

# Domain Name Service

## API Reference

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# Contents

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<b>1 Before You Start.....</b>	<b>1</b>
1.1 Overview.....	1
1.2 API Calling.....	1
1.3 Endpoints.....	1
1.4 Notes and Constraints.....	1
1.5 Concepts.....	2
<b>2 API Overview.....</b>	<b>4</b>
<b>3 Calling APIs.....</b>	<b>7</b>
3.1 Making an API Request.....	7
3.2 Authentication.....	11
3.3 Response.....	13
<b>4 APIs.....</b>	<b>15</b>
4.1 Version Management.....	15
4.1.1 Listing All DNS API Versions.....	15
4.2 Public Zone Management.....	17
4.2.1 Creating a Public Zone.....	17
4.2.2 Querying a Public Zone.....	21
4.2.3 Querying Public Zones.....	23
4.2.4 Querying Name Servers in a Public Zone.....	28
4.2.5 Deleting a Public Zone.....	30
4.2.6 Modifying a Public Zone.....	32
4.3 Private Zone Management.....	35
4.3.1 Creating a Private Zone.....	35
4.3.2 Associating a Private Zone with a VPC.....	40
4.3.3 Disassociating a VPC from a Private Zone.....	42
4.3.4 Querying a Private Zone.....	43
4.3.5 Querying Private Zones.....	46
4.3.6 Querying Name Servers in a Private Zone.....	52
4.3.7 Deleting a Private Zone.....	53
4.3.8 Modifying a Private Zone.....	56
4.4 Record Set Management.....	59
4.4.1 Creating a Record Set.....	59

4.4.2 Querying a Record Set.....	66
4.4.3 Querying All Record Sets.....	69
4.4.4 Querying Record Sets in a Zone.....	77
4.4.5 Deleting a Record Set.....	83
4.4.6 Modifying a Record Set.....	85
4.5 Multi-line Record Set Management.....	91
4.5.1 Creating a Record Set.....	91
4.5.2 Querying a Record Set.....	99
4.5.3 Querying All Record Sets.....	102
4.5.4 Querying Record Sets in a Zone.....	110
4.5.5 Deleting a Record Set.....	117
4.5.6 Modifying a Record Set.....	120
4.6 PTR Record Management.....	126
4.6.1 Creating a PTR Record.....	126
4.6.2 Querying a PTR Record.....	129
4.6.3 Querying All PTR Records.....	131
4.6.4 Unsetting a PTR Record.....	136
4.6.5 Modifying a PTR Record.....	137
4.7 Quota Management.....	139
4.7.1 Querying Resource Quotas.....	139
<b>5 Examples.....</b>	<b>142</b>
5.1 Example 1: Creating a Public Zone.....	142
5.2 Example2: Creating a Private Zone.....	144
<b>6 Appendix.....</b>	<b>147</b>
6.1 Status Code.....	147
6.2 Error Code.....	148
6.3 Enumeration Values.....	170
6.4 Data Structure.....	171
6.5 Obtaining a Project ID.....	173
<b>A Change History.....</b>	<b>174</b>

# 1 Before You Start

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## 1.1 Overview

Welcome to *Domain Name Service API Reference*. Domain Name Service (DNS) is highly available and scalable authoritative domain resolution service that translates domain names like `www.example.com` into IP addresses like `192.1.2.3` required for network connection. The DNS service allows users to visit your websites or web applications with domain names.

This document describes how to use APIs to perform operations such as creating, deleting, querying, or modifying DNS resources. For details about all supported operations, see [API Overview](#).

Before you access DNS by calling APIs, get yourself familiar with DNS concepts. For details, see [Service Overview](#).

## 1.2 API Calling

DNS supports REST APIs that can be called over HTTPS. For details about API calling, see [Calling APIs](#).

## 1.3 Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. For the endpoints of DNS, see [Regions and Endpoints](#).

## 1.4 Notes and Constraints

- The number of DNS resources you can create is determined by quota. To view or increase the quota, see "Quota Adjustment" in the *Domain Name Service User Guide*.
- For more details, see the constraints described in each API.

## 1.5 Concepts

- **Account**

An account is created upon successful registration. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity, which should not be used directly to perform routine management. For security purposes, create Identity and Access Management (IAM) users and grant them permissions for routine management.
- **User**

An IAM user is created by an account in IAM to use cloud services. Each IAM user has its own identity credentials (password and access keys).

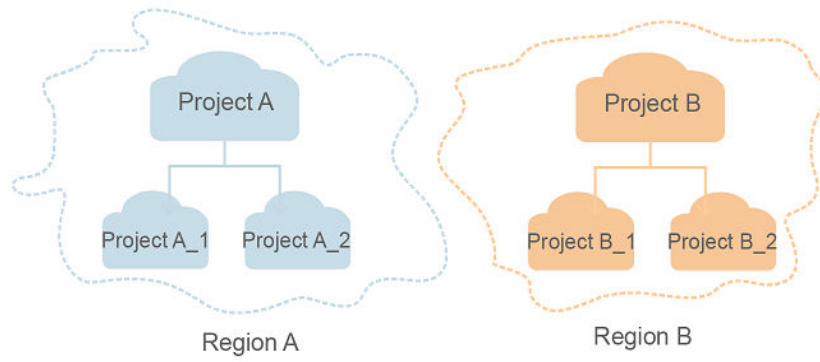
API authentication requires information such as the account name, username, and password.
- **Region**

A region is a geographic area in which cloud resources are deployed. Availability zones (AZs) in the same region can communicate with each other over an intranet, while AZs in different regions are isolated from each other. Deploying cloud resources in different regions can better suit certain user requirements or comply with local laws or regulations.
- **AZ**

An AZ comprises of one or more physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Computing, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to allow you to build cross-AZ high-availability systems.
- **Project**

A project corresponds to a region. Default projects are defined to group and physically isolate resources (including computing, storage, and network resources) across regions. Users can be granted permissions in a default project to access all resources under their accounts in the region associated with the project. If you need more refined access control, create subprojects under a default project and create resources in subprojects. Then you can assign users the permissions required to access only the resources in the specific subprojects.

**Figure 1-1** Project isolation model





# 2 API Overview

The DNS service provides REST APIs.

By calling these APIs, you can use all DNS functions, including creating, querying, modifying, and deleting public zones, private zones, and record sets.

**Table 2-1** provides an overview of the DNS APIs.

**Table 2-1** API overview

Category	Description
Version Management	Query version information of all DNS APIs or a specified API.
Public Zone Management	Create, delete, modify, and query public zones.
Private Zone Management	Create, delete, modify, and query private zones.
Record Set Management	Create, delete, modify, and query record sets in public and private zones.
Multi-line Record Set Management	Create, delete, modify, and query record sets of different resolution lines in public zones.
PTR Record Management	Create, delete, modify, and query PTR records that map EIPs to domain names.
Tag Management	Create, delete, modify, and query tags for specified DNS resources.
Quota Management	Query DNS resource quotas.

## Version Management

Query DNS API versions.

**Table 2-2** Version management APIs

API	Description
<a href="#">Listing All DNS API Versions</a>	Query the versions of all DNS APIs.

## Public Zone Management

Create, query, delete, and modify public zones.

**Table 2-3** Public zone management APIs

API	Description
<a href="#">Creating a Public Zone</a>	Create a public zone.
<a href="#">Querying a Public Zone</a>	Query a public zone.
<a href="#">Querying Public Zones</a>	Query public zones in list.
<a href="#">Querying Name Servers in a Public Zone</a>	Query name servers in a public zone.
<a href="#">Deleting a Public Zone</a>	Delete a public zone.
<a href="#">Modifying a Public Zone</a>	Modify a public zone.

## Private Zone Management

Create, query, delete, and modify private zones.

**Table 2-4** Private zone management APIs

API	Description
<a href="#">Creating a Private Zone</a>	Create a private zone.
<a href="#">Associating a Private Zone with a VPC</a>	Associate a private zone with a VPC.
<a href="#">Disassociating a VPC from a Private Zone</a>	Disassociate a VPC from a private zone.
<a href="#">Querying a Private Zone</a>	Query a private zone.
<a href="#">Querying Private Zones</a>	Query private zones.
<a href="#">Querying Name Servers in a Private Zone</a>	Query name servers in a private zone.
<a href="#">Deleting a Private Zone</a>	Delete a private zone.

API	Description
<a href="#">Modifying a Private Zone</a>	Modify a private zone.

## Record Set Management

Create, query, delete, and modify record sets.

**Table 2-5** Record set management APIs

API	Description
<a href="#">Creating a Record Set</a>	Create a record set.
<a href="#">Querying a Record Set</a>	Query a record set.
<a href="#">Querying All Record Sets</a>	Query record sets.
<a href="#">Querying Record Sets in a Zone</a>	Query record sets in a specified zone.
<a href="#">Deleting a Record Set</a>	Delete a record set.
<a href="#">Modifying a Record Set</a>	Modify a record set.

## PTR Record Management

Set, query, modify, and unset PTR records for EIPs.

**Table 2-6** PTR record management APIs

API	Description
<a href="#">Creating a PTR Record</a>	Configure a PTR record for an EIP.
<a href="#">Querying a PTR Record</a>	Query the PTR record of an EIP.
<a href="#">Querying All PTR Records</a>	Query PTR records of EIPs.
<a href="#">Unsetting a PTR Record</a>	Unset the PTR record to the default value.
<a href="#">Modifying a PTR Record</a>	Modify the PTR record for an EIP.

# 3 Calling APIs

## 3.1 Making an API Request

This section describes the structure of a REST API request, and uses the IAM API for obtaining a user token as an example to demonstrate how to call an API. The obtained token can then be used to authenticate the calling of other APIs.

### Request URI

A request URI is in the following format:

**{URI-scheme}://{Endpoint}/{resource-path}?{query-string}**

Although a request URI is included in the request header, most programming languages or frameworks require the request URI to be transmitted separately.

**Table 3-1** URI parameter description

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from <a href="#">Regions and Endpoints</a> .
resource-path	Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the <b>resource-path</b> of the API used to obtain a user token is <b>/v3/auth/tokens</b> .
query-string	Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of <i>Parameter name=Parameter value</i> . For example, <b>?limit=10</b> indicates that a maximum of 10 data records will be displayed.

 **NOTE**

To simplify the URI display in this document, each API is provided only with a **resource-path** and a request method. The **URI-scheme** of all APIs is **HTTPS**, and the endpoints of all APIs in the same region are identical.

## Request Methods

The HTTP protocol defines the following request methods that can be used to send a request to the server.

**Table 3-2** HTTP methods

Method	Description
GET	Requests the server to return specified resources.
PUT	Requests the server to update specified resources.
POST	Requests the server to add resources or perform special operations.
DELETE	Requests the server to delete specified resources, for example, an object.
HEAD	Same as GET except that the server must return only the response header.
PATCH	Requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created.

For example, in the case of the API used to obtain a user token, the request method is **POST**. The request is as follows:

```
POST https://{{endpoint}}/v3/auth/tokens
```

## Request Header

You can also add additional header fields to a request, such as the fields required by a specified URI or HTTP method. For example, to request for the authentication information, add **Content-Type**, which specifies the request body type.

Common request header fields are as follows.

**Table 3-3** Common request header fields

Parameter	Description	Mandatory	Example Value
Host	Specifies the server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. The value is in the format of <i>Hostname:Port number</i> . If the port number is not specified, the default port is used. The default port number for <b>https</b> is <b>443</b> .	No This field is mandatory for AK/SK authentication.	code.test.com or code.test.com:443
Content-Type	Specifies the type (or format) of the message body. The default value <b>application/json</b> is recommended. Other values of this field will be provided for specific APIs if any.	Yes	application/json
Content-Length	Specifies the length of the request body. The unit is byte.	No	3495
X-Project-Id	Specifies the project ID. Obtain the project ID by following the instructions in <a href="#">Obtaining a Project ID</a> .	No This field is mandatory for requests that use AK/SK authentication in the Dedicated Cloud (DeC) scenario or multi-project scenario.	e9993fc787d94b6c886cbaa340f9c0f4

Parameter	Description	Mandatory	Example Value
X-Auth-Token	<p>Specifies the user token. It is a response to the API for obtaining a user token (This is the only API that does not require authentication).</p> <p>After the request is processed, the value of <b>X-Subject-Token</b> in the response header is the token value.</p>	<p>No</p> <p>This field is mandatory for token authentication.</p>	<p>The following is part of an example token:</p> <p>MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ</p>

 **NOTE**

In addition to supporting authentication using tokens, APIs support authentication using AK/SK, which uses SDKs to sign a request. During the signature, the **Authorization** (signature authentication) and **X-Sdk-Date** (time when a request is sent) headers are automatically added in the request.

For more details, see "Authentication Using AK/SK" in [Authentication](#).

The API used to obtain a user token does not require authentication. Therefore, only the **Content-Type** field needs to be added to requests for calling the API. An example of such requests is as follows:

```
POST https://{{endpoint}}/v3/auth/tokens
Content-Type: application/json
```

### (Optional) Request Body

This part is optional. The body of a request is often sent in a structured format (for example, JSON or XML) as specified in the **Content-Type** header field. The request body transfers content except the request header.

The request body varies between APIs. Some APIs do not require the request body, such as the APIs requested using the GET and DELETE methods.

In the case of the API used to obtain a user token, the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace *username*, *domainname*, *\*\*\*\*\** (login password), and *xxxxxxxxxxxxxxxxxxxx* (project name) with the actual values. Obtain a project name from [Regions and Endpoints](#).

 **NOTE**

The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For more information about this API, see "Obtaining a User Token".

```
POST https://{{endpoint}}/v3/auth/tokens
Content-Type: application/json
```

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username",
          "password": "*****",
          "domain": {
            "name": "domainname"
          }
        }
      }
    },
    "scope": {
      "project": {
        "name": "xxxxxxxxxxxxxxxxxxxxx"
      }
    }
  }
}
```

If all data required for the API request is available, you can send the request to call the API through [curl](#), [Postman](#), or coding. In the response to the API used to obtain a user token, **X-Subject-Token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

## 3.2 Authentication

Requests for calling an API can be authenticated using either of the following methods:

- Token authentication: Requests are authenticated using tokens.
- AK/SK authentication: Requests are encrypted using AK/SK pairs. AK/SK authentication is recommended because it is more secure than token authentication.

### Token Authentication

#### NOTE

The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the IAM API used to obtain a user token.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to requests to get permissions for calling the API. You can obtain a token by calling the Obtaining User Token API.

A cloud service can be deployed as either a project-level service or global service.

- For a project-level service, you need to obtain a project-level token. When you call the API, set **auth.scope** in the request body to **project**.
- For a global service, you need to obtain a global token. When you call the API, set **auth.scope** in the request body to **domain**.

DNS is a project-level service. When you call the API, set **auth.scope** in the request body to **project**.

```
{
  "auth": {
```



```
"identity": {
  "methods": [
    "password"
  ],
  "password": {
    "user": {
      "name": "username",
      "password": "*****",
      "domain": {
        "name": "domainname"
      }
    }
  }
},
"scope": {
  "project": {
    "name": "xxxxxxxx"
  }
}
}
```

After a token is obtained, the **X-Auth-Token** header field must be added to requests to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, **X-Auth-Token: ABCDEFJ....** can be added to a request as follows:

```
POST https://{{endpoint}}/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

## AK/SK Authentication

### NOTE

AK/SK authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token authentication is recommended.

In AK/SK authentication, AK/SK is used to sign requests and the signature is then added to the requests for authentication.

- AK: access key ID, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- SK: secret access key, which is used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

In AK/SK authentication, you can use an AK/SK to sign requests based on the signature algorithm or using the signing SDK. For details about how to sign requests and use the signing SDK, see [API Request Signing Guide](#).

### NOTE

The signing SDK is only used for signing requests and is different from the SDKs provided by services.

## 3.3 Response

### Status Code

After sending a request, you will receive a response, including a status code, response header, and response body.

A status code is a group of digits, ranging from 1xx to 5xx. It indicates the status of a request. For more information, see [Status Code](#).

For example, if status code **201** is returned for calling the API used to obtain a user token, the request is successful.

### Response Header

Similar to a request, a response also has a header, for example, **Content-Type**.

**Figure 3-1** shows the response header fields for the API used to obtain a user token. The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

#### NOTE

For security purposes, you are advised to set the token in ciphertext in configuration files or environment variables and decrypt it when using it.

**Figure 3-1** Header fields of the response to the request for obtaining a user token

```
connection → keep-alive
content-type → application/json
date → Tue, 12 Feb 2019 06:52:13 GMT
server → Web Server
strict-transport-security → max-age=31536000; includeSubdomains;
transfer-encoding → chunked
via → proxy A
x-content-type-options → nosniff
x-download-options → noopen
x-frame-options → SAMEORIGIN
x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5
x-subject-token → [REDACTED]
x3K
xHR
j+Cl
RzT0m0opv0w-0fNt rX0E0k0n0r0m0z0v0w0m0j0u0r0x0y0_
x-xss-protection → 1; mode=block
```

### (Optional) Response Body

The body of a response is often returned in a structured format (for example, JSON or XML) as specified in the **Content-Type** header field. The response body transfers content except the response header.

The following is part of the response body for the API used to obtain a user token.

```
{
  "token": {
    "expires_at": "2019-02-13T06:52:13.855000Z",
    "methods": [
      "password"
    ],
    "catalog": [
      {
        "endpoints": [
          {
            "region_id": "az-01",
            .....

```

If an error occurs during API calling, an error code and a message will be displayed. The following shows an error response body.

```
{
  "error_msg": "Internal error.",
  "error_code": "DNS.0001"
}
```

In the response body, **error\_code** is an error code, and **error\_msg** provides information about the error.

# 4 APIs

---

## 4.1 Version Management

### 4.1.1 Listing All DNS API Versions

#### Function

List all DNS API versions.

To be interconnected with a third-party system, the current DNS version supports 1024- and 2048-bit DH key exchange algorithms, and the 2048-bit algorithm is recommended.

#### URI

GET /

#### Request

- Request parameters  
None
- Example request  
List all DNS API versions.  
GET https://{DNS\_Endpoint}/

#### Response

- Parameter description

**Table 4-1** Parameter in the response

Parameter	Type	Description
versions	Object	Version object. For details, see <a href="#">Table 4-2</a> .

**Table 4-2** Description of the **versions** field

Parameter	Type	Description
values	Array of object	Version list. For details, see <a href="#">Table 4-3</a> .

**Table 4-3** Description of the **values** field

Parameter	Type	Description
status	String	Version status, which can be: <ul style="list-style-type: none"> <li>• <b>CURRENT</b>: widely used version</li> <li>• <b>SUPPORTED</b>: earlier version which is still supported</li> <li>• <b>DEPRECATED</b>: deprecated version which may be deleted later</li> </ul>
id	String	Version number
links	Array of object	URL of the current version. For details, see <a href="#">Table 4-4</a> .

**Table 4-4** Description of the **links** field

Parameter	Type	Description
href	String	Link address
rel	String	Link marker name

- Example response

```

{
  "versions": {
    "values": [
      {
        "status": "CURRENT",
        "id": "v2",
        "links": [
          {
            "href": "https://Endpoint/v2",
            "rel": "self"
          }
        ]
      }
    ]
  }
}

```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.2 Public Zone Management

### 4.2.1 Creating a Public Zone

#### Function

Create a public zone.

#### URI

POST /v2/zones

#### Request

- Parameter description

**Table 4-5** Parameters in the request

Parameter	Mandatory	Type	Description
name	Yes	String	Domain name registered with the domain name registrar <ul style="list-style-type: none"><li>If a domain name is ended with a dot (.), it cannot exceed 254 characters.</li><li>If a domain name is not ended with a dot (.), it cannot exceed 253 characters.</li><li>A domain name cannot exceed 63 characters. Multiple domain names are separated with dots (.).</li></ul> A domain name is case insensitive. Uppercase letters will also be converted into lowercase letters.
description	No	String	Description of the zone, which cannot exceed 255 characters The value is left blank by default.

Parameter	Mandatory	Type	Description
zone_type	No	String	Zone type, which can be <b>public</b> or <b>private</b> <ul style="list-style-type: none"> <li>• <b>public</b>: public zones accessible to hosts on the Internet</li> <li>• <b>private</b>: private zones accessible only to hosts in specified VPCs</li> </ul> If the value is left blank, a public zone will be created. For details about how to create a private zone, see <a href="#">Creating a Private Zone</a> .
email	No	String	Email address of the administrator managing the zone The default value is the service email address.
ttl	No	Integer	Caching period of the SOA record set (in seconds) The value ranges from <b>1</b> to <b>2147483647</b> . The default value is <b>300</b> .
tags	No	Array of object	Resource tag. For details, see <a href="#">Table 4-6</a> . The value is left blank by default.

**Table 4-6** Description of the **tags** field

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.

Parameter	Mandatory	Type	Description
value	No	String	Tag value Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.

- Example request

Create a public zone named **example.com**.

POST `https://{DNS_Endpoint}/v2/zones`

```
{
  "name": "example.com.",
  "description": "This is an example zone.",
  "zone_type": "public",
  "email": "xx@example.org",
  "ttl": 300,
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}
```

## Response

- Parameter description

**Table 4-7** Parameters in the response

Parameter	Type	Description
id	String	Zone ID, which is a UUID used to identify the zone
name	String	Zone name
description	String	Zone description
email	String	Email address of the administrator managing the zone
zone_type	String	Zone type, which can be <b>public</b> or <b>private</b>
ttl	Integer	TTL value of the SOA record set in the zone The value ranges from <b>1</b> to <b>2147483647</b> . The default value is <b>300</b> .



Parameter	Type	Description
serial	Integer	Serial number in the SOA record set in a zone, which identifies the change on the primary DNS server This parameter is not used currently.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
record_num	Integer	Number of record sets in the zone
pool_id	String	Pool ID of the zone, which is assigned by the system
project_id	String	Project ID of the zone
created_at	String	Time when the zone was created The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Time when the zone was updated The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-8</a> .
masters	Array of strings	Master DNS servers, from which the slave servers get DNS information This parameter is not used currently.

**Table 4-8** Description of the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

- Example response

```
{
  "id": "2c9eb155587194ec01587224c9f90149",
  "name": "example.com.",
  "description": "This is an example zone.",
  "email": "xx@example.com",
  "ttl": 300,
  "serial": 1,
  "masters": [],
  "status": "PENDING_CREATE",
  "links": {
```

```

    "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149"
  },
  "pool_id": "00000000570e54ee01570e9939b20019",
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "zone_type": "public",
  "created_at": "2016-11-17T11:56:03.439",
  "updated_at": null,
  "record_num": 0
}

```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.2.2 Querying a Public Zone

### Function

Query a public zone.

### URI

GET /v2/zones/{zone\_id}

For details, see [Table 4-9](#).

**Table 4-9** Parameter in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID You can obtain the value by calling the API in <a href="#">Querying Public Zones</a> .

### Request

- Request parameters  
None
- Example request  
Query the zone whose ID is 2c9eb155587194ec01587224c9f90149:  
GET https://{DNS\_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149

### Response

- Parameter description

**Table 4-10** Parameters in the response

Parameter	Type	Description
id	String	Zone ID, which is a UUID used to identify the zone
name	String	Zone name
description	String	Zone description
email	String	Email address of the administrator managing the zone
zone_type	String	Zone type, which can be <b>public</b> or <b>private</b>
ttl	Integer	TTL value of the SOA record set in the zone The value ranges from <b>1</b> to <b>2147483647</b> . The default value is <b>300</b> .
serial	Integer	Serial number in the SOA record set in a zone, which identifies the change on the primary DNS server This parameter is not used currently.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
record_num	Integer	Number of record sets in the zone
pool_id	String	Pool ID of the zone, which is assigned by the system
project_id	String	Project ID of the zone
created_at	String	Time when the zone was created The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Time when the zone was updated The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-11</a> .
masters	Array of strings	Master DNS servers, from which the slave servers get DNS information This parameter is not used currently.

**Table 4-11** Description of the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

- Example response

```
{
  "id": "2c9eb155587194ec01587224c9f90149",
  "name": "example.com.",
  "description": "This is an example zone.",
  "email": "xx@example.com",
  "ttl": 300,
  "serial": 0,
  "masters": [],
  "status": "ACTIVE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149"
  },
  "pool_id": "00000000570e54ee01570e9939b20019",
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "zone_type": "public",
  "created_at": "2016-11-17T11:56:03.439",
  "updated_at": "2016-11-17T11:56:05.528",
  "record_num": 2
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.2.3 Querying Public Zones

### Function

Query public zones in list.

### URI

GET /v2/zones

For details, see [Table 4-12](#).

**Table 4-12** Parameters in the URI

Parameter	Mandatory	Type	Description
type	No	String	<p>Zone type, which can be <b>public</b> or <b>private</b></p> <ul style="list-style-type: none"> <li>• <b>public</b>: Public zones are queried.</li> <li>• <b>private</b>: Private zones are queried. If the value is left blank, public zones are queried by default.</li> </ul> <p>A fuzzy search will be performed. The value is left blank by default.</p>
marker	No	String	<p>Start resource ID of pagination query. If the parameter is left blank, only resources on the first page are queried.</p>
limit	No	Integer	<p>Number of resources on each page The value ranges from <b>0</b> to <b>500</b>. Commonly used values are <b>10</b>, <b>20</b>, and <b>50</b>. The default value is <b>500</b>.</p>
offset	No	Integer	<p>Start offset of pagination query. The query will start from the next resource of the offset value. The value ranges from <b>0</b> to <b>2147483647</b>. The default value is 0. If <b>marker</b> is not left blank, the query starts from the resource specified by <b>marker</b>.</p>
tags	No	String	<p>Resource tag The format is as follows: <b>key1,value1 key2,value2</b>. Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,). The tags are in AND relationship. Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk. The value is left blank by default.</p>
name	No	String	<p>Zone name A fuzzy search will be performed.</p>
status	No	String	<p>Resource status For details, see <a href="#">Resource Status</a>.</p>

## Request

- Request parameters

None

- Example request

Query the first 10 public zones whose tag is <key1, value1>:

```
GET https://{DNS_Endpoint}/v2/zones?type=public&limit=10&offset=0&tags=key1,value1
```

## Response

- Parameter description

**Table 4-13** Parameters in the response

Parameter	Type	Description
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-16</a> .
zones	Array of object	Zone list. For details, see <a href="#">Table 4-14</a> .
metadata	Object	Total number of resources that meet the filter criteria. For details, see <a href="#">Table 4-15</a> .

**Table 4-14** Description of the **zones** field

Parameter	Type	Description
id	String	Zone ID, which is a UUID used to identify the zone
name	String	Zone name
description	String	Zone description
email	String	Email address of the administrator managing the zone
zone_type	String	Zone type, which can be <b>public</b> or <b>private</b>
ttd	Integer	TTL value of the SOA record set in the zone The value ranges from <b>1</b> to <b>2147483647</b> . The default value is <b>300</b> .

Parameter	Type	Description
serial	Integer	Serial number in the SOA record set in a zone, which identifies the change on the primary DNS server This parameter is not used currently.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
record_num	Integer	Number of record sets in the zone
pool_id	String	Pool ID of the zone, which is assigned by the system
project_id	String	Project ID of the zone
created_at	String	Time when the zone was created The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Time when the zone was updated The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
links	Object	Link to the current resource or other related resources When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-16</a> .
tags	Array of <b>tag</b> objects	Resource tag. The format is as follows: <b>key1,value1 key2,value2</b> . Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,). The tags are in AND relationship. For details about resource tags, see <a href="#">Table 4-17</a> . Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk. The value is left blank by default.
masters	Array of strings	Master DNS servers, from which the slave servers get DNS information This parameter is not used currently.

**Table 4-15** Description of the **metadata** field

Parameter	Type	Description
total_count	Integer	Number of resources that meet the filter criteria. The number is irrelevant to <b>limit</b> or <b>offset</b> .

**Table 4-16** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

**Table 4-17** Description of the **tag** field

Parameter	Type	Description
key	String	Tag key A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.
value	String	Tag value Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.

- Example response

```
{
  "links": {
    "self": "https://Endpoint/v2/zones?type=public&limit=11",
    "next": "https://Endpoint/v2/zones?type=public&limit=11&marker=2c9eb155587194ec01587224c9f90149"
  },
  "zones": [
    {
      "id": "2c9eb155587194ec01587224c9f90149",
      "name": "example.com.",
      "description": "This is an example zone.",
      "email": "xx@example.com",

```



```
    "ttl": 300,
    "serial": 0,
    "masters": [],
    "status": "ACTIVE",
    "links": {
      "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149"
    },
    "pool_id": "00000000570e54ee01570e9939b20019",
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
    "zone_type": "public",
    "created_at": "2016-11-17T11:56:03.439",
    "updated_at": "2016-11-17T11:56:05.528",
    "record_num": 2
  },
  {
    "id": "2c9eb155587228570158722996c50001",
    "name": "example.org.",
    "description": "This is an example zone.",
    "email": "xx@example.org",
    "ttl": 300,
    "serial": 0,
    "masters": [],
    "status": "PENDING_CREATE",
    "links": {
      "self": "https://Endpoint/v2/zones/2c9eb155587228570158722996c50001"
    },
    "pool_id": "00000000570e54ee01570e9939b20019",
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
    "zone_type": "public",
    "created_at": "2016-11-17T12:01:17.996",
    "updated_at": "2016-11-17T12:01:18.528",
    "record_num": 2
  }
],
"metadata": {
  "total_count": 2
}
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.2.4 Querying Name Servers in a Public Zone

### Function

Query name servers in a public zone.

### URI

GET /v2/zones/{zone\_id}/nameservers

For details, see [Table 4-18](#).

**Table 4-18** Parameter in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID You can obtain the value by calling the API in <a href="#">Querying Public Zones</a> .

## Request

- Request parameters

None

- Example request

Query name servers of the zone whose ID is 2c9eb155587194ec01587224c9f90149:

```
GET https://{DNS_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149/nameservers
```

## Response

- Parameter description

**Table 4-19** Parameter in the response

Parameter	Type	Description
nameservers	Array of object	Name server list. For details, see <a href="#">Table 4-20</a> .

**Table 4-20** Description of the **nameservers** field

Parameter	Type	Description
hostname	String	Host name of a name server
priority	Integer	Priority of a name server For example, if the priority of a name server is <b>1</b> , it is used to resolve domain names in first priority.

- Example response

```
{
  "nameservers": [
    {
      "hostname": "ns1.example.com.",
      "priority": 1
    },
    {
      "hostname": "ns2.example.com.",
      "priority": 2
    }
  ]
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.2.5 Deleting a Public Zone

### Function

Delete a public zone.

### URI

DELETE /v2/zones/{zone\_id}

For details, see [Table 4-21](#).

**Table 4-21** Parameter in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID You can obtain the value by calling the API in <a href="#">Querying Public Zones</a> .

### Request

- Request parameters

None

- Example request

Delete the zone whose ID is 2c9eb155587194ec01587224c9f90149:

```
DELETE https://{DNS_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149
```

### Response

- Parameter description

**Table 4-22** Parameters in the response

Parameter	Type	Description
id	String	Zone ID, which is a UUID used to identify the zone
name	String	Zone name
description	String	Zone description

Parameter	Type	Description
email	String	Email address of the administrator managing the zone
zone_type	String	Zone type, which can be <b>public</b> or <b>private</b>
ttl	Integer	TTL value of the SOA record set in the zone The value ranges from <b>1</b> to <b>2147483647</b> . The default value is <b>300</b> .
serial	Integer	Serial number in the SOA record set in a zone, which identifies the change on the primary DNS server This parameter is not used currently.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
record_num	Integer	Number of record sets in the zone
pool_id	String	Pool ID of the zone, which is assigned by the system
project_id	String	Project ID of the zone
created_at	String	Time when the zone was created The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Time when the zone was updated The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-23</a> .
masters	Array of strings	Master DNS servers, from which the slave servers get DNS information This parameter is not used currently.

**Table 4-23** Description of the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

- Example response

```
{
  "id": "2c9eb155587194ec01587224c9f90149",
  "name": "example.com.",
  "description": "This is an example zone.",
  "email": "xx@example.com",
  "ttl": 300,
  "serial": 1,
  "masters": [],
  "status": "PENDING_DELETE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149"
  },
  "pool_id": "00000000570e54ee01570e9939b20019",
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "zone_type": "public",
  "created_at": "2016-11-17T11:56:03.439",
  "updated_at": "2016-11-17T11:56:05.057",
  "record_num": 0
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.2.6 Modifying a Public Zone

### Function

Modify a public zone.

### URI

PATCH /v2/zones/{zone\_id}

For details, see [Table 4-24](#).

**Table 4-24** Parameter in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	ID of the zone to be modified You can obtain the value by calling the API in <a href="#">Querying Public Zones</a> .

### Request

- Parameter description

**Table 4-25** Parameters in the request

Parameter	Mandatory	Type	Description
description	No	String	Description of the zone, which cannot exceed 255 characters If this parameter is left blank, the value will not be changed. The value is left blank by default.
email	No	String	Email address of the administrator managing the zone If this parameter is left blank, the value will not be changed. The value is left blank by default.
ttl	No	Integer	Caching period of the SOA record set (in seconds) The value range from <b>300</b> to <b>2147483647</b> . If this parameter is left blank, the value will not be changed. The value is left blank by default.

- Example request

Modify the zone whose ID is 2c9eb155587194ec01587224c9f90149:

```
PATCH https://{DNS_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149
{
  "description": "This is an example zone.",
  "email": "xx@example.org",
  "ttl": 300
}
```

## Response

- Parameter description

**Table 4-26** Parameters in the response

Parameter	Type	Description
id	String	Zone ID, which is a UUID used to identify the zone
name	String	Zone name
description	String	Zone description
email	String	Email address of the administrator managing the zone
zone_type	String	Zone type, which can be <b>public</b> or <b>private</b>

Parameter	Type	Description
ttl	Integer	TTL value of the SOA record set in the zone The value ranges from <b>1</b> to <b>2147483647</b> . The default value is <b>300</b> .
serial	Integer	Serial number in the SOA record set in a zone, which identifies the change on the primary DNS server This parameter is not used currently.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
record_num	Integer	Number of record sets in the zone
pool_id	String	Pool ID of the zone, which is assigned by the system
project_id	String	Project ID of the zone
created_at	String	Time when the zone was created The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Time when the zone was updated The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-27</a> .
masters	Array of strings	Master DNS servers, from which the slave servers get DNS information This parameter is not used currently.

**Table 4-27** Description of the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

- Example response

```
{
  "id": "2c9eb155587194ec01587224c9f90149",
  "name": "example.com.",
  "description": "This is an example zone.",
  "email": "xx@example.com",
```

```
"ttl": 300,  
"serial": 1,  
"masters": [],  
"status": "ACTIVE",  
"links": {  
  "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149"  
},  
"pool_id": "00000000570e54ee01570e9939b20019",  
"project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",  
"zone_type": "public",  
"created_at": "2016-11-17T11:56:03.439",  
"updated_at": "2016-11-17T11:56:05.749",  
"record_num": 2  
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.3 Private Zone Management

### 4.3.1 Creating a Private Zone

#### Function

Create a private zone.

#### URI

POST /v2/zones

#### Request

- Parameter description



**Table 4-28** Parameters in the request

Parameter	Mandatory	Type	Description
name	Yes	String	<p>Domain name of the zone to be created</p> <ul style="list-style-type: none"> <li>• If a domain name is ended with a dot (.), it cannot exceed 254 characters.</li> <li>• Otherwise, the domain name cannot exceed 253 characters.</li> <li>• A domain name cannot exceed 63 characters. Multiple domain names are separated with dots (.).</li> </ul> <p>A domain name is case insensitive. Uppercase letters will also be converted into lowercase letters.</p>
description	No	String	<p>Description of the domain name, which cannot exceed 255 characters</p> <p>The value is left blank by default.</p>
zone_type	Yes	String	<p>Zone type</p> <p>The value must be <b>private</b>, indicating private zones accessible only to hosts in specified VPCs will be created.</p> <p>For details about creating a public zone, see section <a href="#">Creating a Public Zone</a>.</p>
email	No	String	<p>Email address of the administrator managing the zone</p> <p>The default value is the service email address.</p>
ttl	No	Integer	<p>Caching period of the SOA record set (in seconds)</p> <p>The value ranges from <b>300</b> to <b>2147483647</b>.</p> <p>The default value is <b>300</b>.</p>
router	Yes	Object	<p>Router information (VPC associated with the private zone)</p> <p>For details, see <a href="#">Table 4-29</a>.</p>
tags	No	Array of object	<p>Resource tag. For details, see <a href="#">Table 4-30</a>.</p> <p>The value is left blank by default.</p>

**Table 4-29** Description of the **router** field

Parameter	Mandatory	Type	Description
router_id	Yes	String	ID of the associated VPC
router_region	No	String	Region of the VPC If it is left blank, the region of the project in the token takes effect by default.

**Table 4-30** Description of the **tags** field

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.
value	No	String	Tag value Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.

- Example request

Create a private zone named **example.com**.

POST https://{DNS\_Endpoint}/v2/zones

```
{
  "name": "example.com.",
  "description": "This is an example zone.",
  "zone_type": "private",
  "email": "xx@example.org",
  "router": {
    "router_id": "19664294-0bf6-4271-ad3a-94b8c79c6558",
    "router_region": "xx"
  },
  "tags": [
    {
```

```

    "key": "key1",
    "value": "value1"
  }
]
}

```

## Response

- Parameter description

**Table 4-31** Parameters in the response

Parameter	Type	Description
id	String	Zone ID, which is a UUID used to identify the zone
name	String	Zone name
description	String	Zone description
email	String	Email address of the administrator managing the zone
zone_type	String	Zone type, which can be <b>public</b> or <b>private</b>
ttl	Integer	TTL value of the SOA record set in the zone The value ranges from <b>300</b> to <b>2147483647</b> . The default value is <b>300</b> .
serial	Integer	Serial number in the SOA record set in a zone, which identifies the change on the primary DNS server This parameter is not used currently.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
record_num	Integer	Number of record sets in the zone
pool_id	String	Pool ID of the zone, which is assigned by the system
project_id	String	Project ID of the zone
created_at	String	Time when the zone was created The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Time when the zone was updated The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.

Parameter	Type	Description
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-32</a> .
masters	Array of strings	Master DNS servers, from which the slave servers get DNS information This parameter is not used currently.
router	Object	Information about the VPC associated with the zone. For details, see <a href="#">Table 4-33</a> .

**Table 4-32** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

**Table 4-33** Description of the **router** field

Parameter	Type	Description
status	String	Resource status For details, see <a href="#">Resource Status</a> .
router_id	String	Router ID (VPC ID)
router_region	String	Region of the VPC

- Example response

```
{
  "id": "ff8080825b8fc86c015b94bc6f8712c3",
  "name": "example.com.",
  "description": "This is an example zone.",
  "email": "xx@example.com",
  "ttl": 300,
  "serial": 1,
  "masters": [],
  "status": "PENDING_CREATE",
  "links": {
    "self": "https://Endpoint/v2/zones/ff8080825b8fc86c015b94bc6f8712c3"
  },
  "pool_id": "ff8080825ab738f4015ab7513298010e",
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "zone_type": "private",
  "created_at": "2017-04-22T08:17:08.997",
  "updated_at": null,
  "record_num": 0,
}
```

```
"router": {
  "status": "PENDING_CREATE",
  "router_id": "19664294-0bf6-4271-ad3a-94b8c79c6558",
  "router_region": "xx"
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.3.2 Associating a Private Zone with a VPC

### Function

Associate a private zone with a VPC.

### URI

POST /v2/zones/{zone\_id}/associaterouter

For details, see [Table 4-34](#).

**Table 4-34** Parameter in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID You can obtain the value by calling the API in <a href="#">Querying Private Zones</a> .

### Request

- Parameter description

**Table 4-35** Parameters in the request

Parameter	Mandatory	Type	Description
router	Yes	Object	Router information (VPC associated with the zone) For details, see <a href="#">Table 4-36</a> .

**Table 4-36** Description of the **router** field

Parameter	Mandatory	Type	Description
router_id	Yes	String	ID of the associated VPC
router_region	No	String	Region of the VPC If it is left blank, the region of the project in the token takes effect by default.

- Example request

Associate the zone whose ID is ff8080825b8fc86c015b94bc6f8712c3 with a VPC:

POST `https://{DNS_Endpoint}/v2/zones/ff8080825b8fc86c015b94bc6f8712c3/associaterouter`

```
{
  "router": {
    "router_id": "f0791650-db8c-4a20-8a44-a06c6e24b15b",
    "router_region": "xx"
  }
}
```

## Response

- Parameter description

**Table 4-37** Parameters in the response

Parameter	Type	Description
router_id	String	Router ID (VPC ID)
router_region	String	Region of the VPC
status	String	Resource status For details, see <a href="#">Resource Status</a> .

- Example response

```
{
  "status": "PENDING_CREATE",
  "router_id": "f0791650-db8c-4a20-8a44-a06c6e24b15b",
  "router_region": "xx"
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.3.3 Disassociating a VPC from a Private Zone

### Function

Disassociate a VPC from a private zone.

When a private zone is associated with only one VPC, you cannot disassociate it.

### URI

POST /v2/zones/{zone\_id}/disassociaterouter

For details, see [Table 4-38](#).

**Table 4-38** Parameter in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID You can obtain the value by calling the API in <a href="#">Querying Private Zones</a> .

### Request

- Parameter description

**Table 4-39** Parameter in the request

Parameter	Mandatory	Type	Description
router	Yes	Object	Router information (VPC associated with the zone) For details, see <a href="#">Table 4-40</a> .

**Table 4-40** Description of the **router** field

Parameter	Mandatory	Type	Description
router_id	Yes	String	ID of the associated VPC
router_region	No	String	Region of the VPC If it is left blank, the region of the project in the token takes effect by default.

- Example request  
Disassociate a VPC from the zone whose ID is ff8080825b8fc86c015b94bc6f8712c3:

```
POST https://{DNS_Endpoint}/v2/zones/ff8080825b8fc86c015b94bc6f8712c3/
disassociaterouter
{
  "router": {
    "router_id": "f0791650-db8c-4a20-8a44-a06c6e24b15b",
    "router_region": "xx"
  }
}
```

## Response

- Parameter description

**Table 4-41** Parameters in the response

Parameter	Type	Description
router_id	String	Router ID (VPC ID)
router_region	String	Region of the router (VPC)
status	String	Resource status For details, see <a href="#">Resource Status</a> .

- Example response

```
{
  "status": "PENDING_DELETE",
  "router_id": "f0791650-db8c-4a20-8a44-a06c6e24b15b",
  "router_region": "xx"
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.3.4 Querying a Private Zone

### Function

Query a private zone.

### URI

GET /v2/zones/{zone\_id}

For details, see [Table 4-42](#).



**Table 4-42** Parameter in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID You can obtain the value by calling the API in <a href="#">Querying Private Zones</a> .

## Request

- Request parameters  
None
- Example request  
Query the zone whose ID is ff8080825b8fc86c015b94bc6f8712c3:  
GET https://{DNS\_Endpoint}/v2/zones/ff8080825b8fc86c015b94bc6f8712c3

## Response

- Parameter description

**Table 4-43** Parameters in the response

Parameter	Type	Description
id	String	Zone ID, which is a UUID used to identify the zone
name	String	Zone name
description	String	Zone description
email	String	Email address of the administrator managing the zone
zone_type	String	Zone type, which can be <b>public</b> or <b>private</b>
ttl	Integer	TTL value of the SOA record set in the zone The value ranges from <b>300</b> to <b>2147483647</b> . The default value is <b>300</b> .
serial	Integer	Serial number in the SOA record set in a zone, which identifies the change on the primary DNS server This parameter is not used currently.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
record_num	Integer	Number of record sets in the zone
pool_id	String	Pool ID of the zone, which is assigned by the system

Parameter	Type	Description
project_id	String	Project ID of the zone
created_at	String	Time when the zone was created The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Time when the zone was updated The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-44</a> .
masters	Array of strings	Master DNS servers, from which the slave servers get DNS information This parameter is not used currently.
routers	Array of object	Routers (VPCs associated with the zone). For details, see <a href="#">Table 4-45</a> .

**Table 4-44** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

**Table 4-45** Description of the **routers** field

Parameter	Type	Description
status	String	Resource status For details, see <a href="#">Resource Status</a> .
router_id	String	ID of the associated VPC
router_region	String	Region of the VPC If it is left blank, the region of the project in the token takes effect by default.

- Example response

```
{
  "id": "ff8080825b8fc86c015b94bc6f8712c3",
  "name": "example.com.",
```

```

"description": "This is an example zone.",
"email": "xx@example.com",
"ttl": 300,
"serial": 0,
"masters": [],
"status": "ACTIVE",
"links": {
  "self": "https://Endpoint/v2/zones/ff8080825b8fc86c015b94bc6f8712c3"
},
"pool_id": "ff8080825ab738f4015ab7513298010e",
"project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
"zone_type": "private",
"created_at": "2017-04-22T08:17:08.997",
"updated_at": "2017-04-22T08:17:09.997",
"record_num": 2,
"routers": [
  {
    "status": "ACTIVE",
    "router_id": "19664294-0bf6-4271-ad3a-94b8c79c6558",
    "router_region": "xx"
  },
  {
    "status": "ACTIVE",
    "router_id": "f0791650-db8c-4a20-8a44-a06c6e24b15b",
    "router_region": "xx"
  }
]
}

```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.3.5 Querying Private Zones

### Function

Query private zones in list.

### URI

GET /v2/zones

For details, see [Table 4-46](#).

**Table 4-46** Parameters in the URI

Parameter	Mandatory	Type	Description
type	Yes	String	Zone type The value is <b>private</b> , indicating that private zones are queried.

Parameter	Mandatory	Type	Description
marker	No	String	Start resource ID of pagination query If the parameter is left blank, only resources on the first page are queried. The value is left blank by default.
limit	No	Integer	Number of resources on each page The value ranges from <b>0</b> to <b>500</b> . Commonly used values are <b>10</b> , <b>20</b> , and <b>50</b> . The default value is <b>500</b> .
offset	No	Integer	Start offset of pagination query. The query will start from the next resource of the offset value. The value ranges from <b>0</b> to <b>2147483647</b> . The default value is <b>0</b> . If <b>marker</b> is not left blank, the query starts from the resource specified by <b>marker</b> .
tags	No	String	Resource tag The format is as follows: <b>key1,value1 key2,value2</b> . Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,). The tags are in AND relationship. The value is left blank by default.
name	No	String	Zone name A fuzzy search will be performed.
status	No	String	Resource status For details, see <a href="#">Resource Status</a> .

## Request

- Request parameters  
None
- Example request

Query the first 10 private zones whose tag is <key1, value1>:

```
GET https://{DNS_Endpoint}/v2/zones?type=private&limit=10&offset=0&tags=key1,value1
```

## Response

- Parameter description

**Table 4-47** Parameters in the response

Parameter	Type	Description
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-50</a> .
zones	Array of object	Zone list. For details, see <a href="#">Table 4-48</a> .
metadata	Object	Total number of resources that meet the filter criteria. For details, see <a href="#">Table 4-49</a> .

**Table 4-48** Description of the **zones** field

Parameter	Type	Description
id	String	Zone ID, which is a UUID used to identify the zone
name	String	Zone name
description	String	Zone description
email	String	Email address of the administrator managing the zone
zone_type	String	Zone type, which can be <b>public</b> or <b>private</b>
ttl	Integer	TTL value of the SOA record set in the zone The value ranges from <b>300</b> to <b>2147483647</b> . The default value is <b>300</b> .
serial	Integer	Serial number in the SOA record set in a zone, which identifies the change on the primary DNS server This parameter is not used currently.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
record_num	Integer	Number of record sets in the zone
pool_id	String	Pool ID of the zone, which is assigned by the system

Parameter	Type	Description
project_id	String	Project ID of the zone
created_at	String	Time when the zone was created The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Time when the zone was updated The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-50</a> .
tags	Array of <b>tag</b> objects	Resource tag. The format is as follows: <b>key1,value1 key2,value2</b> . Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,). The tags are in AND relationship. For details, see <a href="#">Table 4-51</a> . Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk. The value is left blank by default.
masters	Array of strings	Master DNS servers, from which the slave servers get DNS information This parameter is not used currently.
routers	Array of object	Routers (VPCs associated with the zone). For details, see <a href="#">Table 4-52</a> .

**Table 4-49** Description of the **metadata** field

Parameter	Type	Description
total_count	Integer	Number of resources that meet the filter criteria. The number is irrelevant to <b>limit</b> or <b>offset</b> .

**Table 4-50** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

**Table 4-51** Description of the **tag** field

Parameter	Type	Description
key	String	Tag key A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.
value	String	Tag value Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.

**Table 4-52** Description of the **routers** field

Parameter	Type	Description
status	String	Resource status For details, see <a href="#">Resource Status</a> .
router_id	String	ID of the associated VPC
router_region	String	Region of the VPC If it is left blank, the region of the project in the token takes effect by default.

- Example response

```
{
  "links": {
    "self": "https://Endpoint/v2/zones?type=private&limit=11",
    "next": "https://Endpoint/v2/zones?
type=private&limit=11&marker=ff8080825b8fc86c015b94bc6f8712c3"
  },
  "zones": [
    {
```

```

    "id": "ff8080825b8fc86c015b94bc6f8712c3",
    "name": "example.com.",
    "description": "This is an example zone.",
    "email": "xx@example.com",
    "ttl": 300,
    "serial": 0,
    "masters": [],
    "status": "ACTIVE",
    "links": {
      "self": "https://Endpoint/v2/zones/ff8080825b8fc86c015b94bc6f8712c3"
    },
    "pool_id": "ff8080825ab738f4015ab7513298010e",
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
    "zone_type": "private",
    "created_at": "2017-04-22T08:17:08.997",
    "updated_at": "2017-04-22T08:17:09.997",
    "record_num": 2,
    "routers": [
      {
        "status": "ACTIVE",
        "router_id": "19664294-0bf6-4271-ad3a-94b8c79c6558",
        "router_region": "xx"
      },
      {
        "status": "ACTIVE",
        "router_id": "f0791650-db8c-4a20-8a44-a06c6e24b15b",
        "router_region": "xx"
      }
    ]
  },
  {
    "id": "ff8080825b95142f015b951f87280029",
    "name": "example.org.",
    "description": "This is an example zone.",
    "email": "xx@example.org",
    "ttl": 300,
    "serial": 0,
    "masters": [],
    "status": "ACTIVE",
    "links": {
      "self": "https://Endpoint/v2/zones/ff8080825b95142f015b951f87280029"
    },
    "pool_id": "ff8080825ab738f4015ab7513298010e",
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
    "zone_type": "private",
    "created_at": "2017-04-22T08:17:08.997",
    "updated_at": "2017-04-22T08:17:09.997",
    "record_num": 2,
    "routers": [
      {
        "status": "ACTIVE",
        "router_id": "19664294-0bf6-4271-ad3a-94b8c79c6558",
        "router_region": "xx"
      },
      {
        "status": "ACTIVE",
        "router_id": "f0791650-db8c-4a20-8a44-a06c6e24b15b",
        "router_region": "xx"
      }
    ]
  }
],
"metadata": {
  "total_count": 2
}
}

```



## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.3.6 Querying Name Servers in a Private Zone

### Function

Query name servers in a private zone.

### URI

GET /v2/zones/{zone\_id}/nameservers

For details, see [Table 4-53](#).

**Table 4-53** Parameter in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID You can obtain the value by calling the API in <a href="#">Querying Private Zones</a> .

### Request

- Request parameters

None

- Example request

Query name servers of the zone whose ID is ff8080825b8fc86c015b94bc6f8712c3:

```
GET https://{DNS_Endpoint}/v2/zones/ff8080825b8fc86c015b94bc6f8712c3/nameservers
```

### Response

- Parameter description

**Table 4-54** Parameter in the response

Parameter	Type	Description
nameservers	Array of object	Name server list object For details, see <a href="#">Table 4-55</a> .

**Table 4-55** Description of the `nameservers` field

Parameter	Type	Description
address	String	IP address of a DNS server
priority	Integer	Priority of a name server For example, if the priority of a name server is <b>1</b> , it is used to resolve domain names in first priority.

- Example response

```
{
  "nameservers": [
    {
      "priority": 1,
      "address": "100.125.0.81"
    },
    {
      "priority": 2,
      "address": "100.125.0.82"
    }
  ]
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.3.7 Deleting a Private Zone

### Function

Delete a private zone.

### URI

DELETE /v2/zones/{zone\_id}

For details, see [Table 4-56](#).

**Table 4-56** Parameters in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID You can obtain the value by calling the API in <a href="#">Querying Private Zones</a> .

## Request

- Request parameters

None

- Example request

Delete the zone whose ID is ff8080825b8fc86c015b94bc6f8712c3:

```
DELETE https://{DNS_Endpoint}/v2/zones/ff8080825b8fc86c015b94bc6f8712c3
```

## Response

- Parameter description

**Table 4-57** Parameters in the response

Parameter	Type	Description
id	String	Zone ID, which is a UUID used to identify the zone
name	String	Zone name
description	String	Zone description
email	String	Email address of the administrator managing the zone
zone_type	String	Zone type, which can be <b>public</b> or <b>private</b>
ttl	Integer	TTL value of the SOA record set in the zone The value ranges from <b>300</b> to <b>2147483647</b> . The default value is <b>300</b> .
serial	Integer	Serial number in the SOA record set in a zone, which identifies the change on the primary DNS server This parameter is not used currently.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
record_num	Integer	Number of record sets in the zone
pool_id	String	Pool ID of the zone, which is assigned by the system
project_id	String	Project ID of the zone
created_at	String	Time when the zone was created The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Time when the zone was updated The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.

Parameter	Type	Description
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-58</a> .
masters	Array of strings	Master DNS servers, from which the slave servers get DNS information This parameter is not used currently.
routers	Array of object	Routers (VPCs associated with the zone). For details, see <a href="#">Table 4-59</a> .

**Table 4-58** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource

**Table 4-59** Description of the **routers** field

Parameter	Type	Description
status	String	Resource status For details, see <a href="#">Resource Status</a> .
router_id	String	ID of the associated VPC
router_region	String	Region of the VPC If it is left blank, the region of the project in the token takes effect by default.

- Example response

```
{
  "id": "ff8080825b8fc86c015b94bc6f8712c3",
  "name": "example.com.",
  "description": "This is an example zone.",
  "email": "xx@example.com",
  "ttl": 300,
  "serial": 1,
  "masters": [],
  "status": "PENDING_DELETE",
  "links": {
    "self": "https://Endpoint/v2/zones/ff8080825b8fc86c015b94bc6f8712c3"
  },
  "pool_id": "ff8080825ab738f4015ab7513298010e",
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "zone_type": "private",
  "created_at": "2017-04-22T10:05:23.110",
  "updated_at": "2017-04-22T10:05:23.959",
  "record_num": 0,
}
```

```

"routers": [
  {
    "status": "ACTIVE",
    "router_id": "19664294-0bf6-4271-ad3a-94b8c79c6558",
    "router_region": "xx"
  },
  {
    "status": "ACTIVE",
    "router_id": "f0791650-db8c-4a20-8a44-a06c6e24b15b",
    "router_region": "xx"
  }
]

```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.3.8 Modifying a Private Zone

### Function

Modify a private zone.

### URI

PATCH /v2/zones/{zone\_id}

For details, see [Table 4-60](#).

**Table 4-60** Parameters in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	ID of the zone to be modified You can obtain the value by calling the API in <a href="#">Querying Private Zones</a> .

### Request

- Parameter description

**Table 4-61** Parameters in the request

Parameter	Mandatory	Type	Description
description	No	String	Description of the zone, which cannot exceed 255 characters If this parameter is left blank, the value will not be changed. The value is left blank by default.
email	No	String	Email address of the administrator managing the zone If this parameter is left blank, the value will not be changed. The value is left blank by default.
ttl	No	Integer	Caching period of the SOA record set (in seconds) The value ranges from <b>300</b> to <b>2147483647</b> . If this parameter is left blank, the value will not be changed. The value is left blank by default.

- Example request

Modify the zone whose ID is 2c9eb155587194ec01587224c9f90149:

```
PATCH https://{DNS_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149
{
  "description": "This is an example zone.",
  "email": "xx@example.org",
  "ttl": 300
}
```

## Response

- Parameter description

**Table 4-62** Parameters in the response

Parameter	Type	Description
id	String	Zone ID, which is a UUID used to identify the zone
name	String	Zone name
description	String	Zone description
email	String	Email address of the administrator managing the zone
zone_type	String	Zone type, which can be <b>public</b> or <b>private</b>

Parameter	Type	Description
ttl	Integer	TTL value of the SOA record set in the zone The value ranges from <b>300</b> to <b>2147483647</b> . The default value is <b>300</b> .
serial	Integer	Serial number in the SOA record set in a zone, which identifies the change on the primary DNS server This parameter is not used currently.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
record_num	Integer	Number of record sets in the zone
pool_id	String	Pool ID of the zone, which is assigned by the system
project_id	String	Project ID of the zone
created_at	String	Time when the zone was created The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Time when the zone was updated The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.
links	Object	Link to the current resource or other related resources.  When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-63</a> .
masters	Array of strings	Master DNS servers, from which the slave servers get DNS information This parameter is not used currently.
routers	Array of object	Information about the VPC associated with the zone. For details, see <a href="#">Table 4-64</a> .

**Table 4-63** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource

**Table 4-64** Description of the **routers** field

Parameter	Type	Description
status	String	Resource status For details, see <a href="#">Resource Status</a> .
router_id	String	ID of the associated VPC
router_region	String	Region of the VPC If it is left blank, the region of the project in the token takes effect by default.

- Example response

```
{
  "id": "ff8080825b8fc86c015b94bc6f8712c3",
  "name": "example.com.",
  "description": "This is an example zone.",
  "email": "xx@example.com",
  "ttl": 300,
  "serial": 1,
  "masters": [],
  "status": "ACTIVE",
  "links": {
    "self": "https://Endpoint/v2/zones/ff8080825b8fc86c015b94bc6f8712c3"
  },
  "pool_id": "ff8080825ab738f4015ab7513298010e",
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "zone_type": "private",
  "created_at": "2017-04-22T08:17:08.997",
  "updated_at": "2017-04-22T08:17:10.849",
  "record_num": 2,
  "routers": [
    {
      "status": "ACTIVE",
      "router_id": "19664294-0bf6-4271-ad3a-94b8c79c6558",
      "router_region": "xx"
    }
  ]
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.4 Record Set Management

### 4.4.1 Creating a Record Set

#### Function

Create a record set.



## URI

POST /v2/zones/{zone\_id}/recordsets

For details, see [Table 4-65](#).

**Table 4-65** Parameters in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID Obtain the public zone ID according to <a href="#">Querying Public Zones</a> . Obtain the private zone ID according to <a href="#">Querying Private Zones</a> .

## Request

- Parameter description

**Table 4-66** Parameters in the request

Parameter	Mandatory	Type	Description
name	Yes	String	Fully qualified domain name (FQDN) suffixed with a zone name, which is a complete host name ended with a dot A domain name is case insensitive. Uppercase letters will also be converted into lowercase letters.
description	No	String	(Optional) Description of the domain name The value cannot exceed 255 characters. The value is left blank by default.
type	Yes	String	Record set type The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> (only in public zones), <b>SRV</b> , <b>CAA</b> (only in public zones), and <b>PTR</b> (only in private zones). For details, see <a href="#">Record Set Type</a> .

Parameter	Mandatory	Type	Description
ttl	No	Integer	Caching period of the record set on a local DNS server If your service address is frequently changed, set TTL to a smaller value. Value range: <ul style="list-style-type: none"> <li>Public zone: <b>1-2147483647</b></li> <li>Private zone: <b>300-2147483647</b></li> </ul> The default value is <b>300</b> .
records	Yes	Array of strings	Value of the record set. The value format varies depending on record set types. For example, the value of an AAAA record set is the IPv6 address list mapped to the domain name.
tags	No	Array of object	Resource tag. For details, see <a href="#">Table 4-67</a> . The value is left blank by default.

**Table 4-67** Description of the **tags** field

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.

Parameter	Mandatory	Type	Description
value	No	String	Tag value Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.

- Example request

Add record sets for the zone whose ID is  
2c9eb155587194ec01587224c9f90149:

POST [https://{DNS\\_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets](https://{DNS_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets)

- A type

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 3600,
  "records": [
    "192.168.10.1",
    "192.168.10.2"
  ],
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}
```

- AAAA type

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "AAAA",
  "ttl": 3600,
  "records": [
    "fe80:0:0:0:202:b3ff:fe1e:8329",
    "ff03:0db8:85a3:0:0:8a2e:0370:7334"
  ],
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}
```

- MX type

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "MX",
  "ttl": 3600,
  "records": [
```

```

    "1 mail.example.com"
  ],
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}

```

- CNAME type

```

{
  "name": "sale.example.com.",
  "description": "This is an example record set.",
  "type": "CNAME",
  "ttl": 3600,
  "records": [
    "server1.example.com"
  ],
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}

```

- TXT type

```

{
  "name": "server1.example.com.",
  "description": "This is an example record set.",
  "type": "TXT",
  "ttl": 300,
  "records": [
    "\"This host is used for sale.\""
  ],
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}

```

- NS type

```

{
  "name": "server1.example.com.",
  "description": "This is an example record set.",
  "type": "NS",
  "ttl": 300,
  "records": [
    "node1.example.com.",
    "node2.example.com."
  ],
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}

```

- SRV type

```

{
  "name": "_sip_tcp.example.com.",
  "description": "This is an example record set.",
  "type": "SRV",
  "ttl": 300,
  "records": [
    "3 60 2176 sipserver.example.com.",
    "10 100 2176 sipserver.example.com."
  ]
}

```

```

    ],
    "tags": [
      {
        "key": "key1",
        "value": "value1"
      }
    ]
  }
}

```

– PTR type

```

{
  "name": "1.1.168.192.in-addr.arpa.",
  "description": "This is an example record set.",
  "type": "PTR",
  "ttl": 300,
  "records": [
    "webserver.example.com."
  ],
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}

```

– CAA type

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "CAA",
  "ttl": 300,
  "records": [
    "0 issue \"example.com\"",
    "0 issuewild \"www.certinomis.com\"",
    "0 iodef \"mailto:xx@example.org\"",
    "0 iodef \"http://iodef.example.com\""
  ],
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}

```

## Response

- Parameter description

**Table 4-68** Parameters in the response

Parameter	Type	Description
id	String	Record set ID
name	String	Record set name
description	String	Record set description
zone_id	String	Zone ID of the record set
zone_name	String	Zone name of the record set

Parameter	Type	Description
type	String	Record set type The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> (only in public zones), <b>SRV</b> , <b>CAA</b> (only in public zones), and <b>PTR</b> (only in private zones). For details, see <a href="#">Record Set Type</a> .
ttl	Integer	Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect. If your service address is frequently changed, set TTL to a smaller value. Value range: <ul style="list-style-type: none"> <li>Public zone: <b>1–2147483647</b></li> <li>Private zone: <b>300–2147483647</b></li> </ul> The default value is <b>300</b> .
records	Array of strings	Record set value
create_at	String	Time when the record set was created The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.
update_at	String	Time when the record set was updated The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
default	Boolean	Whether the record set is created by default. A default record set cannot be deleted.
project_id	String	Project ID of the record set
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-69</a> .

**Table 4-69** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

- Example response

```
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 300,
  "records": [
    "192.168.10.1",
    "192.168.10.2"
  ],
  "status": "PENDING_CREATE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
  },
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
  "create_at": "2016-11-17T12:03:17.827",
  "update_at": null,
  "default": false,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.4.2 Querying a Record Set

### Function

Query a record set.

### URI

GET /v2/zones/{zone\_id}/recordsets/{recordset\_id}

For details, see [Table 4-70](#).

**Table 4-70** Parameters in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID Obtain the public zone ID according to <a href="#">Querying Public Zones</a> . Obtain the private zone ID according to <a href="#">Querying Private Zones</a> .
recordset_id	Yes	String	Record set ID You can obtain the value by calling the API in <a href="#">Querying Record Sets in a Zone</a> .

## Request

- Request parameters  
None
- Example request

Query the record set whose ID is 2c9eb155587228570158722b6ac30007 in the zone whose ID is 2c9eb155587194ec01587224c9f90149:

```
GET https://{DNS_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007
```

## Response

- Parameter description

**Table 4-71** Parameters in the response

Parameter	Type	Description
id	String	Record set ID
name	String	Record set name
description	String	Record set description
zone_id	String	Zone ID of the record set
zone_name	String	Zone name of the record set
type	String	Record set type The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> , <b>SOA</b> , <b>SRV</b> , <b>CAA</b> (only in public zones), or <b>PTR</b> (only in private zones). For details, see <a href="#">Record Set Type</a> .



Parameter	Type	Description
ttl	Integer	Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect. If your service address is frequently changed, set TTL to a smaller value. Value range: <ul style="list-style-type: none"> <li>Public zone: <b>1-2147483647</b></li> <li>Private zone: <b>300-2147483647</b></li> </ul> The default value is <b>300</b> .
records	Array of strings	Record set value
create_at	String	Time when the record set was created The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.
update_at	String	Time when the record set was updated The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
default	Boolean	Whether the record set is created by default A default record set cannot be deleted.
project_id	String	Project ID of the record set
links	Object	Link to the current resource or other related resources When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-72</a> .

**Table 4-72** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

- Example response

```
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 300,
  "records": [
    "192.168.10.2",
    "192.168.10.1"
  ],
  "status": "PENDING_CREATE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
  },
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
  "create_at": "2016-11-17T12:03:17.827",
  "update_at": "2016-11-17T12:03:18.827",
  "default": false,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.4.3 Querying All Record Sets

### Function

Query record sets in list.

### URI

GET /v2/recordsets

For details, see [Table 4-73](#).

**Table 4-73** Parameters in the URI

Parameter	Mandatory	Type	Description
zone_type	No	String	<p>Zone type of the record set to be queried, which can be <b>public</b> or <b>private</b></p> <ul style="list-style-type: none"> <li>• <b>public</b>: Record sets in public zones are queried.</li> <li>• <b>private</b>: Record sets in private zones are queried.</li> </ul> <p>If the value is left blank, record sets in public zones are queried by default.</p> <p>A fuzzy search will be performed. The default value is <b>public</b>.</p>
marker	No	String	<p>Start resource ID of pagination query</p> <p>If the parameter is left blank, only resources on the first page are queried.</p> <p>The value is left blank by default.</p>
limit	No	Integer	<p>Number of resources on each page</p> <p>The value ranges from <b>0</b> to <b>500</b>.</p> <p>Commonly used values are <b>10</b>, <b>20</b>, and <b>50</b>. The default value is <b>500</b>.</p>
offset	No	Integer	<p>Start offset of pagination query. The query will start from the next resource of the offset value.</p> <p>The value ranges from <b>0</b> to <b>2147483647</b>.</p> <p>The default value is <b>0</b>.</p> <p>If <b>marker</b> is not left blank, the query starts from the resource specified by <b>marker</b>.</p>

Parameter	Mandatory	Type	Description
tags	No	String	<p>Resource tag</p> <p>The format is as follows: <b>key1,value1 key2,value2</b>.</p> <p>Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,).</p> <p>The tags are in AND relationship.</p> <p>Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk.</p> <p>The value is left blank by default.</p>
status	No	String	<p>Status of the record sets to be queried</p> <p>The value can be <b>ACTIVE, ERROR, DISABLE, FREEZE, PENDING_CREATE, PENDING_UPDATE, or PENDING_DELETE</b>.</p> <p>For details, see <a href="#">Resource Status</a>.</p> <p>A fuzzy search will be performed.</p> <p>The value is left blank by default.</p>
type	No	String	<p>Type of the record sets to be queried</p> <p>The value can be <b>A, AAAA, MX, CNAME, TXT, NS, SOA, SRV, CAA</b> (only in public zones), or <b>PTR</b> (only in private zones).</p> <p>For details, see <a href="#">Record Set Type</a>.</p> <p>Exact matching will work.</p> <p>The value is left blank by default.</p>
name	No	String	<p>Names of record sets to be queried</p> <p>A fuzzy search will be performed.</p> <p>The value is left blank by default.</p>
id	No	String	<p>IDs of record sets to be queried</p> <p>A fuzzy search will be performed.</p> <p>The value is left blank by default.</p>
records	No	String	<p>Value included in the values of record sets to be queried</p> <p>A fuzzy search will be performed.</p> <p>The value is left blank by default.</p>

Parameter	Mandatory	Type	Description
sort_key	No	String	Sorting condition of the record set list The value can be: <ul style="list-style-type: none"> <li>• <b>name</b>: domain name</li> <li>• <b>type</b>: record set type</li> </ul> The default value is left blank, indicating that the records are not sorted.
sort_dir	No	String	Sorting order of the record set list The value can be: <ul style="list-style-type: none"> <li>• <b>desc</b>: descending order</li> <li>• <b>asc</b>: ascending order</li> </ul> The default value is left blank, indicating that the records are not sorted.

## Request

- Request parameters  
None
- Example request  
Query A record sets whose name contains **www.example.com** in private zones:  
GET https://{DNS\_Endpoint}/v2/recordsets?  
zone\_type=private&type=A&name=www.example.com

## Response

- Parameter description

**Table 4-74** Parameters in the response

Parameter	Type	Description
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-77</a> .
recordsets	Array of object	Record set list object. For details, see <a href="#">Table 4-75</a> .
metadata	Object	Total number of resources that meet the filter criteria. For details, see <a href="#">Table 4-76</a> .

**Table 4-75** Description of the **recordsets** field

Parameter	Type	Description
id	String	Record set ID
name	String	Record set name
description	String	Record set description
zone_id	String	Zone ID of the record set
zone_name	String	Zone name of the record set
type	String	Record set type The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> , <b>SOA</b> , <b>SRV</b> , <b>CAA</b> (only in public zones), or <b>PTR</b> (only in private zones). For details, see <a href="#">Record Set Type</a> .
ttl	Integer	Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect. If your service address is frequently changed, set TTL to a smaller value. Value range: <ul style="list-style-type: none"> <li>Public zone: <b>1–2147483647</b></li> <li>Private zone: <b>300–2147483647</b></li> </ul> The default value is <b>300</b> .
records	Array of strings	Record set value
create_at	String	Time when the record set was created The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.
update_at	String	Time when the record set was updated The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
default	Boolean	Whether the record set is created by default A default record set cannot be deleted.

Parameter	Type	Description
project_id	String	Project ID of the record set
links	Object	<p>Link to the current resource or other related resources</p> <p>When a response is broken into pages, a <b>next</b> link is provided to retrieve all results.</p> <p>For details, see <a href="#">Table 4-77</a>.</p>
tags	Array of <b>tag</b> objects	<p>Resource tag.</p> <p>The format is as follows: <b>key1,value1 key2,value2</b>.</p> <p>Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,).</p> <p>The tags are in AND relationship.</p> <p>For details, see <a href="#">Table 4-78</a>.</p> <p>Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk.</p> <p>It is left blank by default.</p>

**Table 4-76** Description of the **metadata** field

Parameter	Type	Description
total_count	Integer	Number of resources that meet the filter criteria. The number is irrelevant to <b>limit</b> or <b>offset</b> .

**Table 4-77** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

**Table 4-78** Description of the **tag** field

Parameter	Type	Description
key	String	Tag key A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.
value	String	Tag value Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.

- Example response

```
{
  "links": {
    "self": "https://Endpoint/v2/recordsets",
    "next": "https://Endpoint/v2/recordsets?
id=&limit=11&marker=2c9eb155587194ec01587224c9f9014a"
  },
  "recordsets": [
    {
      "id": "2c9eb155587194ec01587224c9f9014a",
      "name": "example.com.",
      "type": "SOA",
      "ttl": 300,
      "records": [
        "ns1.hotrot.de. xx.example.com. (1 7200 900 1209600 300)"
      ],
      "status": "ACTIVE",
      "links": {
        "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/
2c9eb155587194ec01587224c9f9014a"
      },
      "zone_id": "2c9eb155587194ec01587224c9f90149",
      "zone_name": "example.com.",
      "create_at": "2016-11-17T11:56:03.439",
      "update_at": "2016-11-17T11:56:03.827",
      "default": true,
      "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
    },
    {
      "id": "2c9eb155587194ec01587224c9f9014c",
      "name": "example.com.",
      "type": "NS",
      "ttl": 172800,
      "records": [
        "ns2.hotrot.de.",
        "ns1.hotrot.de."
      ],
      "status": "ACTIVE",
      "links": {
        "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/
```



```

2c9eb155587194ec01587224c9f9014c"
  },
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
  "create_at": "2016-11-17T11:56:03.439",
  "update_at": "2016-11-17T11:56:03.827",
  "default": true,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
},
{
  "id": "2c9eb155587228570158722996ca0002",
  "name": "example.org.",
  "type": "SOA",
  "ttl": 300,
  "records": [
    "ns1.hotrot.de. xx.example.org. (1 7200 900 1209600 300)"
  ],
  "status": "ACTIVE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587228570158722996c50001/recordsets/
2c9eb155587228570158722996ca0002"
  },
  "zone_id": "2c9eb155587228570158722996c50001",
  "zone_name": "example.org.",
  "create_at": "2016-11-17T12:01:17.996",
  "update_at": "2016-11-17T12:56:03.827",
  "default": true,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
},
{
  "id": "2c9eb155587228570158722996ca0004",
  "name": "example.org.",
  "type": "NS",
  "ttl": 172800,
  "records": [
    "ns2.hotrot.de.",
    "ns1.hotrot.de."
  ],
  "status": "ACTIVE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587228570158722996c50001/recordsets/
2c9eb155587228570158722996ca0004"
  },
  "zone_id": "2c9eb155587228570158722996c50001",
  "zone_name": "example.org.",
  "create_at": "2016-11-17T12:01:17.996",
  "update_at": "2016-11-17T12:56:03.827",
  "default": true,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
},
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 300,
  "records": [
    "192.168.10.2",
    "192.168.10.1"
  ],
  "status": "ACTIVE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/
2c9eb155587228570158722b6ac30007"
  },
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
  "create_at": "2016-11-17T12:03:17.827",
  "update_at": "2016-11-17T12:56:03.827",

```

```

        "default": false,
        "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
    }
],
"metadata": {
    "total_count": 5
}
}

```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.4.4 Querying Record Sets in a Zone

### Function

Query all record sets in a specified zone.

### URI

GET /v2/zones/{zone\_id}/recordsets

For details, see [Table 4-79](#).

**Table 4-79** Parameters in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID Obtain the public zone ID according to <a href="#">Querying Public Zones</a> . Obtain the private zone ID according to <a href="#">Querying Private Zones</a> .
marker	No	String	Start resource ID of pagination query If the parameter is left blank, only resources on the first page are queried.
limit	No	Integer	Number of resources on each page The value ranges from <b>0</b> to <b>500</b> . Commonly used values are <b>10</b> , <b>20</b> , and <b>50</b> . The default value is <b>500</b> .

Parameter	Mandatory	Type	Description
offset	No	Integer	<p>Start offset of pagination query. The query will start from the next resource of the offset value.</p> <p>The value ranges from <b>0</b> to <b>2147483647</b>.</p> <p>The default value is <b>0</b>.</p> <p>If <b>marker</b> is not left blank, the query starts from the resource specified by <b>marker</b>.</p>
tags	No	String	<p>Resource tag</p> <p>The format is as follows: <b>key1,value1 key2,value2</b>.</p> <p>Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,).</p> <p>The tags are in AND relationship.</p> <p>Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk.</p> <p>The value is left blank by default.</p>
status	No	String	<p>Status of the record sets to be queried</p> <p>The value can be <b>ACTIVE, ERROR, DISABLE, FREEZE, PENDING_CREATE, PENDING_UPDATE, or PENDING_DELETE</b>.</p> <p>For details, see <a href="#">Resource Status</a>.</p> <p>A fuzzy search will be performed.</p> <p>The value is left blank by default.</p>
type	No	String	<p>Type of the record sets to be queried</p> <p>The value can be <b>A, AAAA, MX, CNAME, TXT, NS, SOA, SRV, CAA</b> (only in public zones), or <b>PTR</b> (only in private zones).</p> <p>For details, see <a href="#">Record Set Type</a>.</p> <p>Exact matching will work.</p> <p>The value is left blank by default.</p>
name	No	String	<p>Name of record sets to be queried</p> <p>A fuzzy search will be performed.</p> <p>The value is left blank by default.</p>

Parameter	Mandatory	Type	Description
id	No	String	ID of record sets to be queried A fuzzy search will be performed. The value is left blank by default.
sort_key	No	String	Sorting condition of the record set list The value can be: <ul style="list-style-type: none"> <li>• <b>name</b>: domain name</li> <li>• <b>type</b>: record set type</li> </ul> The default value is left blank, indicating that the records are not sorted.
sort_dir	No	String	Sorting order of the record set list The value can be: <ul style="list-style-type: none"> <li>• <b>desc</b>: descending order</li> <li>• <b>asc</b>: ascending order</li> </ul> The default value is left blank, indicating that the records are not sorted.

## Request

- Request parameters  
None
- Example request

Query record sets in the zone whose ID is 2c9eb155587194ec01587224c9f90149:

```
GET https://{DNS_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets?limit=&offset=
```

## Response

- Parameter description

**Table 4-80** Parameters in the response

Parameter	Type	Description
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-83</a> .
recordsets	Array of object	Record set list object. For details, see <a href="#">Table 4-81</a> .

Parameter	Type	Description
metadata	Object	Total number of resources that meet the filter criteria. For details, see <a href="#">Table 4-82</a> .

**Table 4-81** Description of the **recordsets** field

Parameter	Type	Description
id	String	Record set ID
name	String	Record set name
description	String	Record set description
zone_id	String	Zone ID of the record set
zone_name	String	Zone name of the record set
type	String	Record set type The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> , <b>SOA</b> , <b>SRV</b> , <b>CAA</b> (only in public zones), or <b>PTR</b> (only in private zones). For details, see <a href="#">Record Set Type</a> .
ttl	Integer	Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect. If your service address is frequently changed, set TTL to a smaller value. Value range: <ul style="list-style-type: none"> <li>Public zone: <b>1–2147483647</b></li> <li>Private zone: <b>300–2147483647</b></li> </ul> The default value is <b>300</b> .
records	Array of strings	Record set value
create_at	String	Time when the record set was created The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.
update_at	String	Time when the record set was updated The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.

Parameter	Type	Description
status	String	Resource status For details, see <a href="#">Resource Status</a> .
default	Boolean	Whether the record set is created by default. A default record set cannot be deleted.
project_id	String	Project ID of the record set
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-83</a> .

**Table 4-82** Description of the **metadata** field

Parameter	Type	Description
total_count	Integer	Number of resources that meet the filter criteria. The number is irrelevant to <b>limit</b> or <b>offset</b> .

**Table 4-83** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

- Example response

```
{
  "links": {
    "self": "https://Endpoint/v2/recordsets?
limit=1&marker=&name=&status=&zone_id=2c9eb155587194ec01587224c9f90149",
    "next": "https://Endpoint/v2/recordsets?
limit=11&marker=2c9eb155587194ec01587224c9f9014a&name=&status=&zone_id=2c9eb155587194ec
01587224c9f90149"
  },
  "recordsets": [
    {
      "id": "2c9eb155587194ec01587224c9f9014a",
      "name": "example.com.",
      "type": "SOA",
      "ttl": 300,
      "records": [
        "ns1.hotrot.de. xx.example.com. (1 7200 900 1209600 300)"
      ]
    }
  ]
}
```

```
    "status": "ACTIVE",
    "links": {
      "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587194ec01587224c9f9014a"
    },
    "zone_id": "2c9eb155587194ec01587224c9f90149",
    "zone_name": "example.com.",
    "create_at": "2016-11-17T11:56:03.439",
    "update_at": "2016-11-17T12:56:03.827",
    "default": true,
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
  },
  {
    "id": "2c9eb155587194ec01587224c9f9014c",
    "name": "example.com.",
    "type": "NS",
    "ttl": 172800,
    "records": [
      "ns2.hotrot.de.",
      "ns1.hotrot.de."
    ],
    "status": "ACTIVE",
    "links": {
      "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587194ec01587224c9f9014c"
    },
    "zone_id": "2c9eb155587194ec01587224c9f90149",
    "zone_name": "example.com.",
    "create_at": "2016-11-17T11:56:03.439",
    "update_at": "2016-11-17T12:56:03.827",
    "default": true,
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
  },
  {
    "id": "2c9eb155587228570158722b6ac30007",
    "name": "www.example.com.",
    "description": "This is an example record set.",
    "type": "A",
    "ttl": 300,
    "records": [
      "192.168.10.2",
      "192.168.10.1"
    ],
    "status": "PENDING_CREATE",
    "links": {
      "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
    },
    "zone_id": "2c9eb155587194ec01587224c9f90149",
    "zone_name": "example.com.",
    "create_at": "2016-11-17T12:03:17.827",
    "update_at": "2016-11-17T12:56:03.827",
    "default": false,
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
  }
],
"metadata": {
  "total_count": 3
}
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.4.5 Deleting a Record Set

### Function

Delete a record set.

### URI

DELETE /v2/zones/{zone\_id}/recordsets/{recordset\_id}

For details, see [Table 4-84](#).

**Table 4-84** Parameters in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID Obtain the public zone ID according to <a href="#">Querying Public Zones</a> . Obtain the private zone ID according to <a href="#">Querying Private Zones</a> .
recordset_id	Yes	String	ID of the record set to be deleted You can obtain the value by calling the API in <a href="#">Querying Record Sets in a Zone</a> .

### Request

- Request parameters  
None
- Example request  
Delete the record set whose ID is 2c9eb155587228570158722b6ac30007 in the zone whose ID is 2c9eb155587194ec01587224c9f90149:  
DELETE https://{DNS\_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007

### Response

- Parameter description

**Table 4-85** Parameters in the response

Parameter	Type	Description
id	String	Record set ID
name	String	Record set name
description	String	Record set description



Parameter	Type	Description
zone_id	String	Zone ID of the record set
zone_name	String	Zone name of the record set
type	String	Record set type The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> (only in public zones), <b>SRV</b> , <b>CAA</b> (only in public zones), and <b>PTR</b> (only in private zones). For details, see <a href="#">Record Set Type</a> .
ttl	Integer	Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect. If your service address is frequently changed, set TTL to a smaller value. Value range: <ul style="list-style-type: none"> <li>Public zone: <b>1–2147483647</b></li> <li>Private zone: <b>300–2147483647</b></li> </ul> The default value is <b>300</b> .
records	Array of strings	Record set value
create_at	String	Time when the record set was created The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.
update_at	String	Time when the record set was updated The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.
status	String	Resource status For details, see <a href="#">Resource Status</a> .
default	Boolean	Whether the record set is created by default. A default record set cannot be deleted.
project_id	String	Project ID of the record set

Parameter	Type	Description
links	Object	Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-86</a> .

**Table 4-86** Parameters in the **links** field

Parameter	Type	Description
self	String	Link to the current resource
next	String	Link to the next page

- Example response

```
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 300,
  "status": "PENDING_DELETE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
  },
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
  "create_at": "2016-11-17T12:03:17.827",
  "update_at": "2016-11-17T12:56:03.827",
  "default": false,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.4.6 Modifying a Record Set

### Function

Modify a record set.

### URI

PUT /v2/zones/{zone\_id}/recordsets/{recordset\_id}

For details, see [Table 4-87](#).

**Table 4-87** Parameters in the URI

Parameter	Mandatory	Type	Description
zone_id	Yes	String	Zone ID Obtain the public zone ID according to <a href="#">Querying Public Zones</a> . Obtain the private zone ID according to <a href="#">Querying Private Zones</a> .
recordset_id	Yes	String	ID of the record set to be modified You can obtain the value by calling the API in <a href="#">Querying Record Sets in a Zone</a> .

## Request

- Parameter description

**Table 4-88** Parameters in the request

Parameter	Mandatory	Type	Description
name	Yes	String	Fully qualified domain name (FQDN) suffixed with a zone name, which is a complete host name ended with a dot If it is a record set in a public zone, you can add five labels at most. A domain name is case insensitive. Uppercase letters will also be converted into lowercase letters.
description	No	String	(Optional) Description of the domain name The value cannot exceed 255 characters. If this parameter is left blank, the value will not be changed. The value is left blank by default.

Parameter	Mandatory	Type	Description
type	Yes	String	Record set type The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> (only in public zones), <b>SRV</b> , <b>CAA</b> (only in public zones), and <b>PTR</b> (only in private zones). For details, see <a href="#">Record Set Type</a> .
ttl	No	Integer	Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect. If your service address is frequently changed, set TTL to a smaller value. Value range: <ul style="list-style-type: none"> <li>Public zone: <b>1–2147483647</b></li> <li>Private zone: <b>300–2147483647</b></li> </ul> If this parameter is left blank, the value will not be changed. The value is left blank by default.
records	No	Array of strings	Value of the record set. The value format varies depending on record set types. For example, the value of an AAAA record set is the IPv6 address list mapped to the domain name.

- Example request

Modify the record set whose ID is 2c9eb155587228570158722b6ac30007 in the zone whose ID is 2c9eb155587194ec01587224c9f90149:

PUT [https://{DNS\\_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007](https://{DNS_Endpoint}/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007)

- A type

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 3600,
  "records": [
```

- ```

    "192.168.10.1",
    "192.168.10.2"
  ]
}

```
- AAAA type
 

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "AAAA",
  "ttl": 3600,
  "records": [
    "fe80:0:0:0:202:b3ff:fe1e:8329",
    "ff03:0db8:85a3:0:0:8a2e:0370:7334"
  ]
}

```
  - MX type
 

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "MX",
  "ttl": 3600,
  "records": [
    "1 mail.example.com"
  ]
}

```
  - CNAME type
 

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "CNAME",
  "ttl": 3600,
  "records": [
    "server1.example.com"
  ]
}

```
  - TXT type
 

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "TXT",
  "ttl": 300,
  "records": [
    "\"This host is used for sale.\""
  ]
}

```
  - NS type
 

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "NS",
  "ttl": 300,
  "records": [
    "node1.example.com.",
    "node2.example.com."
  ]
}

```
  - SRV type
 

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "SRV",
  "ttl": 3600,
  "records": [
    "3 60 2176 sipserver.example.com.",
    "10 100 2176 sipserver.example.com."
  ]
}

```

```

    ]
  }
- PTR type
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "PTR",
  "ttl": 3600,
  "records": [
    "host.example.com."
  ]
}
- CAA type
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "CAA",
  "ttl": 300,
  "records": [
    "0 issue \"example.com\"",
    "0 issuewild \"www.certinomis.com\"",
    "0 iodef \"mailto:xx@example.org\"",
    "0 iodef \"http://iodef.example.com\""
  ]
}

```

## Response

- Parameter description

**Table 4-89** Parameters in the response

| Parameter   | Type   | Description                                                                                                                                                                                                                                                                          |
|-------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id          | String | Record set ID                                                                                                                                                                                                                                                                        |
| name        | String | Record set name                                                                                                                                                                                                                                                                      |
| description | String | Record set description                                                                                                                                                                                                                                                               |
| zone_id     | String | Zone ID of the record set                                                                                                                                                                                                                                                            |
| zone_name   | String | Zone name of the record set                                                                                                                                                                                                                                                          |
| type        | String | Record set type<br>The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> (only in public zones), <b>SRV</b> , <b>CAA</b> (only in public zones), and <b>PTR</b> (only in private zones).<br>For details, see <a href="#">Record Set Type</a> . |

| Parameter  | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ttl        | Integer          | Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect.<br>If your service address is frequently changed, set TTL to a smaller value.<br>Value range: <ul style="list-style-type: none"> <li>Public zone: <b>1–2147483647</b></li> <li>Private zone: <b>300–2147483647</b></li> </ul> The default value is <b>300</b> . |
| records    | Array of strings | Record set value                                                                                                                                                                                                                                                                                                                                                                              |
| create_at  | String           | Time when the record set was created<br>The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.                                                                                                                                                                                                                                                                                                        |
| update_at  | String           | Time when the record set was updated<br>The value format is yyyy-MM-dd'T'HH:mm:ss.SSS.                                                                                                                                                                                                                                                                                                        |
| status     | String           | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                                                                                                                                                                                                         |
| default    | Boolean          | Whether the record set is created by default. A default record set cannot be deleted.                                                                                                                                                                                                                                                                                                         |
| project_id | String           | Project ID of the record set                                                                                                                                                                                                                                                                                                                                                                  |
| links      | Object           | Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results.<br>For details, see <a href="#">Table 4-90</a> .                                                                                                                                                                                       |

**Table 4-90** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |

- Example response

```
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 3600,
  "records": [
    "192.168.10.1",
    "192.168.10.2"
  ],
  "status": "PENDING_UPDATE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
  },
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
  "create_at": "2016-11-17T12:03:17.827",
  "update_at": "2016-11-17T12:56:03.827",
  "default": false,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.5 Multi-line Record Set Management

### 4.5.1 Creating a Record Set

#### Function

Create a record set.

#### NOTE

The DNS service allows you to create multi-line record sets only in public zones.

#### URI

POST /v2.1/zones/{zone\_id}/recordsets

For details, see [Table 4-91](#).



**Table 4-91** Parameters in the URI

| Parameter | Mandatory | Type   | Description                                                                                                                         |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------|
| zone_id   | Yes       | String | Zone ID. Only public zones are supported.<br>You can obtain the value by calling the API in <a href="#">Querying Public Zones</a> . |

## Request

- Parameter description

**Table 4-92** Parameters in the request

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                         |
|-------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name        | Yes       | String | Fully qualified domain name (FQDN) suffixed with a zone name, which is a complete host name ended with a dot<br>A domain name is case insensitive. Uppercase letters will also be converted into lowercase letters. |
| description | No        | String | (Optional) Description of the domain name, which cannot exceed 255 characters<br>The value is left blank by default.                                                                                                |
| type        | Yes       | String | Record set type<br>The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> , <b>SRV</b> , or <b>CAA</b> .<br>For details, see <a href="#">Record Set Type</a> .                 |

| Parameter | Mandatory | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status    | No        | String           | <p>Status of the record set</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>● <b>ENABLE</b>: The record set will be enabled.</li> <li>● <b>DISABLE</b>: The record set will be disabled.</li> </ul> <p>If the value is left empty, the status of the record set depends on the status of the domain name:</p> <ul style="list-style-type: none"> <li>● The status of the record set will be set to <b>Enable</b> if the status of the zone is <b>ACTIVE</b>.</li> <li>● The status of the record set will be set to <b>Disabled</b> if the status of the zone is <b>Disabled</b>.</li> </ul> |
| ttl       | No        | Integer          | <p>Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect.</p> <p>If your service address is frequently changed, set TTL to a smaller value.</p> <p>Value range:</p> <ul style="list-style-type: none"> <li>● Public zone: <b>1-2147483647</b></li> <li>● Private zone: <b>300-2147483647</b></li> </ul> <p>The default value is <b>300</b>.</p>                                                                                                                                                                                           |
| records   | No        | Array of strings | <p>Value of the record set. The value format varies depending on record set types.</p> <p>For example, the value of an AAAA record set is the IPv6 address list mapped to the domain name.</p> <p>When an alias record is used, this parameter is not required.</p>                                                                                                                                                                                                                                                                                                                                              |
| line      | No        | String           | <p>Resolution line ID.</p> <p>The default value is the default line.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| tags      | No        | Array of object  | <p>Resource tag. For details, see <a href="#">Table 4-93</a>.</p> <p>The value is left blank by default.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Parameter    | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| weight       | No        | Integer | <p>Weight of the record set</p> <ul style="list-style-type: none"> <li>• If this value is left blank, the default value <b>1</b> takes effect.</li> <li>• If <b>weight</b> is set to <b>0</b>, the record set is a secondary one.</li> <li>• If <b>weight</b> is larger than 0, the record set is a primary one.</li> </ul> <p>The value ranges from <b>0</b> to <b>1000</b>. You can create a maximum of 20 record sets with the same name, type, and resolution line but different weight values.</p> |
| alias_target | No        | Object  | <p>Domain name alias. For details, see <a href="#">Table 4-94</a>.</p> <p>The value is left blank by default.</p>                                                                                                                                                                                                                                                                                                                                                                                       |

**Table 4-93** Description of the **tags** field

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                             |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | <p>Tag key</p> <p>A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (&lt;), right angle brackets (&gt;), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.</p>            |
| value     | No        | String | <p>Tag value</p> <p>Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (&lt;), right angle brackets (&gt;), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.</p> |

**Table 4-94** Description of the `alias_target` field

| Parameter                         | Mandatory | Type   | Description                                                                                                                                                              |
|-----------------------------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>resource_type</code>        | No        | String | Service that support domain name aliases<br>The value can be: <ul style="list-style-type: none"> <li>● <b>cloudsite</b>: CloudSite</li> <li>● <b>waf</b>: WAF</li> </ul> |
| <code>resource_domain_name</code> | No        | String | Domain name of the target service                                                                                                                                        |

- Example request

Add record sets for the zone whose ID is  
2c9eb155587194ec01587224c9f90149:

POST [https://{{DNS\\_Endpoint}}/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets](https://{{DNS_Endpoint}}/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets)

- A type

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 3600,
  "records": [
    "192.168.10.1",
    "192.168.10.2"
  ],
  "line": "default_view",
  "weight": 1,
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}
```

- AAAA type

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "AAAA",
  "ttl": 3600,
  "records": [
    "fe80:0:0:202:b3ff:fe1e:8329",
    "ff03:0db8:85a3:0:0:8a2e:0370:7334"
  ],
  "line": "default_view",
  "weight": 1,
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}
```

- MX type

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "MX",
```

```

"ttl": 3600,
"records": [
  "1 mail.example.com"
],
"line": "default_view",
"weight": 1,
"tags": [
  {
    "key": "key1",
    "value": "value1"
  }
]
}

```

- CNAME type

```

{
  "name": "sale.example.com.",
  "description": "This is an example record set.",
  "type": "CNAME",
  "ttl": 3600,
  "records": [
    "server1.example.com"
  ],
  "line": "default_view",
  "weight": 1,
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}

```

- TXT type

```

{
  "name": "server1.example.com.",
  "description": "This is an example record set.",
  "type": "TXT",
  "ttl": 300,
  "records": [
    "\"This host is used for sale.\""
  ],
  "line": "default_view",
  "weight": 1,
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}

```

- NS type

```

{
  "name": "server1.example.com.",
  "description": "This is an example record set.",
  "type": "NS",
  "ttl": 300,
  "records": [
    "node1.example.com.",
    "node2.example.com."
  ],
  "line": "default_view",
  "weight": 1,
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}

```

– SRV type

```
{
  "name": "_sip_tcp.example.com.",
  "description": "This is an example record set.",
  "type": "SRV",
  "ttl": 300,
  "records": [
    "3 60 2176 sipserver.example.com.",
    "10 100 2176 sipserver.example.com."
  ],
  "line": "default_view",
  "weight": 1,
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}
```

– CAA type

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "CAA",
  "ttl": 300,
  "records": [
    "0 issue \"example.com\"",
    "0 issuewild \"www.certinomis.com\"",
    "0 iodef \"mailto:xx@example.org\"",
    "0 iodef \"http://iodef.example.com\""
  ],
  "line": "default_view",
  "weight": 1,
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}
```

– A type (alias)

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 3600,
  "alias_target": {
    "resource_type": "cloudsite",
    "resource_domain_name": "2018122211053616ucavdwdh.cname.yujianzhan.cn."
  }
}
```

## Response

- Parameter description

**Table 4-95** Parameters in the response

| Parameter   | Type   | Description            |
|-------------|--------|------------------------|
| id          | String | Record set ID          |
| name        | String | Record set name        |
| description | String | Record set description |

| Parameter       | Type             | Description                                                                                                                                                                                                 |
|-----------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| zone_id         | String           | Zone ID of the record set                                                                                                                                                                                   |
| zone_name       | String           | Zone name of the record set                                                                                                                                                                                 |
| type            | String           | Record set type<br>The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> , <b>SRV</b> , or <b>CAA</b> .<br>For details, see <a href="#">Record Set Type</a> .         |
| ttl             | Integer          | Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect.<br>If your service address is frequently changed, set TTL to a smaller value. |
| records         | Array of strings | Record set value                                                                                                                                                                                            |
| created_at      | String           | Time when the record set was created<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                                  |
| updated_at      | String           | Time when the record set was updated<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                                  |
| status          | String           | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                       |
| default         | Boolean          | Whether the record set is created by default. A default record set cannot be deleted.                                                                                                                       |
| project_id      | String           | Project ID of the record set                                                                                                                                                                                |
| links           | Object           | Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-96</a> .        |
| line            | String           | Resolution line ID                                                                                                                                                                                          |
| weight          | Integer          | Weight of the record set                                                                                                                                                                                    |
| health_check_id | String           | Health check ID                                                                                                                                                                                             |
| alias_target    | Object           | Domain name alias. For details, see <a href="#">Table 6-7</a> .                                                                                                                                             |

**Table 4-96** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |

- Example response

```
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 300,
  "records": [
    "192.168.10.1",
    "192.168.10.2"
  ],
  "status": "PENDING_CREATE",
  "links": {
    "self": "https://Endpoint/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
  },
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
  "created_at": "2016-11-17T12:03:17.827",
  "updated_at": null,
  "default": false,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "line": "default_view",
  "weight": 1,
  "health_check_id": null
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.5.2 Querying a Record Set

### Function

Query a record set.

### URI

GET /v2.1/zones/{zone\_id}/recordsets/{recordset\_id}

For details, see [Table 4-97](#).



**Table 4-97** Parameters in the URI

| Parameter    | Mandatory | Type   | Description                                                                                                                         |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------|
| zone_id      | Yes       | String | Zone ID. Only public zones are supported.<br>You can obtain the value by calling the API in <a href="#">Querying Public Zones</a> . |
| recordset_id | Yes       | String | Record set ID<br>You can obtain the value by calling the API in <a href="#">Querying Record Sets in a Zone</a> .                    |

## Request

- Request parameters  
None
- Example request

Query the record set whose ID is 2c9eb155587228570158722b6ac30007 in the zone whose ID is 2c9eb155587194ec01587224c9f90149:

```
GET https://{DNS_Endpoint}/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007
```

## Response

- Parameter description

**Table 4-98** Parameters in the response

| Parameter   | Type   | Description                                                                                                                                                                                         |
|-------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id          | String | Record set ID                                                                                                                                                                                       |
| name        | String | Record set name                                                                                                                                                                                     |
| description | String | Record set description                                                                                                                                                                              |
| zone_id     | String | Zone ID of the record set                                                                                                                                                                           |
| zone_name   | String | Zone name of the record set                                                                                                                                                                         |
| type        | String | Record set type<br>The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> , <b>SRV</b> , or <b>CAA</b> .<br>For details, see <a href="#">Record Set Type</a> . |

| Parameter       | Type             | Description                                                                                                                                                                                              |
|-----------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ttl             | Integer          | Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect. If your service address is frequently changed, set TTL to a smaller value. |
| records         | Array of strings | Record set value                                                                                                                                                                                         |
| created_at      | String           | Time when the record set was created<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                               |
| updated_at      | String           | Time when the record set was updated<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                               |
| status          | String           | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                    |
| default         | Boolean          | Whether the record set is created by default. A default record set cannot be deleted.                                                                                                                    |
| project_id      | String           | Project ID of the record set                                                                                                                                                                             |
| links           | Object           | Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-99</a> .     |
| line            | String           | Resolution line ID                                                                                                                                                                                       |
| weight          | Integer          | Weight of the record set                                                                                                                                                                                 |
| health_check_id | String           | Health check ID                                                                                                                                                                                          |
| alias_target    | Object           | Domain name alias. For details, see <a href="#">Table 4-100</a> .                                                                                                                                        |

**Table 4-99** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |

**Table 4-100** Description of the `alias_target` field

| Parameter                         | Type   | Description                                                                                                             |
|-----------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------|
| <code>resource_type</code>        | String | Service that support domain name aliases<br>The value can be <b>cloudsite</b> or <b>waf</b> (Web Application Firewall). |
| <code>resource_domain_name</code> | String | Domain name of the target service                                                                                       |

- Example response

```
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 300,
  "records": [
    "192.168.10.2",
    "192.168.10.1"
  ],
  "status": "ACTIVE",
  "links": {
    "self": "https://Endpoint/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
  },
  "alias_target": null,
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
  "created_at": "2016-11-17T12:03:17.827",
  "updated_at": "2016-11-17T12:56:03.827",
  "default": false,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "line": "default_view",
  "weight": 1,
  "health_check_id": null
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.5.3 Querying All Record Sets

### Function

Query record sets in list.

### URI

GET /v2.1/recordsets

For details, see [Table 4-101](#).

**Table 4-101** Parameters in the URI

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| zone_type | No        | String  | Zone type of the record set to be queried, which can only be <b>public</b> .<br>A fuzzy search will be performed.<br>The default value is <b>public</b> .                                                                                                                                                                                                                                                   |
| marker    | No        | String  | Start resource ID of pagination query<br>If the parameter is left blank, only resources on the first page are queried.<br>The value is left blank by default.                                                                                                                                                                                                                                               |
| limit     | No        | Integer | Number of resources on each page<br>The value ranges from <b>0</b> to <b>500</b> .<br>Commonly used values are <b>10</b> , <b>20</b> , and <b>50</b> . The default value is <b>500</b> .                                                                                                                                                                                                                    |
| offset    | No        | Integer | Start offset of pagination query. The query will start from the next resource of the offset value.<br>The value ranges from <b>0</b> to <b>2147483647</b> .<br>The default value is 0.<br>If <b>marker</b> is not left blank, the query starts from the resource specified by <b>marker</b> .                                                                                                               |
| line_id   | No        | String  | Resolution line ID.                                                                                                                                                                                                                                                                                                                                                                                         |
| tags      | No        | String  | Resource tag<br>The format is as follows: <b>key1,value1 key2,value2</b> .<br>Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,).<br>The tags are in AND relationship.<br>Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk.<br>The value is left blank by default. |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                              |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status    | No        | String | Status of the record sets to be queried<br>The value can be <b>ACTIVE</b> , <b>ERROR</b> , <b>DISABLE</b> , <b>FREEZE</b> , <b>PENDING_CREATE</b> , <b>PENDING_UPDATE</b> , or <b>PENDING_DELETE</b> .<br>For details, see <a href="#">Resource Status</a> .<br>A fuzzy search will be performed.<br>The value is left blank by default. |
| type      | No        | String | Type of the record sets to be queried<br>The value can be <b>A</b> , <b>CNAME</b> , <b>MX</b> , <b>AAAA</b> , <b>TXT</b> , <b>SRV</b> , <b>NS</b> , or <b>CAA</b> .<br>For details, see <a href="#">Record Set Type</a> .<br>If this parameter is left blank, all types of record sets will be queried.<br>Exact matching will work.     |
| name      | No        | String | Name of record sets to be queried<br>A fuzzy search will be performed.<br>The value is left blank by default.                                                                                                                                                                                                                            |
| id        | No        | String | ID of record sets to be queried<br>A fuzzy search will be performed.<br>The value is left blank by default.                                                                                                                                                                                                                              |
| records   | No        | String | Value included in the values of record sets to be queried<br>A fuzzy search will be performed.<br>The value is left blank by default.                                                                                                                                                                                                    |
| sort_key  | No        | String | Sorting condition of the record set list<br>The value can be: <ul style="list-style-type: none"> <li>• <b>name</b>: domain name</li> <li>• <b>type</b>: record set type</li> </ul> The default value is left blank, indicating that the records are not sorted.                                                                          |
| sort_dir  | No        | String | Sorting order of the record set list<br>The value can be: <ul style="list-style-type: none"> <li>• <b>desc</b>: descending order</li> <li>• <b>asc</b>: ascending order</li> </ul> The default value is left blank, indicating that the records are not sorted.                                                                          |

| Parameter       | Mandatory | Type   | Description                                                                                 |
|-----------------|-----------|--------|---------------------------------------------------------------------------------------------|
| health_check_id | No        | String | Health check ID<br>A fuzzy search will be performed.<br>The value is left blank by default. |

## Request

- Request parameters  
None
- Example request  
Query A record sets whose name contains **www.example.com** in public zones:  
GET https://{DNS\_Endpoint}/v2.1/recordsets?zone\_type=&type=A&name=www.example.com

## Response

- Parameter description

**Table 4-102** Parameters in the response

| Parameter  | Type            | Description                                                                                                                                                                                           |
|------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| links      | Object          | Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-105</a> . |
| recordsets | Array of object | Record set list object<br>For details, see <a href="#">Table 4-103</a> .                                                                                                                              |
| metadata   | Object          | Number of resources that meet the filter condition<br>For details, see <a href="#">Table 4-104</a> .                                                                                                  |

**Table 4-103** Description of the **recordsets** field

| Parameter   | Type   | Description               |
|-------------|--------|---------------------------|
| id          | String | Record set ID             |
| name        | String | Record set name           |
| description | String | Record set description    |
| zone_id     | String | Zone ID of the record set |

| Parameter  | Type             | Description                                                                                                                                                                                                    |
|------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| zone_name  | String           | Zone name of the record set                                                                                                                                                                                    |
| type       | String           | Record set type<br>The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> , <b>SRV</b> , or <b>CAA</b> .<br>For details, see <a href="#">Record Set Type</a> .            |
| ttl        | Integer          | Record set cache duration (in seconds) on a local DNS server.<br>The longer the duration is, the slower the update takes effect.<br>If your service address is frequently changed, set TTL to a smaller value. |
| records    | Array of strings | Record set value                                                                                                                                                                                               |
| created_at | String           | Time when the record set was created<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                                     |
| updated_at | String           | Time when the record set was updated<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                                     |
| status     | String           | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                          |
| default    | Boolean          | Whether the record set is created by default<br>A default record set cannot be deleted.                                                                                                                        |
| project_id | String           | Project ID of the record set                                                                                                                                                                                   |
| links      | Object           | Link to the current resource or other related resources<br>When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-105</a> .        |

| Parameter       | Type                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tags            | Array of <b>tag</b> objects | Resource tag.<br>The format is as follows:<br><b>key1,value1 key2,value2</b> .<br>Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,).<br>The tags are in AND relationship.<br>For details, see <a href="#">Table 4-106</a> .<br>Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk.<br>The value is left blank by default. |
| line            | String                      | Resolution line ID                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| weight          | Integer                     | Weight of the record set                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| health_check_id | String                      | Health check ID                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| alias_target    | Object                      | Domain name alias. For details, see <a href="#">Table 4-107</a> .                                                                                                                                                                                                                                                                                                                                                                                                 |

**Table 4-104** Description of the **metadata** field

| Parameter   | Type    | Description                                                                                                    |
|-------------|---------|----------------------------------------------------------------------------------------------------------------|
| total_count | Integer | Number of resources that meet the filter criteria. The number is irrelevant to <b>limit</b> or <b>offset</b> . |

**Table 4-105** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |



**Table 4-106** Description of the **tag** field

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                            |
|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Tag key<br>A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.            |
| value     | String | Tag value<br>Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces. |

**Table 4-107** Description of the **alias\_target** field

| Parameter            | Type   | Description                                                                                                             |
|----------------------|--------|-------------------------------------------------------------------------------------------------------------------------|
| resource_type        | String | Service that support domain name aliases<br>The value can be <b>cloudsite</b> or <b>waf</b> (Web Application Firewall). |
| resource_domain_name | String | Domain name of the target service                                                                                       |

- Example response

```
{
  "links": {
    "self": "https://Endpoint/v2.1/recordsets",
    "next": "https://Endpoint/v2.1/recordsets?id=&limit=11&marker=2c9eb155587194ec01587224c9f9014a"
  },
  "recordsets": [
    {
      "id": "2c9eb155587194ec01587224c9f9014a",
      "name": "example.com.",
      "type": "SOA",
      "ttl": 300,
      "records": [
        "ns1.hotrot.de. xx.example.com. (1 7200 900 1209600 300)"
      ],
      "status": "ACTIVE",
      "links": {
        "self": "https://Endpoint/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587194ec01587224c9f9014a"
      },
      "alias_target": null,
      "zone_id": "2c9eb155587194ec01587224c9f90149",
      "zone_name": "example.com.",
    }
  ]
}
```

```

    "created_at": "2016-11-17T11:56:03.439",
    "updated_at": "2016-11-17T11:56:06.439",
    "default": true,
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
    "line": "default_view",
    "weight": 1,
    "health_check_id": null
  },
  {
    "id": "2c9eb155587194ec01587224c9f9014c",
    "name": "example.com.",
    "type": "NS",
    "ttl": 172800,
    "records": [
      "ns2.hotrot.de.",
      "ns1.hotrot.de."
    ],
    "status": "ACTIVE",
    "links": {
      "self": "https://Endpoint/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587194ec01587224c9f9014c"
    },
    "alias_target": null,
    "zone_id": "2c9eb155587194ec01587224c9f90149",
    "zone_name": "example.com.",
    "created_at": "2016-11-17T11:56:03.439",
    "updated_at": "2016-11-17T11:56:06.439",
    "default": true,
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
    "line": "default_view",
    "weight": 1,
    "health_check_id": null
  },
  {
    "id": "2c9eb155587228570158722996ca0002",
    "name": "example.org.",
    "type": "SOA",
    "ttl": 300,
    "records": [
      "ns1.hotrot.de. xx.example.org. (1 7200 900 1209600 300)"
    ],
    "status": "ACTIVE",
    "links": {
      "self": "https://Endpoint/v2.1/zones/2c9eb155587228570158722996c50001/recordsets/2c9eb155587228570158722996ca0002"
    },
    "alias_target": null,
    "zone_id": "2c9eb155587228570158722996c50001",
    "zone_name": "example.org.",
    "created_at": "2016-11-17T12:01:17.996",
    "updated_at": "2016-11-17T12:56:06.439",
    "default": true,
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
    "line": "xxx",
    "weight": 1,
    "health_check_id": null
  },
  {
    "id": "2c9eb155587228570158722996ca0004",
    "name": "example.org.",
    "type": "NS",
    "ttl": 172800,
    "records": [
      "ns2.hotrot.de.",
      "ns1.hotrot.de."
    ],
    "status": "ACTIVE",
    "links": {
      "self": "https://Endpoint/v2.1/zones/2c9eb155587228570158722996c50001/recordsets/

```

```
2c9eb155587228570158722996ca0004"
  },
  "alias_target":null,
  "zone_id": "2c9eb155587228570158722996c50001",
  "zone_name": "example.org.",
  "created_at": "2016-11-17T12:01:17.996",
  "updated_at": "2016-11-17T12:56:06.439",
  "default": false,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "line": "xxx",
  "weight": 1,
  "health_check_id":null
},
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 300,
  "records": [
    "abc.bcd.com."
  ],
  "status": "ACTIVE",
  "links": {
    "self": "https://Endpoint/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
  },
  "alias_target":{
    "resource_type": "cloudsite",
    "resource_domain_name": "2018122216193840mjysxoqn.cname.yujianzhan.cn."
  },
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
  "created_at": "2016-11-17T12:03:17.827",
  "updated_at": "2016-11-17T12:56:06.439",
  "default": false,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "line": "default_view",
  "weight": 1,
  "health_check_id":null
}
],
"metadata": {
  "total_count": 5
}
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.5.4 Querying Record Sets in a Zone

### Function

Query all record sets in a specified zone.

### URI

GET /v2.1/zones/{zone\_id}/recordsets

For details, see [Table 4-108](#).

**Table 4-108** Parameters in the URI

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| zone_id   | Yes       | String  | Zone ID. Only public zones are supported.<br>You can obtain the value by calling the API in <a href="#">Querying Public Zones</a> .                                                                                                                                                                                                                                                                         |
| marker    | No        | String  | Start resource ID of pagination query<br>If the parameter is left blank, only resources on the first page are queried.<br>The value is left blank by default.                                                                                                                                                                                                                                               |
| limit     | No        | Integer | Number of resources on each page<br>The value ranges from <b>0</b> to <b>500</b> .<br>Commonly used values are <b>10</b> , <b>20</b> , and <b>50</b> . The default value is <b>500</b> .                                                                                                                                                                                                                    |
| offset    | No        | Integer | Start offset of pagination query. The query will start from the next resource of the offset value.<br>The value ranges from <b>0</b> to <b>2147483647</b> .<br>The default value is 0.<br>If <b>marker</b> is not left blank, the query starts from the resource specified by <b>marker</b> .                                                                                                               |
| line_id   | No        | String  | Resolution line ID.<br>A fuzzy search will be performed.<br>The value is left blank by default.                                                                                                                                                                                                                                                                                                             |
| tags      | No        | String  | Resource tag<br>The format is as follows: <b>key1,value1 key2,value2</b> .<br>Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,).<br>The tags are in AND relationship.<br>Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk.<br>The value is left blank by default. |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                             |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status    | No        | String | <p>Status of the record sets to be queried</p> <p>The value can be <b>ACTIVE</b>, <b>ERROR</b>, <b>DISABLE</b>, <b>FREEZE</b>, <b>PENDING_CREATE</b>, <b>PENDING_UPDATE</b>, or <b>PENDING_DELETE</b>.</p> <p>For details, see <a href="#">Resource Status</a>.</p> <p>A fuzzy search will be performed.</p> <p>The value is left blank by default.</p> |
| type      | No        | String | <p>Type of the record sets to be queried</p> <p>The value can be <b>A</b>, <b>CNAME</b>, <b>MX</b>, <b>AAAA</b>, <b>TXT</b>, <b>SRV</b>, <b>NS</b>, or <b>CAA</b>.</p> <p>For details, see <a href="#">Record Set Type</a>.</p> <p>If this parameter is left blank, all types of record sets will be queried.</p> <p>Exact matching will work.</p>      |
| name      | No        | String | <p>Name of record sets to be queried</p> <p>A fuzzy search will be performed.</p> <p>The value is left blank by default.</p>                                                                                                                                                                                                                            |
| id        | No        | String | <p>ID of record sets to be queried</p> <p>A fuzzy search will be performed.</p> <p>The value is left blank by default.</p>                                                                                                                                                                                                                              |
| sort_key  | No        | String | <p>Sorting condition of the record set list</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>name</b>: domain name</li> <li>• <b>type</b>: record set type</li> </ul> <p>The default value is left blank, indicating that the records are not sorted.</p>                                                                       |
| sort_dir  | No        | String | <p>Sorting order of the record set list</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>desc</b>: descending order</li> <li>• <b>asc</b>: ascending order</li> </ul> <p>The default value is left blank, indicating that the records are not sorted.</p>                                                                       |

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                             |
|-------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| search_mode | No        | String | Search mode<br>The value can be: <ul style="list-style-type: none"> <li>• <b>like</b>: fuzzy search</li> <li>• <b>equal</b>: exact search</li> </ul> The default value is <b>like</b> . |

## Request

- Request parameters  
None
- Example request

Query record sets whose resolution line ID is **default\_view** in the zone whose ID is 2c9eb155587194ec01587224c9f90149:

```
GET https://{DNS_Endpoint}/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets?limit=&offset=&line_id=default_view
```

## Response

- Parameter description

**Table 4-109** Parameters in the response

| Parameter  | Type            | Description                                                                                                                                                                                           |
|------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| links      | Object          | Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-112</a> . |
| recordsets | Array of object | Record set list object. For details, see <a href="#">Table 4-110</a> .                                                                                                                                |
| metadata   | Object          | Total number of resources that meet the filter criteria. For details, see <a href="#">Table 4-111</a> .                                                                                               |

**Table 4-110** Description of the **recordsets** field

| Parameter   | Type   | Description            |
|-------------|--------|------------------------|
| id          | String | Record set ID          |
| name        | String | Record set name        |
| description | String | Record set description |

| Parameter       | Type             | Description                                                                                                                                                                                                    |
|-----------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| zone_id         | String           | Zone ID of the record set                                                                                                                                                                                      |
| zone_name       | String           | Zone name of the record set                                                                                                                                                                                    |
| type            | String           | Record set type<br>The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> , <b>SRV</b> , or <b>CAA</b> .<br>For details, see <a href="#">Record Set Type</a> .            |
| ttl             | Integer          | Record set cache duration (in seconds) on a local DNS server.<br>The longer the duration is, the slower the update takes effect.<br>If your service address is frequently changed, set TTL to a smaller value. |
| records         | Array of strings | Record set value                                                                                                                                                                                               |
| create_at       | String           | Time when the record set was created<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                                     |
| update_at       | String           | Time when the record set was updated<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                                     |
| status          | String           | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                          |
| default         | Boolean          | Whether the record set is created by default. A default record set cannot be deleted.                                                                                                                          |
| project_id      | String           | Project ID of the record set                                                                                                                                                                                   |
| links           | Object           | Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-112</a> .          |
| line            | String           | Resolution line ID.                                                                                                                                                                                            |
| weight          | Integer          | Weight of the record set                                                                                                                                                                                       |
| health_check_id | String           | Health check ID                                                                                                                                                                                                |
| alias_target    | Object           | Domain name alias. For details, see <a href="#">Table 4-113</a> .                                                                                                                                              |

**Table 4-111** Description of the **metadata** field

| Parameter   | Type    | Description                                                                                                    |
|-------------|---------|----------------------------------------------------------------------------------------------------------------|
| total_count | Integer | Number of resources that meet the filter criteria. The number is irrelevant to <b>limit</b> or <b>offset</b> . |

**Table 4-112** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |

**Table 4-113** Description of the **alias\_target** field

| Parameter            | Type   | Description                                                                                                             |
|----------------------|--------|-------------------------------------------------------------------------------------------------------------------------|
| resource_type        | String | Service that support domain name aliases<br>The value can be <b>cloudsite</b> or <b>waf</b> (Web Application Firewall). |
| resource_domain_name | String | Domain name of the target service                                                                                       |

- Example response

```
{
  "links": {
    "self": "https://Endpoint/v2.1/recordsets?
limit=1&marker=&name=&status=&zone_id=2c9eb155587194ec01587224c9f90149",
    "next": "https://Endpoint/v2.1/recordsets?
limit=11&marker=2c9eb155587194ec01587224c9f9014a&name=&status=&zone_id=2c9eb155587194ec
01587224c9f90149"
  },
  "recordsets": [
    {
      "id": "2c9eb155587194ec01587224c9f9014a",
      "name": "example.com.",
      "type": "SOA",
      "ttl": 300,
      "records": [
        "ns1.hotrot.de. xx.example.com. (1 7200 900 1209600 300)"
      ],
      "status": "ACTIVE",
      "links": {
        "self": "https://Endpoint/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/
2c9eb155587194ec01587224c9f9014a"
      },
      "alias_target": null,
    }
  ]
}
```



```

    "zone_id": "2c9eb155587194ec01587224c9f90149",
    "zone_name": "example.com.",
    "create_at": "2016-11-17T11:56:03.439",
    "update_at": "2016-11-17T11:56:06.439",
    "default": true,
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
    "line": "default_view",
    "weight": 1,
    "health_check_id": null
  },
  {
    "id": "2c9eb155587194ec01587224c9f9014c",
    "name": "example.com.",
    "type": "NS",
    "ttl": 172800,
    "records": [
      "ns2.hotrot.de.",
      "ns1.hotrot.de."
    ],
    "status": "ACTIVE",
    "links": {
      "self": "https://Endpoint/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587194ec01587224c9f9014c"
    },
    "alias_target": null,
    "zone_id": "2c9eb155587194ec01587224c9f90149",
    "zone_name": "example.com.",
    "create_at": "2016-11-17T11:56:03.439",
    "update_at": "2016-11-17T11:56:06.439",
    "default": true,
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
    "line": "default_view",
    "weight": 1,
    "health_check_id": null
  },
  {
    "id": "2c9eb155587228570158722b6ac30007",
    "name": "www.example.com.",
    "description": "This is an example record set.",
    "type": "A",
    "ttl": 300,
    "records": [
      "192.168.10.2",
      "192.168.10.1"
    ],
    "status": "PENDING_CREATE",
    "links": {
      "self": "https://Endpoint/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
    },
    "alias_target": null,
    "zone_id": "2c9eb155587194ec01587224c9f90149",
    "zone_name": "example.com.",
    "create_at": "2016-11-17T12:03:17.827",
    "update_at": "2016-11-17T12:56:06.439",
    "default": false,
    "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
    "line": "default_view",
    "weight": 1,
    "health_check_id": null
  }
],
"metadata": {
  "total_count": 3
}
}

```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.5.5 Deleting a Record Set

### Function

Delete a record set.

### URI

DELETE /v2.1/zones/{zone\_id}/recordsets/{recordset\_id}

For details, see [Table 4-114](#).

**Table 4-114** Parameters in the URI

| Parameter    | Mandatory | Type   | Description                                                                                                                           |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------|
| zone_id      | Yes       | String | Zone ID. Only public zones are supported.<br>You can obtain the value by calling the API in <a href="#">Querying Public Zones</a> .   |
| recordset_id | Yes       | String | ID of the record set to be deleted<br>You can obtain the value by calling the API in <a href="#">Querying Record Sets in a Zone</a> . |

### Request

- Request parameters

None

- Example request

Delete the record set whose ID is 2c9eb155587228570158722b6ac30007 in the zone whose ID is 2c9eb155587194ec01587224c9f90149:

```
DELETE https://{DNS_Endpoint}/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007
```

### Response

- Parameter description

**Table 4-115** Parameters in the response

| Parameter   | Type             | Description                                                                                                                                                                                                    |
|-------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id          | String           | Record set ID                                                                                                                                                                                                  |
| name        | String           | Record set name                                                                                                                                                                                                |
| description | String           | Record set description                                                                                                                                                                                         |
| zone_id     | String           | Zone ID of the record set                                                                                                                                                                                      |
| zone_name   | String           | Zone name of the record set                                                                                                                                                                                    |
| type        | String           | Record set type<br>The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> , <b>SRV</b> , or <b>CAA</b> .<br>For details, see <a href="#">Record Set Type</a> .            |
| ttl         | Integer          | Record set cache duration (in seconds) on a local DNS server.<br>The longer the duration is, the slower the update takes effect.<br>If your service address is frequently changed, set TTL to a smaller value. |
| records     | Array of strings | Record set value                                                                                                                                                                                               |
| created_at  | String           | Time when the record set was created<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                                     |
| updated_at  | String           | Time when the record set was updated<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                                     |
| status      | String           | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                          |
| default     | Boolean          | Whether the record set is created by default. A default record set cannot be deleted.                                                                                                                          |
| project_id  | String           | Project ID of the record set                                                                                                                                                                                   |
| links       | Object           | Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-116</a> .          |

| Parameter       | Type    | Description                                                       |
|-----------------|---------|-------------------------------------------------------------------|
| line            | String  | Resolution line ID.                                               |
| weight          | Integer | Weight of the record set                                          |
| health_check_id | String  | Health check ID                                                   |
| alias_target    | Object  | Domain name alias. For details, see <a href="#">Table 4-117</a> . |

**Table 4-116** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |

**Table 4-117** Description of the **alias\_target** field

| Parameter            | Type   | Description                                                                                                             |
|----------------------|--------|-------------------------------------------------------------------------------------------------------------------------|
| resource_type        | String | Service that support domain name aliases<br>The value can be <b>cloudsite</b> or <b>waf</b> (Web Application Firewall). |
| resource_domain_name | String | Domain name of the target service                                                                                       |

- Example response

```
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 300,
  "status": "PENDING_DELETE",
  "links": {
    "self": "https://Endpoint/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
  },
  "alias_target": null,
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
  "created_at": "2016-11-17T12:03:17.827",
  "updated_at": "2016-11-17T12:56:06.439",
  "default": false,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "line": "default_view",
  "weight": 1,
  "health_check_id": null
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.5.6 Modifying a Record Set

### Function

Modify a record set.

### URI

PUT /v2.1/zones/{zone\_id}/recordsets/{recordset\_id}

For details, see [Table 4-118](#).

**Table 4-118** Parameters in the URI

| Parameter    | Mandatory | Type   | Description                                                                                                                            |
|--------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------|
| zone_id      | Yes       | String | Zone ID. Only public zones are supported.<br>You can obtain the value by calling the API in <a href="#">Querying Public Zones</a> .    |
| recordset_id | Yes       | String | ID of the record set to be modified<br>You can obtain the value by calling the API in <a href="#">Querying Record Sets in a Zone</a> . |

### Request

- Parameter description

**Table 4-119** Parameters in the request

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                             |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | Yes       | String | Fully qualified domain name (FQDN) suffixed with a zone name, which is a complete host name ended with a dot<br><br>A domain name is case insensitive. Uppercase letters will also be converted into lowercase letters. |

| Parameter   | Mandatory | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|-----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| description | No        | String           | <p>(Optional) Description of the domain name</p> <p>The value cannot exceed 255 characters.</p> <p>If this parameter is left blank, the value will not be changed.</p> <p>The value is left blank by default.</p>                                                                                                                                                                                                                                                                                |
| type        | Yes       | String           | <p>Record set type</p> <p>The value can be <b>A</b>, <b>AAAA</b>, <b>MX</b>, <b>CNAME</b>, <b>TXT</b>, <b>NS</b>, <b>SRV</b>, or <b>CAA</b>.</p> <p>For details, see <a href="#">Record Set Type</a>.</p>                                                                                                                                                                                                                                                                                        |
| ttl         | No        | Integer          | <p>Record set cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect.</p> <p>If your service address is frequently changed, set TTL to a smaller value.</p> <p>Value range:</p> <ul style="list-style-type: none"> <li>• Public zone: <b>1–2147483647</b></li> <li>• Private zone: <b>300–2147483647</b></li> </ul> <p>If this parameter is left blank, the value will not be changed.</p> <p>The value is left blank by default.</p> |
| records     | No        | Array of strings | <p>Value of the record set. The value format varies depending on record set types.</p> <p>For example, the value of an AAAA record set is the IPv6 address list mapped to the domain name.</p>                                                                                                                                                                                                                                                                                                   |

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| weight    | No        | Integer | <p>Weight of the record set</p> <ul style="list-style-type: none"> <li>When the value is left blank, the original weight of the record set is not changed.</li> <li>If the weight is set to <b>0</b>, the record set is a secondary one.</li> <li>If the weight is larger than <b>0</b>, the record set is a primary one.</li> </ul> <p>The value ranges from <b>0</b> to <b>1000</b>.</p> <p>The value is left blank by default.</p> <p>You can create a maximum of 20 record sets with the same name, type, and resolution line but different weight values.</p> |

- Example request

Modify the record set whose ID is 2c9eb155587228570158722b6ac30007 in the zone whose ID is 2c9eb155587194ec01587224c9f90149:

```
PUT https://{DNS_Endpoint}/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007
```

- A type

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 3600,
  "records": [
    "192.168.10.1",
    "192.168.10.2"
  ],
  "weight": 1
}
```

- AAAA type

```
{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "AAAA",
  "ttl": 3600,
  "records": [
    "fe80:0:0:0:202:b3ff:fe1e:8329",
    "ff03:0db8:85a3:0:0:8a2e:0370:7334"
  ],
  "weight": 1
}
```

- MX type

```
{
  "name": "www.example.com.",
```

```

    "description": "This is an example record set.",
    "type": "MX",
    "ttl": 3600,
    "records": [
      "1 mail.example.com"
    ],
    "weight": 1
  }

```

- CNAME type

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "CNAME",
  "ttl": 3600,
  "records": [
    "server1.example.com"
  ],
  "weight": 1
}

```

- TXT type

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "TXT",
  "ttl": 300,
  "records": [
    "\"This host is used for sale.\""
  ],
  "weight": 1
}

```

- NS type

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "NS",
  "ttl": 300,
  "records": [
    "node1.example.com.",
    "node2.example.com."
  ],
  "weight": 1
}

```

- SRV type

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "SRV",
  "ttl": 3600,
  "records": [
    "3 60 2176 sipserver.example.com.",
    "10 100 2176 sipserver.example.com."
  ],
  "weight": 1
}

```

- CAA type

```

{
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "CAA",
  "ttl": 300,
  "records": [
    "0 issue \"example.com\"",
    "0 issuewild \"www.certinomis.com\"",
    "0 iodef \"mailto:xx@example.org\"",
    "0 iodef \"http://iodef.example.com\""
  ]
}

```



```

    ],
    "weight": 1
  }

```

## Response

- Parameter description

**Table 4-120** Parameters in the response

| Parameter   | Type             | Description                                                                                                                                                                                                    |
|-------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id          | String           | Record set ID                                                                                                                                                                                                  |
| name        | String           | Record set name                                                                                                                                                                                                |
| description | String           | Record set description                                                                                                                                                                                         |
| zone_id     | String           | Zone ID of the record set                                                                                                                                                                                      |
| zone_name   | String           | Zone name of the record set                                                                                                                                                                                    |
| type        | String           | Record set type<br>The value can be <b>A</b> , <b>AAAA</b> , <b>MX</b> , <b>CNAME</b> , <b>TXT</b> , <b>NS</b> , <b>SRV</b> , or <b>CAA</b> .<br>For details, see <a href="#">Record Set Type</a> .            |
| ttl         | Integer          | Record set cache duration (in seconds) on a local DNS server.<br>The longer the duration is, the slower the update takes effect.<br>If your service address is frequently changed, set TTL to a smaller value. |
| records     | Array of strings | Record set value                                                                                                                                                                                               |
| created_at  | String           | Time when the record set was created<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                                     |
| updated_at  | String           | Time when the record set was updated<br>The UTC time format is used: YYYY-MM-DDTHH:MM:SSZ.                                                                                                                     |
| status      | String           | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                          |
| default     | Boolean          | Whether the record set is created by default. A default record set cannot be deleted.                                                                                                                          |
| project_id  | String           | Project ID of the record set                                                                                                                                                                                   |

| Parameter       | Type    | Description                                                                                                                                                                                           |
|-----------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| links           | Object  | Link to the current resource or other related resources. When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-121</a> . |
| line            | String  | Resolution line ID.                                                                                                                                                                                   |
| weight          | Integer | Weight of the record set                                                                                                                                                                              |
| health_check_id | String  | Health check ID                                                                                                                                                                                       |
| alias_target    | Object  | Domain name alias. For details, see <a href="#">Table 4-122</a> .                                                                                                                                     |

**Table 4-121** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |

**Table 4-122** Description of the **alias\_target** field

| Parameter            | Type   | Description                                                                                                             |
|----------------------|--------|-------------------------------------------------------------------------------------------------------------------------|
| resource_type        | String | Service that support domain name aliases<br>The value can be <b>cloudsite</b> or <b>waf</b> (Web Application Firewall). |
| resource_domain_name | String | Domain name of the target service                                                                                       |

- Example response

```
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "www.example.com.",
  "description": "This is an example record set.",
  "type": "A",
  "ttl": 3600,
  "records": [
    "192.168.10.1",
    "192.168.10.2"
  ],
  "status": "PENDING_UPDATE",
  "links": {
    "self": "https://Endpoint/v2.1/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
  },
  "zone_id": "2c9eb155587194ec01587224c9f90149",
  "zone_name": "example.com.",
}
```

```

"created_at": "2016-11-17T12:03:17.827",
"updated_at": "2016-11-17T12:56:06.439",
"default": false,
"project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
"line": "default_view",
"weight": 1,
"health_check_id": null
}

```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.6 PTR Record Management

### 4.6.1 Creating a PTR Record

#### Function

Create a PTR record for an elastic IP address (EIP).

#### NOTE

The same [URI](#) is used to [create](#), [modify](#), and [delete](#) PTR records. Different request bodies are used to implement different functions.

#### URI

PATCH /v2/reverse/floatingips/{region}:{floatingip\_id}

For details, see [Table 4-123](#).

**Table 4-123** Parameters in the URI

| Parameter     | Mandatory | Type   | Description           |
|---------------|-----------|--------|-----------------------|
| region        | Yes       | String | Region of the tenant. |
| floatingip_id | Yes       | String | EIP ID                |

#### Request

- Parameter description

**Table 4-124** Parameters in the request

| Parameter   | Mandatory | Type            | Description                                                                                                                                                                                                                                                                                               |
|-------------|-----------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ptrdname    | Yes       | String          | Domain name of the PTR record<br>A domain name is case insensitive. Uppercase letters will also be converted into lowercase letters.                                                                                                                                                                      |
| description | No        | String          | PTR record description<br>The value is left blank by default.                                                                                                                                                                                                                                             |
| ttl         | No        | Integer         | PTR record cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect.<br>If your service address is frequently changed, set TTL to a smaller value.<br>The value ranges from <b>1</b> to <b>2147483647</b> .<br>The default value is <b>300</b> . |
| tags        | No        | Array of object | Resource tag. For details, see <a href="#">Table 4-125</a> .<br>The value is left blank by default.                                                                                                                                                                                                       |

**Table 4-125** Description of the tags field

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                 |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key<br>A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces. |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                            |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| value     | No        | String | Tag value<br>Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces. |

- Example request

Create a PTR record for the EIP whose ID is **c5504932-bf23-4171-b655-b87a6bc59334**:

PATCH [https://{DNS\\_Endpoint}/v2/reverse/floatingips/region\\_id:c5504932-bf23-4171-b655-b87a6bc59334](https://{DNS_Endpoint}/v2/reverse/floatingips/region_id:c5504932-bf23-4171-b655-b87a6bc59334)

```
{
  "ptrdname": "www.example.com",
  "description": "Description for this PTR record",
  "ttl": 300,
  "tags": [
    {
      "key": "key1",
      "value": "value1"
    }
  ]
}
```

## Response

- Parameter description

**Table 4-126** Parameters in the response

| Parameter   | Type    | Description                                                                                                                                                                                                                                                                                               |
|-------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id          | String  | PTR record ID, which is in <b>{region}:</b> <b>{floatingip_id}</b> format                                                                                                                                                                                                                                 |
| ptrdname    | String  | Domain name of the PTR record                                                                                                                                                                                                                                                                             |
| description | String  | PTR record description                                                                                                                                                                                                                                                                                    |
| ttl         | Integer | PTR record cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect.<br>If your service address is frequently changed, set TTL to a smaller value.<br>The value ranges from <b>1</b> to <b>2147483647</b> .<br>The default value is <b>300</b> . |

| Parameter | Type   | Description                                                                                                                                                                                              |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| address   | String | EIP                                                                                                                                                                                                      |
| status    | String | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                    |
| action    | String | Requested operation on the resource<br>The value can be <b>CREATE</b> , <b>UPDATE</b> , <b>DELETE</b> , or <b>NONE</b> .<br><b>NONE</b> indicates that no operation will be performed.                   |
| links     | Object | Link to the current resource or other related resources.<br>When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-127</a> . |

**Table 4-127** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |

- Example response

```
{
  "id": "region_id:c5504932-bf23-4171-b655-b87a6bc59334",
  "ptrdname": "www.example.com.",
  "description": "Description for this PTR record",
  "address": "10.154.52.138",
  "action": "CREATE",
  "ttl": 300,
  "status": "PENDING_CREATE",
  "links": {
    "self": "https://Endpoint/v2/reverse/floatingsips/region_id:c5504932-bf23-4171-b655-b87a6bc59334"
  }
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.6.2 Querying a PTR Record

### Function

Query the PTR record of an EIP.

## URI

GET /v2/reverse/floatingips/{region}:{floatingip\_id}

For details, see [Table 4-128](#).

**Table 4-128** Parameters in the URI

| Parameter     | Mandatory | Type   | Description          |
|---------------|-----------|--------|----------------------|
| region        | Yes       | String | Region of the tenant |
| floatingip_id | Yes       | String | EIP ID               |

## Request

- Request parameters

None

- Example request

Query the PTR record whose EIP ID is **c5504932-bf23-4171-b655-b87a6bc59334**:

```
GET https://{DNS_Endpoint}/v2/reverse/floatingips/region_id:c5504932-bf23-4171-b655-b87a6bc59334
```

## Response

- Parameter description

**Table 4-129** Parameters in the response

| Parameter   | Type    | Description                                                                                                                                                                                                                                                                                               |
|-------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id          | String  | PTR record ID, which is in <b>{region}:{floatingip_id}</b> format                                                                                                                                                                                                                                         |
| ptrdname    | String  | Domain name of the PTR record                                                                                                                                                                                                                                                                             |
| description | String  | PTR record description                                                                                                                                                                                                                                                                                    |
| ttl         | Integer | PTR record cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect.<br>If your service address is frequently changed, set TTL to a smaller value.<br>The value ranges from <b>1</b> to <b>2147483647</b> .<br>The default value is <b>300</b> . |
| address     | String  | EIP                                                                                                                                                                                                                                                                                                       |
| status      | String  | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                                                                                                                     |

| Parameter | Type   | Description                                                                                                                                                                                             |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| action    | String | Requested operation on the resource<br>The value can be <b>CREATE</b> , <b>UPDATE</b> , <b>DELETE</b> , or <b>NONE</b> .<br><b>NONE</b> indicates that no operation will be performed.                  |
| links     | Object | Link to the current resource or other related resources<br>When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-130</a> . |

**Table 4-130** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |

- Example response

```
{
  "id": "region_id:c5504932-bf23-4171-b655-b87a6bc59334",
  "ptrdname": "www.example.com.",
  "description": "Description for this PTR record",
  "address": "10.154.52.138",
  "action": "CREATE",
  "ttl": 300,
  "status": "ACTIVE",
  "links": {
    "self": "https://Endpoint/v2/reverse/floatingips/region_id:c5504932-bf23-4171-b655-b87a6bc59334"
  }
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.6.3 Querying All PTR Records

### Function

Query PTR records of EIPs.

### URI

GET /v2/reverse/floatingips



For details, see [Table 4-131](#).

**Table 4-131** Parameters in the URI

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| marker    | No        | String  | Start resource ID of pagination query<br>If the parameter is left blank, only resources on the first page are queried.<br>The value is left blank by default.                                                                                                                                                                                                                                                  |
| limit     | No        | Integer | Number of resources on each page<br>The value ranges from <b>0</b> to <b>500</b> .<br>Commonly used values are <b>10</b> , <b>20</b> , and <b>50</b> . The default value is <b>500</b> .                                                                                                                                                                                                                       |
| offset    | No        | Integer | Start offset of pagination query. The query will start from the next resource of the offset value.<br>The value ranges from <b>0</b> to <b>2147483647</b> .<br>The default value is 0.<br>If <b>marker</b> is not left blank, the query starts from the resource specified by <b>marker</b> .                                                                                                                  |
| tags      | No        | String  | Resource tag<br>The format is as follows:<br><b>key1,value1 key2,value2</b> .<br>Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,).<br>The tags are in AND relationship.<br>Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk.<br>The value is left blank by default. |
| status    | No        | String  | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                                                                                                                                                                                                                          |

## Request

- Request parameters  
None
- Example request  
List required PTR records.

GET https://{DNS\_Endpoint}/v2/reverse/floatingips

## Response

- Parameter description

**Table 4-132** Parameters in the response

| Parameter   | Type            | Description                                                                                                                                                                                              |
|-------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| links       | Object          | Link to the current resource or other related resources.<br>When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-135</a> . |
| metadata    | Object          | Number of resources that meet the filter condition. For details, see <a href="#">Table 4-134</a> .                                                                                                       |
| floatingips | Array of object | PTR record object list. For details, see <a href="#">Table 4-133</a> .                                                                                                                                   |

**Table 4-133** Description of the **floatingips** field

| Parameter   | Type    | Description                                                                                                                                                                                                                                                                                               |
|-------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id          | String  | PTR record ID, which is in <b>{region}:</b> <b>{floatingip_id}</b> format                                                                                                                                                                                                                                 |
| ptrdname    | String  | Domain name of the PTR record                                                                                                                                                                                                                                                                             |
| description | String  | PTR record description                                                                                                                                                                                                                                                                                    |
| ttl         | Integer | PTR record cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect.<br>If your service address is frequently changed, set TTL to a smaller value.<br>The value ranges from <b>1</b> to <b>2147483647</b> .<br>The default value is <b>300</b> . |
| address     | String  | EIP                                                                                                                                                                                                                                                                                                       |
| status      | String  | Resource status<br>For details, see <a href="#">Resource Status</a> .                                                                                                                                                                                                                                     |
| action      | String  | Requested operation on the resource<br>The value can be <b>CREATE</b> , <b>UPDATE</b> , <b>DELETE</b> , or <b>NONE</b> .<br><b>NONE</b> indicates that no operation will be performed.                                                                                                                    |

| Parameter | Type                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| links     | Object                      | <p>Link to the current resource or other related resources.</p> <p>When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-135</a>.</p>                                                                                                                                                                                                                                                                          |
| tags      | Array of <b>tag</b> objects | <p>Resource tag.</p> <p>The format is as follows: <b>key1,value1 key2,value2</b>.</p> <p>Multiple tags are separated by vertical bar ( ). The key and value of each tag are separated by comma (,).</p> <p>The tags are in AND relationship.</p> <p>For details, see <a href="#">Table 4-136</a>.</p> <p>Exact matching will work. If the value starts with an asterisk (*), fuzzy matching will work for the string following the asterisk.</p> <p>The value is left blank by default.</p> |

**Table 4-134** Description of the **metadata** field

| Parameter   | Type    | Description                                                                                                          |
|-------------|---------|----------------------------------------------------------------------------------------------------------------------|
| total_count | Integer | <p>Number of resources that meet the filter criteria. The number is irrelevant to <b>limit</b> or <b>offset</b>.</p> |

**Table 4-135** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |

**Table 4-136** Description of the **tag** field

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                            |
|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Tag key<br>A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.            |
| value     | String | Tag value<br>Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces. |

- Example response

```
{
  "links": {
    "self": "https://Endpoint/v2/reverse/floatingips",
    "next": "https://Endpoint/v2/zones?id=&limit=1&marker=region_id:c5504932-bf23-4171-b655-b87a6bc59334"
  },
  "metadata": {
    "total_count": 1
  },
  "floatingips": [
    {
      "id": "region_id:c5504932-bf23-4171-b655-b87a6bc59334",
      "ptrdname": "www.example.com.",
      "description": "Description for this PTR record",
      "address": "10.154.52.138",
      "action": "NONE",
      "ttl": 300,
      "status": "ACTIVE",
      "links": {
        "self": "https://Endpoint/v2/reverse/floatingips/region_id:c5504932-bf23-4171-b655-b87a6bc59334"
      }
    }
  ]
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.6.4 Unsetting a PTR Record

### Function

Delete a PTR record for an EIP by unsetting it to the default value.

#### NOTE

The same **URI** is used to **create**, **modify**, and **delete** PTR records. Different request bodies are used to implement different functions.

### URI

PATCH `/v2/reverse/floatingips/{region}:{floatingip_id}`

For details, see [Table 4-137](#).

**Table 4-137** Parameters in the URI

| Parameter     | Mandatory | Type   | Description           |
|---------------|-----------|--------|-----------------------|
| region        | Yes       | String | Region of the tenant. |
| floatingip_id | Yes       | String | EIP ID                |

### Request

- Parameter description

**Table 4-138** Parameter in the request

| Parameter | Mandatory | Type   | Description                                                            |
|-----------|-----------|--------|------------------------------------------------------------------------|
| ptrdname  | Yes       | String | Domain name of the PTR record<br>Set it to <b>null</b> in the request. |

- Example request

Unset the PTR record whose EIP ID is **c5504932-bf23-4171-b655-b87a6bc59334** to the default value:

```
PATCH https://{DNS_Endpoint}/v2/reverse/floatingips/region_id:c5504932-bf23-4171-b655-b87a6bc59334
{
  "ptrdname": null
}
```

### Response

None

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.6.5 Modifying a PTR Record

### Function

Modify the PTR record for an EIP.

#### NOTE

The same [URI](#) is used to [create](#), [modify](#), and [delete](#) PTR records. Different request bodies are used to implement different functions.

### URI

PATCH /v2/reverse/floatingips/{region}:{floatingip\_id}

For details, see [Table 4-139](#).

**Table 4-139** Parameters in the URI

| Parameter     | Mandatory | Type   | Description          |
|---------------|-----------|--------|----------------------|
| region        | Yes       | String | Region of the tenant |
| floatingip_id | Yes       | String | EIP ID               |

### Request

- Parameter description

**Table 4-140** Parameters in the request

| Parameter   | Mandatory | Type   | Description                                                                                                                          |
|-------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------|
| ptrdname    | Yes       | String | Domain name of the PTR record<br>A domain name is case insensitive. Uppercase letters will also be converted into lowercase letters. |
| description | No        | String | PTR record description<br>The value is left blank by default.                                                                        |

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                |
|-----------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tll       | No        | Integer | <p>PTR record cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect.</p> <p>If your service address is frequently changed, set TTL to a smaller value.</p> <p>The value ranges from <b>1</b> to <b>2147483647</b>.</p> <p>The default value is <b>300</b>.</p> |

- Example request

Modify the PTR record whose EIP ID is **c5504932-bf23-4171-b655-b87a6bc59334**:

PATCH `https://{DNS_Endpoint}/v2/reverse/floatingips/region_id:c5504932-bf23-4171-b655-b87a6bc59334`

```
{
  "ptrdname": "www.example.com",
  "description": "Description for this PTR record",
  "ttl": 300
}
```

## Response

- Parameter description

**Table 4-141** Parameters in the response

| Parameter   | Type    | Description                                                                                                                                                                                                                                                                                                                |
|-------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id          | String  | <p>PTR record ID, which is in <b>{region}: {floatingip_id}</b> format</p>                                                                                                                                                                                                                                                  |
| ptrdname    | String  | Domain name of the PTR record                                                                                                                                                                                                                                                                                              |
| description | String  | PTR record description                                                                                                                                                                                                                                                                                                     |
| tll         | Integer | <p>PTR record cache duration (in seconds) on a local DNS server. The longer the duration is, the slower the update takes effect.</p> <p>If your service address is frequently changed, set TTL to a smaller value.</p> <p>The value ranges from <b>1</b> to <b>2147483647</b>.</p> <p>The default value is <b>300</b>.</p> |
| address     | String  | EIP                                                                                                                                                                                                                                                                                                                        |
| status      | String  | <p>Resource status</p> <p>For details, see <a href="#">Resource Status</a>.</p>                                                                                                                                                                                                                                            |

| Parameter | Type   | Description                                                                                                                                                                                             |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| action    | String | Requested operation on the resource<br>The value can be <b>CREATE</b> , <b>UPDATE</b> , <b>DELETE</b> , or <b>NONE</b> (indicating that no operation will be performed).                                |
| links     | Object | Link to the current resource or other related resources<br>When a response is broken into pages, a <b>next</b> link is provided to retrieve all results. For details, see <a href="#">Table 4-142</a> . |

**Table 4-142** Parameters in the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |

- Example response

```
{
  "id": "region_id:c5504932-bf23-4171-b655-b87a6bc59334",
  "ptrdname": "www.example.com.",
  "description": "Description for this PTR record",
  "address": "10.154.52.138",
  "action": "CREATE",
  "ttl": 300,
  "status": "PENDING_CREATE",
  "links": {
    "self": "https://Endpoint/v2/reverse/floatingips/region_id:c5504932-bf23-4171-b655-b87a6bc59334"
  }
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

## 4.7 Quota Management

### 4.7.1 Querying Resource Quotas

#### Function

This API is used to query the DNS resource quotas of a specific tenant. The resources include:



- Public zones
- Private zones
- Record sets
- PRT records
- Resolution lines

## URI

GET /v2/quotamg/dns/quotas

## Request

- Parameter description

**Table 4-143** Parameters in the request

| Parameter | Mandatory | Type   | Description              |
|-----------|-----------|--------|--------------------------|
| domain_id | Yes       | String | Specifies the tenant ID. |

- Example request  
Querying resource quotas of a tenant  
GET https://{DNS\_Endpoint}/v2/quotamg/dns/quotas&domain\_id=xxxx

## Response

- Parameter description

**Table 4-144** Parameters in the response

| Parameter | Type            | Description                                                         |
|-----------|-----------------|---------------------------------------------------------------------|
| quotas    | Array of object | Resource quota list. For details, see <a href="#">Table 4-145</a> . |

**Table 4-145** Description of the **quotas** field

| Parameter   | Type    | Description                                                  |
|-------------|---------|--------------------------------------------------------------|
| quota_key   | String  | Resource type.                                               |
| quota_limit | Integer | Maximum resource quota.                                      |
| used        | Integer | Used resource quota                                          |
| unit        | String  | Quota measurement unit. The value is fixed at <b>count</b> . |

- Example response

```
{
  "quotas": [
    {
      "quota_key": "zone",
      "quota_limit": 50,
      "used": 30,
      "unit": "count",
    },
    {
      "quota_key": ""private zone",
      "quota_limit": 50,
      "used": 30,
      "unit": "count",
    }
  ]
}
```

## Returned Value

If a 2xx status code is returned, for example, 200, 202, or 204, the request is successful.

For details, see [Status Code](#).

# 5 Examples

---

## 5.1 Example 1: Creating a Public Zone

### Scenarios

After you register a domain name and set up a website, create a public zone and configure records to point the domain name to the IP address of the web server where the website is deployed so that visitors can use the domain name to access your website over the Internet.

This section describes how to create a public zone by calling the API in [Creating a Public Zone](#) and create a record set by calling the API in [Creating a Record Set](#). For details about how to call APIs, see [Calling APIs](#).

#### NOTE

The token obtained from IAM is valid for only 24 hours. If you want to use one token for authentication, you can cache it to avoid frequently calling the IAM API.

### Prerequisites

- You have registered domain name example.com.
- You have deployed a web server and obtained its IP address.

### Involved APIs

You need to obtain a token and add **X-Auth-Token** to the request header of API calls.

- IAM API for obtaining a token
- DNS API for creating a public zone
- DNS API for creating a record set

### Procedure

1. Obtain the token by referring to [Authentication](#).

2. Add **Content-Type** and **X-Auth-Token** in the request header.
3. Specify the following parameters in the request body:

```
{
  "name": "example.com.", // Zone name (mandatory, string)
  "description": "This is an example zone.", // Description of the zone (optional, string)
  "zone_type": "public", // Zone type (optional)
  "email": "xx@example.org" // Email address of the domain name administrator (optional, string)
  "ttl": 300, // Default caching duration of the SOA record (optional, string)
}
```

4. Send a request **POST https://DNS endpoint/v2/zones**.
5. Check the request response.

#### NOTE

- The request result may be successful or failed in the response.
- If the request fails, an error code and error information are returned. For details, see [Error Code](#).
- For details about parameters in the response, see [Creating a Public Zone](#).
- For details about general return codes in the response, see [Status Code](#).

The following is an example response of a successful request:

```
STATUS CODE 200
{
  "id": "2c9eb155587194ec01587224c9f90149",
  "name": "example.com.",
  "description": "This is an example zone.",
  "email": "xx@example.com",
  "ttl": 300,
  "serial": 1,
  "masters": [],
  "status": "PENDING_CREATE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149"
  },
  "pool_id": "00000000570e54ee01570e9939b20019",
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "zone_type": "public",
  "created_at": "2016-11-17T11:56:03.439",
  "updated_at": null,
  "record_num": 0
}
```

6. Add **Content-Type** and **X-Auth-Token** in the request header.
7. Specify the following parameters in the request body:

```
{
  "name": "example.com.", // Zone name (mandatory, string)
  "description": "This is an example record set.", // Description of the record set (optional, string)
  "type": "A", // Record set type (mandatory, string)
  "ttl": 3600, // Caching duration of the record set (optional, integer)
  "records": [
    "192.168.10.1",
    "192.168.10.2"
  ] // Values of the record set (mandatory, list<string>)
}
```

8. Send a request **POST https://DNS endpoint/v2/zones/{zone\_id}/recordsets**, where **zone\_id** is the ID of the zone to which the record set is to be added.
9. Check the request response.

```
STATUS CODE 200
{
  "id": "2c9eb155587228570158722b6ac30007",
  "name": "example.com.",
  "description": "This is an example record set.",
  "type": "A",
}
```

```
{
  "ttl": 300,
  "records": [
    "192.168.10.1",
    "192.168.10.2"
  ],
  "status": "PENDING_CREATE",
  "links": {
    "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
  },
  "zone_id": "ff8080825b8fc86c015b94bc6f8712c3",
  "zone_name": "example.com.",
  "create_at": "2017-04-22T08:17:08.997",
  "update_at": null,
  "default": false,
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
}
```

## 5.2 Example2: Creating a Private Zone

### Scenarios

If you want users to access your ECSs using private domain names so that the ECSs are not exposed to the Internet, you can create private zones in the DNS service and add A record sets for the zone.

This section describes how to create a private zone by calling the API in [Creating a Private Zone](#) and create a record set by calling the API in [Creating a Record Set](#). For details about how to call APIs, see [Calling APIs](#).

#### NOTE

The token obtained from IAM is valid for only 24 hours. If you want to use one token for authentication, you can cache it to avoid frequently calling the IAM API.

### Prerequisites

You have planned the region where you want to use private domain names and determined the endpoint for calling an API based on the region. For details, see [Endpoints](#).

### Involved APIs

You need to obtain a token and add **X-Auth-Token** to the request header of API calls.

- IAM API for obtaining a token
- DNS API for creating a private zone
- DNS API for creating a record set

### Procedure

1. Obtain the token by referring to [Authentication](#).
2. Add **Content-Type** and **X-Auth-Token** in the request header.
3. Specify the following parameters in the request body:

```
{
  "name": "example.com.", // Zone name (mandatory, string)
```

```
"description": "This is an example zone.", // Description of the zone (optional, string)
"zone_type": "private", // Zone type (optional, string)
"email": "xx@example.com" // Email address of the domain name administrator (optional, string)
"router": {
  "router_id": "19664294-0bf6-4271-ad3a-94b8c79c6558", // VPC ID (mandatory, string)
  "router_region": "xx" // Region of the VPC (optional, string)
}
}
```

4. Send a request **POST https://DNS endpoint/v2/zones**.
5. Check the request response.

#### NOTE

- The request result may be successful or failed in the response.
- If the request fails, an error code and error information are returned. For details, see [Error Code](#).
- For details about parameters in the response, see [Creating a Private Zone](#).
- For details about general return codes in the response, see [Status Code](#).

The following is an example response of a successful request:

```
STATUS CODE 200
{
  "id": "ff8080825b8fc86c015b94bc6f8712c3",
  "name": "example.com.",
  "description": "This is an example zone.",
  "email": "xx@example.com",
  "ttl": 300,
  "serial": 1,
  "masters": [],
  "status": "PENDING_CREATE",
  "links": {
    "self": "https://Endpoint/v2/zones/ff8080825b8fc86c015b94bc6f8712c3"
  },
  "pool_id": "ff8080825ab738f4015ab7513298010e",
  "project_id": "e55c6f3dc4e34c9f86353b664ae0e70c",
  "zone_type": "private",
  "created_at": "2017-04-22T08:17:08.997",
  "updated_at": null,
  "record_num": 0,
  "router": {
    "status": "PENDING_CREATE",
    "router_id": "19664294-0bf6-4271-ad3a-94b8c79c6558",
    "router_region": "xx"
  }
}
```

6. Add **Content-Type** and **X-Auth-Token** in the request header.
7. Specify the following parameters in the request body:

```
{
  "name": "example.com.", // Record set name (mandatory, string)
  "description": "This is an example record set.", // Description of the record set (optional, string)
  "type": "A", // Record set type (mandatory, string)
  "ttl": 3600, // Caching duration of the record set (optional, integer)
  "records": [
    "192.168.10.1",
    "192.168.10.2"
  ] // Values of the record set (mandatory, list<string>)
}
```

8. Send a request **POST https://DNS endpoint/v2/zones/{zone\_id}/recordsets**, where **zone\_id** is the ID of the zone to which the record set is to be added.
9. Check the request response.

```
STATUS CODE 200
{
  "id": "2c9eb155587228570158722b6ac30007",
```

```
"name": "example.com.",
"description": "This is an example record set.",
"type": "A",
"ttl": 300,
"records": [
  "192.168.10.1",
  "192.168.10.2"
],
"status": "PENDING_CREATE",
"links": {
  "self": "https://Endpoint/v2/zones/2c9eb155587194ec01587224c9f90149/recordsets/2c9eb155587228570158722b6ac30007"
},
"zone_id": "ff8080825b8fc86c015b94bc6f8712c3",
"zone_name": "example.com.",
"create_at": "2017-04-22T08:17:08.997",
"update_at": null,
"default": false,
"project_id": "e55c6f3dc4e34c9f86353b664ae0e70c"
}
```

# 6 Appendix

## 6.1 Status Code

- Normal

**Table 6-1** Return code for successful requests

| Returned Value | Description        |
|----------------|--------------------|
| 200            | Request succeeded. |
| 202            | Request accepted.  |
| 204            | No content.        |

- Abnormal

**Table 6-2** Return code for failed requests

| Returned Value         | Description                                                            |
|------------------------|------------------------------------------------------------------------|
| 400 Bad Request        | The server fails to process the request.                               |
| 401 Unauthorized       | You must enter the username and password to access the requested page. |
| 403 Forbidden          | You are forbidden to access the requested page.                        |
| 404 Not Found          | The server cannot find the requested page.                             |
| 405 Method Not Allowed | You are not allowed to use the method specified in the request.        |
| 406 Not Acceptable     | The response generated by the server is not acceptable to the client.  |



| Returned Value                    | Description                                                                   |
|-----------------------------------|-------------------------------------------------------------------------------|
| 407 Proxy Authentication Required | You must use the proxy server for authentication.                             |
| 408 Request Timeout               | The request is timed out.                                                     |
| 409 Conflict                      | The request cannot be processed due to a conflict.                            |
| 413 Payload Too Large             | The request is too large.                                                     |
| 500 internal Server Error         | The request fails because the server is abnormal.                             |
| 501 Not Implemented               | The request fails because the server does not support the requested function. |
| 502 Bad Gateway                   | The request fails because the returned response is invalid.                   |
| 503 Service Unavailable           | The request fails because the system is abnormal.                             |
| 504 Gateway Timeout               | Gateway times out.                                                            |

## 6.2 Error Code

### Introduction

When an API call encounters an error, an error structure is returned. The following table describes DNS error codes.

### Error Code Structure Format

```
{  
  "code": "DNS.0001",  
  "message": "Internal error."  
}
```

## Error Code Description

**Table 6-3** Error codes

| Status Code | Error Code | Message                                 | Description           | Handling Measure                                                      |
|-------------|------------|-----------------------------------------|-----------------------|-----------------------------------------------------------------------|
| 500         | DNS.0000   | The system is busy.<br>Try again later. | Unknown error.        | Retry the operation. If the error persists, contact customer service. |
| 500         | DNS.0001   | Internal error.                         | Internal error.       | Retry the operation. If the error persists, contact customer service. |
| 400         | DNS.0002   | Invalid request.                        | Invalid request.      | Check whether the request parameter is empty or invalid.              |
| 500         | DNS.0003   | The system is busy.<br>Try again later. | DB exception.         | Retry the operation. If the error persists, contact customer service. |
| 404         | DNS.0004   | No record sets found.                   | No record sets found. | Check whether the resource is available.                              |

| Status Code | Error Code | Message                                           | Description                                       | Handling Measure                                                                                                                                                                                 |
|-------------|------------|---------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 401         | DNS.0005   | Authentication required.                          | Authentication required.                          | <ol style="list-style-type: none"> <li>1. When you call an API, check whether the token is valid.</li> <li>2. Check whether you have operation permission on the requested resources.</li> </ol> |
| 400         | DNS.0006   | The limit parameter is invalid.                   | The <b>limit</b> parameter is invalid.            | Check the value of <b>limit</b> in the request.                                                                                                                                                  |
| 400         | DNS.0007   | The marker parameter is invalid.                  | The <b>marker</b> parameter is invalid.           | Check the value of <b>marker</b> in the request.                                                                                                                                                 |
| 400         | DNS.0008   | The zone of this type is not supported now.       | The zone of this type is not supported now.       | Check the zone type and try again.                                                                                                                                                               |
| 400         | DNS.0009   | The startTime parameter is invalid.               | The <b>startTime</b> parameter is invalid.        | Check the value of <b>startTime</b> in the request.                                                                                                                                              |
| 400         | DNS.0010   | The endTime parameter is invalid.                 | The <b>endTime</b> parameter is invalid.          | Check the value of <b>endTime</b> in the request.                                                                                                                                                |
| 400         | DNS.0011   | The Start parameter is invalid.                   | The <b>start</b> parameter is invalid.            | Check the value of <b>start</b> in the request.                                                                                                                                                  |
| 500         | DNS.0012   | An error occurred when the VPC service is called. | An error occurred when the VPC service is called. | Retry the operation. If the error persists, contact customer service.                                                                                                                            |

| Status Code | Error Code | Message                                                                                             | Description                                                              | Handling Measure                                                                                                                                       |
|-------------|------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 403         | DNS.0013   | You do not have the permission to perform this operation using the API.                             | You do not have the permission to perform this operation using the API.  | The project of the requested resource may be frozen. Log in to the IAM console with the domain account and check whether the project status is normal. |
| 403         | DNS.0014   | Request forbidden by flow control.                                                                  | Request forbidden by flow control.                                       | Try again some time later.                                                                                                                             |
| 500         | DNS.0015   | An error occurred when the IAM service is called.                                                   | An error occurred when the IAM service is called.                        | Retry the operation. If the error persists, contact customer service.                                                                                  |
| 400         | DNS.0016   | This record already exists or conflicts with another record.                                        | This record already exists.                                              | Check the record.                                                                                                                                      |
| 400         | DNS.0017   | The offset parameter is invalid.                                                                    | The <b>offset</b> parameter is invalid.                                  | Check the value of <b>offset</b> in the request.                                                                                                       |
| 409         | DNS.0021   | Could not acquire the lock, please try again later.                                                 | Failed to obtain the lock.                                               | Try again later.                                                                                                                                       |
| 400/500     | DNS.0022   | An error occurred when the Cloud Eye service is called.                                             | An error occurred when Cloud Eye is called.                              | Retry the operation. If the error persists, contact customer service.                                                                                  |
| 500         | DNS.0023   | An error occurred when the Cloud Eye service is called. Cloud Eye service response: Read timed out. | An error occurred when the Cloud Eye service is called (Read timed out). | Retry the operation. If the error persists, contact customer service.                                                                                  |

| Status Code | Error Code | Message                                                                                                          | Description                                                                  | Handling Measure                                                        |
|-------------|------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 500         | DNS.0024   | An error occurred when the Cloud Eye service is called. Connect to Cloud Eye service failed: Connection refused. | An error occurred when the Cloud Eye service is called (Connection refused). | Retry the operation. If the error persists, contact customer service.   |
| 500         | DNS.0025   | An error occurred when the Cloud Eye service is called. Connect to Cloud Eye service failed: connect timed out.  | An error occurred when the Cloud Eye service is called (Read timed out).     | Retry the operation. If the error persists, contact customer service.   |
| 500         | DNS.0026   | Invalid CES endpoint configuration.                                                                              | Invalid Cloud Eye endpoint configuration.                                    | Retry the operation. If the error persists, contact customer service.   |
| 413         | DNS.0027   | Warning: upload file too large.                                                                                  | The file to be uploaded is oversized.                                        | The request body is too large.                                          |
| 400         | DNS.0028   | Invalid version.                                                                                                 | Invalid version number.                                                      | Retry the operation. If the error persists, contact customer service.   |
| 400         | DNS.0029   | Invalid record.                                                                                                  | The <b>record</b> parameter is invalid.                                      | Check the value of <b>offset</b> in the request.                        |
| 403         | DNS.0030   | Operation not allowed for this resource.                                                                         | This operation is not allowed for the requested resource.                    | Check whether you have operation permission on the requested resources. |

| Status Code | Error Code | Message                                                 | Description                                           | Handling Measure                                                                                                                                                                                 |
|-------------|------------|---------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 403         | DNS.0031   | User not allowed.                                       | You do not have permission to perform this operation. | <ol style="list-style-type: none"> <li>1. When you call an API, check whether the token is valid.</li> <li>2. Check whether you have operation permission on the requested resources.</li> </ol> |
| 400         | DNS.0032   | Invalid sort key.                                       | The <b>sort key</b> parameter is invalid.             | Check the value of <b>sort key</b> in the request.                                                                                                                                               |
| 400         | DNS.0033   | Invalid sort dir.                                       | The <b>sort dir</b> parameter is invalid.             | Check the value of <b>sort dir</b> in the request.                                                                                                                                               |
| 400/404/500 | DNS.0034   | An error occurred when the bss service is called.       | The system fails to call the BSS service.             | Retry the operation. If the error persists, contact customer service.                                                                                                                            |
| 400/404/500 | DNS.0035   | An error occurred when the Cloudsite service is called. | The system fails to call CloudSite.                   | Retry the operation. If the error persists, contact customer service.                                                                                                                            |
| 400         | DNS.0036   | An error occurred when the neutron service is called.   | The system fails to call the Neutron service.         | Retry the operation. If the error persists, contact customer service.                                                                                                                            |

| Status Code | Error Code | Message                                        | Description                                    | Handling Measure                                               |
|-------------|------------|------------------------------------------------|------------------------------------------------|----------------------------------------------------------------|
| 403         | DNS.0037   | Feature not supported now.                     | This function is not available currently.      | This function is not available currently.                      |
| 400         | DNS.0038   | The show detail parameter is invalid.          | The <b>show detail</b> parameter is invalid.   | Check the value of <b>show detail</b> in the request.          |
| 400         | DNS.0101   | Invalid pool name.                             | Invalid pool name.                             | Check the pool name in the request.                            |
| 400         | DNS.0102   | Invalid pool description.                      | Invalid pool description.                      | Check the pool description in the request.                     |
| 400         | DNS.0103   | Invalid pool type.                             | Invalid pool type.                             | Check whether the pool type you specify is supported or valid. |
| 400         | DNS.0104   | Invalid server configuration in the pool.      | Invalid server configuration in the pool.      | Check the host configuration in the pool.                      |
| 400         | DNS.0105   | Invalid name server configuration in the pool. | Invalid name server configuration in the pool. | Check the name server configuration.                           |
| 400         | DNS.0106   | Invalid pool region.                           | Invalid region for parameter <b>pool</b> .     | Check the region configuration.                                |
| 400         | DNS.0107   | Invalid pool ID.                               | Invalid pool ID.                               | Check the pool ID in the request.                              |
| 404         | DNS.0108   | This pool does not exist.                      | This pool does not exist.                      | Check whether the pool is available.                           |
| 400         | DNS.0109   | This pool is in use.                           | This pool is in use.                           | A pool in use cannot be deleted. Contact customer service.     |

| Status Code | Error Code | Message                                                                            | Description                                                                        | Handling Measure                                                                                                                                                                                    |
|-------------|------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | DNS.0201   | The email address of the zone is invalid.                                          | The email address of the zone is invalid.                                          | Check the email address in the request.                                                                                                                                                             |
| 400         | DNS.0202   | Invalid zone name.                                                                 | Invalid zone name.                                                                 | <ol style="list-style-type: none"> <li>1. Check whether the zone name format is correct.</li> <li>2. Ensure that the zone name cannot be a top-level or public second-level domain name.</li> </ol> |
| 400         | DNS.0203   | Invalid zone TTL value. The value ranges from %s to %s.                            | Invalid TTL value.                                                                 | Check the TTL value in the request. If the limit does not meet your requirements, contact customer service.                                                                                         |
| 400         | DNS.0204   | Invalid zone type.                                                                 | Invalid zone type.                                                                 | Check whether the zone type you specify is supported.                                                                                                                                               |
| 404/500     | DNS.0205   | No pools available.                                                                | No pools available.                                                                | Contact customer service.                                                                                                                                                                           |
| 400         | DNS.0206   | Invalid zone description. The description can contain a maximum of 255 characters. | Invalid zone description. The description can contain a maximum of 255 characters. | Check the zone description in the request.                                                                                                                                                          |
| 500         | DNS.0207   | No views available in the pool.                                                    | No views available.                                                                | Contact customer service.                                                                                                                                                                           |



| Status Code | Error Code | Message                                             | Description                                         | Handling Measure                                                                   |
|-------------|------------|-----------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------|
| 400         | DNS.0208   | This zone already exists.                           | This zone already exists.                           | Check whether the requested zone already exists.                                   |
| 400/409/500 | DNS.0209   | The zone is not in the Normal state.                | The zone is not in the normal state.                | The zone status is not stable. Try again later.                                    |
| 400         | DNS.0210   | The zone name is used by the system.                | The zone name is used by the system.                | Check the zone name in the request.                                                |
| 400         | DNS.0211   | The zone name is used by another tenant.            | The zone name is used by another tenant.            | Check the zone name in the request.                                                |
| 400/409     | DNS.0212   | This VPC has already been associated with the zone. | This VPC has already been associated with the zone. | Check whether that the VPC has been associated with the private zone.              |
| 400         | DNS.0213   | The zone is disabled.                               | The domain name has been suspended.                 | Check the zone status.                                                             |
| 400         | DNS.0301   | Invalid zone ID.                                    | Invalid zone ID.                                    | Check the zone ID in the request.                                                  |
| 400/404     | DNS.0302   | This zone does not exist.                           | This zone does not exist.                           | Check the zone of the requested record set.                                        |
| 400         | DNS.0303   | Invalid record set TTL value.                       | Invalid record set TTL value.                       | Check the TTL value in the request.                                                |
| 400         | DNS.0304   | Invalid record set name.                            | Invalid record set name.                            | Check whether the record set name is a valid domain name ended with the zone name. |

| Status Code | Error Code | Message                                                                                  | Description                                                                              | Handling Measure                                                                 |
|-------------|------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 400         | DNS.0305   | Invalid record set description. The description can contain a maximum of 255 characters. | Invalid record set description. The description can contain a maximum of 255 characters. | Check the record set description in the request.                                 |
| 400         | DNS.0307   | Invalid record set type.                                                                 | Invalid record set type.                                                                 | Check whether the record set type you specify is supported.                      |
| 400         | DNS.0308   | Invalid record set value.                                                                | Invalid record set value.                                                                | Check whether the record set value you specify is well-formatted.                |
| 400         | DNS.0309   | Invalid record set ID.                                                                   | Invalid record set ID.                                                                   | Check the record set ID in the request.                                          |
| 400/403     | DNS.0310   | Invalid tenant ID.                                                                       | Invalid tenant ID.                                                                       | Check whether the tenant ID is empty or in incorrect format.                     |
| 400/403     | DNS.0311   | Invalid domain ID.                                                                       | Invalid domain ID.                                                                       | Check whether the domain ID is empty or in incorrect format.                     |
| 400         | DNS.0312   | This record set name already exists.                                                     | This record set already exists.                                                          | Check whether the record set name already exists.                                |
| 404         | DNS.0313   | This record set does not exist.                                                          | This record set does not exist.                                                          | Check the requested record set.                                                  |
| 400/409     | DNS.0314   | The record set is not in a steady state.                                                 | The record set is not in a steady state.                                                 | Check the record set status. If it is not stable, you cannot perform operations. |

| Status Code | Error Code | Message                                                                                                    | Description                                                                               | Handling Measure                                                                                            |
|-------------|------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 400         | DNS.0315   | Invalid status.                                                                                            | Invalid status.                                                                           | Check the status in the request.                                                                            |
| 400/409     | DNS.0317   | This record set is a default one and cannot be deleted.                                                    | This record set is a default one and cannot be deleted.                                   | Check whether the record set to be deleted is created by default.                                           |
| 400/409     | DNS.0318   | This record set is a default one and cannot be updated.                                                    | This record set is a default one and cannot be updated.                                   | Check whether the record set to be updated is created by default.                                           |
| 400         | DNS.0319   | The TTL parameter has been out of range.                                                                   | The TTL value is out of range. The value ranges from <b>{minTTL}</b> to <b>{maxTTL}</b> . | Check the TTL value in the request. If the limit does not meet your requirements, contact customer service. |
| 400         | DNS.0320   | The Zone name levels have been out of MAX count. The maximum is %s.                                        | The zone name levels have been out of MAX count. The maximum is <b>{maxLevel}</b> .       | Check the domain name level in the request.                                                                 |
| 400         | DNS.0321   | The sub domain levels have been out of MAX count.                                                          | The subdomain levels have been out of MAX count. The maximum is <b>{maxLevel}</b> .       | Check the subdomain name in the request.                                                                    |
| 400         | DNS.0322   | The number of weighted record sets with the same name, type, and resolution line has reached the limit %s. | The number of record sets of the same name, type, and resolution line exceeds the limit.  | If the limit does not meet your requirements, contact customer service.                                     |
| 400         | DNS.0323   | The weight must range from %s to %s.                                                                       | The weight must range from 0 to 100.                                                      | Change the weight value.                                                                                    |

| Status Code | Error Code | Message                                                                                                                                    | Description                                                                             | Handling Measure                                           |
|-------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------|
| 400         | DNS.0324   | This record set is a default one and cannot be operated.                                                                                   | You cannot perform this operation on a default record set.                              | You cannot perform this operation on a default record set. |
| 400         | DNS.0325   | The resolution line for record sets in this type of zones must be 'default_view'.                                                          | The resolution line for record sets in this type of zones must be <b>default_view</b> . | Change the resolution line in the request.                 |
| 400         | DNS.0326   | The batch number has been out of MAX count. The maximum is %s.                                                                             | The batch number has been out of MAX count.                                             | Modify the request parameter.                              |
| 400         | DNS.0327   | The batch number has been out of MAX count. The maximum is %s.                                                                             | The batch number has been out of MAX count.                                             | Modify the request parameter.                              |
| 400         | DNS.0328   | Cannot create this record set because the same one already exists but is not weighted. Specify a weight for the previous record set first. | Specify a weight for the previous record set first.                                     | Specify a weight for the previous record set first.        |
| 400         | DNS.0329   | The batch number has been out of MAX count. The maximum is %s.                                                                             | The number of requested resources has exceeded the limit.                               | Modify the request parameter.                              |
| 400         | DNS.0330   | Invalid alias resource type.                                                                                                               | The resource type of parameter <b>alias</b> is invalid.                                 | Check the resource type of the alias.                      |
| 400         | DNS.0331   | Invalid alias resource domain name.                                                                                                        | The domain name of parameter <b>alias</b> is invalid.                                   | Check the value of <b>alias</b> in the request.            |
| 400         | DNS.0332   | The alias must be a domain name of a cloud resource.                                                                                       | The alias domain name must be hosted on the DNS server.                                 | Check the value of <b>alias</b> in the request.            |

| Status Code | Error Code | Message                         | Description                      | Handling Measure                                                                                                           |
|-------------|------------|---------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 400         | DNS.0333   | The alias is not supported now. | Alias records are not supported. | Contact customer service.                                                                                                  |
| 400         | DNS.0401   | Invalid quota type.             | Invalid quota type.              | Check the quota type in the request.                                                                                       |
| 400         | DNS.0402   | Invalid quota value.            | Invalid quota value.             | The quota value exceeds the limit. Contact customer service.                                                               |
| 403         | DNS.0403   | Insufficient record set quota.  | Insufficient record set quota.   | The number of record sets exceeds the quota limit. If the limit does not meet your requirements, contact customer service. |
| 403         | DNS.0404   | Insufficient zone quota.        | Insufficient zone quota.         | The number of zones exceeds the quota limit. If the limit does not meet your requirements, contact customer service.       |
| 403         | DNS.0405   | Insufficient PTR record quota.  | Insufficient PTR record quota.   | The number of PTR records exceeds the quota limit. If the limit does not meet your requirements, contact customer service. |

| Status Code | Error Code | Message                               | Description                       | Handling Measure                                                                                                                      |
|-------------|------------|---------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 403         | DNS.0406   | Insufficient inbound endpoint quota.  | Insufficient inbound rule quota.  | The number of inbound endpoints has reached the upper limit. If the limit does not meet your requirements, contact customer service.  |
| 403         | DNS.0407   | Insufficient outbound endpoint quota. | Insufficient outbound rule quota. | The number of outbound endpoints has reached the upper limit. If the limit does not meet your requirements, contact customer service. |
| 403         | DNS.0408   | Insufficient custom line quota.       | Insufficient custom line quota.   | The number of custom lines has reached the limit. If the limit does not meet your requirements, contact customer service.             |
| 403         | DNS.0409   | Insufficient line group quota.        | Insufficient line group quota.    | The number of line groups has reached the limit. If the limit does not meet your requirements, contact customer service.              |
| 400         | DNS.0501   | Invalid PTR ID.                       | Invalid PTR record ID.            | Check whether the PTR record ID is empty or in incorrect format.                                                                      |

| Status Code | Error Code | Message                                                                           | Description                                                                              | Handling Measure                                                                 |
|-------------|------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 404         | DNS.0502   | This EIP address does not exist.                                                  | The EIP does not exist.                                                                  | Check whether the EIP is available.                                              |
| 409         | DNS.0503   | The PTR record is not in a steady state.                                          | The PTR record is not in a steady state.                                                 | Check the PTR record status. If it is not stable, you cannot perform operations. |
| 400/500     | DNS.0504   | Invalid EIP address ID.                                                           | Invalid EIP ID.                                                                          | Check whether the EIP ID is empty or in incorrect format.                        |
| 400         | DNS.0505   | Invalid domain name in the PTR record.                                            | Invalid domain name in the PTR record.                                                   | Check the domain name in the PTR record.                                         |
| 400         | DNS.0506   | Invalid PTR TTL value. The value must range from %s to %s.                        | Invalid PTR record TTL value. The value ranges from 1 to <b>2147483647</b> .             | Check whether the PTR record TTL value exceeds the limit.                        |
| 404         | DNS.0507   | This PTR record does not exist.                                                   | This PTR record does not exist.                                                          | Check the requested PTR record.                                                  |
| 400         | DNS.0508   | Invalid PTR description. The description can contain a maximum of 255 characters. | Invalid PTR record description. The description can contain a maximum of 255 characters. | Check whether the PTR record description in the request exceeds 255 characters.  |
| 400         | DNS.0601   | Invalid region.                                                                   | Invalid region.                                                                          | Check the value of <b>region</b> in the request.                                 |
| 400         | DNS.0602   | Invalid floating IP address.                                                      | Invalid floating IP address.                                                             | Check the floating IP address in the request.                                    |

| Status Code | Error Code | Message                                                                                              | Description                                                                                          | Handling Measure                                                                                    |
|-------------|------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 400         | DNS.0603   | Invalid request.                                                                                     | Invalid input.                                                                                       | Check whether the request parameter is empty.                                                       |
| 400         | DNS.0604   | The interval parameter is invalid.                                                                   | The <b>interval</b> parameter is invalid.                                                            | Check the value of <b>interval</b> in the request.                                                  |
| 400         | DNS.0608   | This resource is in use.                                                                             | This resource is in use.                                                                             | Check whether the resource is in use.                                                               |
| 400         | DNS.0701   | Invalid VPC.                                                                                         | Invalid VPC.                                                                                         | Check the VPC ID and region in the request.                                                         |
| 400         | DNS.0704   | The VPC is not in a steady state.                                                                    | The VPC is not in a steady state.                                                                    | Check whether the zone and VPC are normally associated.                                             |
| 400         | DNS.0705   | No VPCs are associated with this zone.                                                               | No VPCs are associated with this zone.                                                               | Associate the zone with a VPC and try again.                                                        |
| 403         | DNS.0706   | You are not allowed to disassociate this VPC because this is the last VPC associated with this zone. | You are not allowed to disassociate this VPC because this is the last VPC associated with this zone. | Associate another VPC with the zone and then disassociate the previous one.                         |
| 400         | DNS.0707   | The VPC is not associated with the zone.                                                             | The VPC is not associated with the zone.                                                             | Check whether the zone is associated with the VPC.                                                  |
| 400         | DNS.0708   | This VPC cannot be disassociated because it is being associated with the zone.                       | This VPC cannot be disassociated because it is being associated with the zone.                       | Check the association status between the zone and VPC. Disassociate them when the status is stable. |



| Status Code | Error Code | Message                                                                                         | Description                                                                                     | Handling Measure                                                                                                                                                                                                                                                                             |
|-------------|------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 403         | DNS.0709   | This VPC cannot be disassociated because this is the only normal VPC associated with this zone. | This VPC cannot be disassociated because this is the only normal VPC associated with this zone. | Check whether other VPCs are normally associated with the zone. If no, perform the following operations: <ol style="list-style-type: none"> <li>1. Disassociate VPCs in abnormal association state.</li> <li>2. Associate another VPC.</li> <li>3. Disassociate the required VPC.</li> </ol> |
| 500         | DNS.0710   | Invalid VPC URL configuration.                                                                  | Invalid VPC endpoint configuration.                                                             | Check the region in the request. If the region is correct, contact customer service.                                                                                                                                                                                                         |
| 404         | DNS.0711   | This VPC could not be found.                                                                    | This VPC could not be found.                                                                    | Log in to the VPC console and check whether the VPC exists.                                                                                                                                                                                                                                  |
| 400         | DNS.0712   | This port parameter is invalid.                                                                 | The port ID is invalid.                                                                         | Check whether the port ID in the request is empty.                                                                                                                                                                                                                                           |
| 400/500     | DNS.0805   | Failed to check the VPC validity.                                                               | Failed to check the VPC validity.                                                               | Retry the operation. If the error persists, contact customer service.                                                                                                                                                                                                                        |

| Status Code | Error Code | Message                                                          | Description                                                      | Handling Measure                                                                                                                      |
|-------------|------------|------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 404         | DNS.0901   | The name server does not exist.                                  | The name server does not exist.                                  | Contact customer service.                                                                                                             |
| 400         | DNS.1001   | Insufficient tag quota.                                          | Insufficient tag quota.                                          | The number of tags reaches the quota limit. If the limit does not meet your requirements, contact customer service.                   |
| 400         | DNS.1002   | Invalid resource type.                                           | Invalid resource type.                                           | Check the resource type in the request.                                                                                               |
| 400         | DNS.1003   | Invalid tag.                                                     | Invalid tag.                                                     | Check the tag in the request.                                                                                                         |
| 400         | DNS.1101   | Health check is currently not supported.                         | Health check is currently not supported.                         | Health check is currently not supported.                                                                                              |
| 400         | DNS.1102   | Invalid health check ID.                                         | Invalid health check ID.                                         | Change the health check ID in the request.                                                                                            |
| 400         | DNS.1103   | This health check is disabled.                                   | This health check is disabled.                                   | <ol style="list-style-type: none"> <li>1. Check whether the health check is disabled.</li> <li>2. Enable the health check.</li> </ol> |
| 400         | DNS.1104   | This record set has already been associated with a health check. | This record set has already been associated with a health check. | One record set can be associated with only one health check.                                                                          |
| 404         | DNS.1105   | No health check is associated with this record set.              | No health check is associated with this record set.              | No health check is associated with this record set.                                                                                   |

| Status Code | Error Code | Message                                                                                                                         | Description                                                                                                                     | Handling Measure                                    |
|-------------|------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 404         | DNS.1106   | Cannot find the health check.                                                                                                   | Cannot find the health check.                                                                                                   | Change the health check ID in the request.          |
| 400         | DNS.1107   | Insufficient health check quota. Contact customer service to increase quotas.                                                   | Insufficient health check quota.                                                                                                | Contact customer service.                           |
| 400         | DNS.1108   | Cannot associate the health check with the record set because its network plane does not match the zone type of the record set. | Cannot associate the health check with the record set because its network plane does not match the zone type of the record set. | Change the ID of the health check to be associated. |
| 400         | DNS.1109   | This health check is in detecting status and not available currently.                                                           | This health check is in detecting status and not available currently.                                                           | Try again later.                                    |
| 500         | DNS.1110   | Invalid CES health check region configuration.                                                                                  | Invalid health check region configuration.                                                                                      | Contact customer service.                           |
| 400         | DNS.1301   | Failed to parse this upload file.                                                                                               | Failed to obtain data from the uploaded file.                                                                                   | Check the uploaded file.                            |
| 400         | DNS.1302   | Empty upload file.                                                                                                              | The uploaded file is empty.                                                                                                     | Check the uploaded file.                            |
| 400         | DNS.1303   | Only .xlsx files are supported.                                                                                                 | Only .xlsx files are supported.                                                                                                 | Check the uploaded file.                            |
| 400         | DNS.1304   | Invalid task ID.                                                                                                                | Invalid task ID.                                                                                                                | Check the task ID.                                  |
| 400         | DNS.1305   | Invalid record set type.                                                                                                        | Invalid record set type.                                                                                                        | Check the task ID.                                  |
| 400         | DNS.1306   | Stop export: too many row exceed max limit.                                                                                     | The number of exported record sets exceeds the maximum.                                                                         | Contact customer service.                           |
| 400         | DNS.1401   | Invalid package name.                                                                                                           | Invalid package name.                                                                                                           | Check the package name.                             |

| Status Code | Error Code | Message                             | Description                                | Handling Measure                                                  |
|-------------|------------|-------------------------------------|--------------------------------------------|-------------------------------------------------------------------|
| 400         | DNS.1402   | Failed to purchase the DNS package. | Failed to purchase the DNS package.        | Check the package name.                                           |
| 404         | DNS.1403   | The package does not exist.         | The package does not exist.                | Check the package ID.                                             |
| 400         | DNS.1501   | Invalid endpoint name.              | Invalid endpoint name.                     | Check the endpoint name.                                          |
| 400         | DNS.1502   | Invalid subnet id.                  | Invalid subnet ID.                         | Check the subnet ID.                                              |
| 400         | DNS.1503   | Invalid endpoint direction.         | Invalid endpoint direction.                | Check the endpoint direction.                                     |
| 400         | DNS.1504   | Endpoint name exists.               | The endpoint name already exists.          | Change the endpoint name.                                         |
| 400         | DNS.1505   | Ip is not in this subnet.           | The IP address is not in the subnet.       | Enter an IP address within the subnet.                            |
| 400         | DNS.1506   | Ip is repeated.                     | The IP address already exists.             | The IP address already exists. Change the IP address you entered. |
| 400         | DNS.1507   | Ip has been used.                   | The IP address has been used.              | Change the IP address.                                            |
| 400         | DNS.1508   | Subnets are in the different vpc.   | The subnets do not belong to the same VPC. | Check the subnet information.                                     |
| 400         | DNS.1509   | Invalid endpoint id.                | Invalid endpoint ID.                       | Enter a correct endpoint ID.                                      |
| 404         | DNS.1510   | Endpoint not exist.                 | The endpoint does not exist.               | Check the endpoint ID.                                            |
| 404         | DNS.1511   | Ipaddress not exist.                | The IP address does not exist.             | Change the IP address you entered.                                |

| Status Code | Error Code | Message                                                 | Description                                               | Handling Measure                                                                    |
|-------------|------------|---------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|
| 400         | DNS.1514   | Invalid number of ipaddress.                            | Invalid IP address quantity.                              | Check whether the number of IP addresses is in the range of 2 to 6.                 |
| 400         | DNS.1515   | Ip address is invalid.                                  | Invalid IP address.                                       | Check the IP address you entered.                                                   |
| 400         | DNS.1516   | Ip address is broadcast ipaddress or network ipaddress. | The IP address is a network address or broadcast address. | Check whether the IP address you entered is a broadcast address or network address. |
| 400         | DNS.0806   | This line is not be supported in this DNS version.      | This line is not supported in this DNS version.           | Check the resolution line name in the request.                                      |
| 409         | DNS.0807   | This line is a default one and cannot be operated.      | This line is a default one and cannot be operated.        | Check the resolution line name in the request.                                      |
| 400         | DNS.1601   | Invalid line ID.                                        | Invalid resolution line ID.                               | Check the resolution line ID in the request.                                        |
| 400         | DNS.1602   | Invalid line name.                                      | Invalid resolution line name.                             | Check the resolution line name in the request.                                      |
| 400         | DNS.1603   | The line name already exists.                           | The resolution line name has been used.                   | Change the resolution line name in the request.                                     |
| 404         | DNS.1604   | The line does not exist.                                | The resolution line does not exist.                       | Check the resolution line in the request.                                           |
| 400         | DNS.1605   | Invalid IP address range.                               | Invalid IP address range.                                 | Check the IP address range in the request.                                          |

| Status Code | Error Code | Message                                                  | Description                                           | Handling Measure                                                                                                                                                                                          |
|-------------|------------|----------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | DNS.1606   | The IP address range overlaps with that in another line. | The IP address ranges overlap.                        | <ol style="list-style-type: none"> <li>1. Check whether the IP address ranges in the request overlap each other.</li> <li>2. Check whether the IP address ranges overlap those in other lines.</li> </ol> |
| 409         | DNS.1607   | This line is not in a steady state.                      | The resolution line is in the unstable state.         | Retry the operation. If the error persists, contact customer service.                                                                                                                                     |
| 400         | DNS.1608   | The IP segments has been out of MAX count.               | The number of IP address ranges exceeds the maximum.  | Check the number of IP address ranges in the request.                                                                                                                                                     |
| 500         | DNS.1801   | An error occurred when the IAM PDP service is called.    | The IAM PDP service cannot be properly called.        | Retry the operation. If the error persists, contact customer service.                                                                                                                                     |
| 403         | DNS.1802   | Policy doesn't allow {action} to be performed.           | You do not have permission to perform this operation. | Check the permission of the user group.                                                                                                                                                                   |
| 500         | DNS.1901   | Invalid EPS endpoint configuration.                      | Invalid EPS endpoint configuration.                   | Contact customer service.                                                                                                                                                                                 |

| Status Code | Error Code | Message                                                    | Description                                                        | Handling Measure                                                                                                             |
|-------------|------------|------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 500         | DNS.1902   | An error occurred when the EPS service is called.          | The system fails to call the EPS service.                          | Retry the operation. If the error persists, contact customer service.                                                        |
| 500         | DNS.2000   | Invalid Quota Manage service endpoint configuration.       | Invalid endpoint configuration of the quota management service.    | Contact customer service.                                                                                                    |
| 500         | DNS.2001   | An error occurred when the Quota Manage service is called. | An exception occurred when the quota management service is called. | Contact customer service.                                                                                                    |
| 403         | DNS.2002   | Insufficient domain quota.                                 | Insufficient tenant resource quota.                                | The number of resources has reached the quota limit. If the limit does not meet your requirements, contact customer service. |

## 6.3 Enumeration Values

### Resource Status

| Parameter       | Description |
|-----------------|-------------|
| ACTIVE          | Normal      |
| PENDING_CREATE  | Creating    |
| PENDING_DELETE  | Deleting    |
| PENDING_UPDATE  | Updating    |
| FREEZE          | Frozen      |
| PENDING_DISABLE | Disabling   |

| Parameter | Description |
|-----------|-------------|
| DISABLE   | Disabled    |
| ERROR     | Failed      |

## Record Set Type

| Type  | Description                                                                                                                              |
|-------|------------------------------------------------------------------------------------------------------------------------------------------|
| A     | Map domains to IPv4 addresses.                                                                                                           |
| CNAME | Map one domain to another. CNAME record sets are usually used to map multiple domain names to the same host.                             |
| MX    | Map domains to email servers.                                                                                                            |
| AAAA  | Map domains to IPv6 addresses.                                                                                                           |
| TXT   | Specify text records.                                                                                                                    |
| SRV   | Record servers providing specific services.                                                                                              |
| NS    | Delegates subdomains to other name servers.                                                                                              |
| SOA   | Specify the master authoritative DNS server for a domain name. The SOA record set is created by the system and cannot be manually added. |
| CAA   | Grant certificate issuing permissions to CAs. CAA record sets can be used to prevent unauthorized HTTPS certificate issuing.             |
| PTR   | Map IP addresses to domains.                                                                                                             |

## 6.4 Data Structure

**Table 6-4** Description of the **links** field

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| self      | String | Link to the current resource |
| next      | String | Link to the next page        |



**Table 6-5** Description of the **tag** field

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                            |
|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Tag key<br>A key can contain up to 36 Unicode characters. <b>key</b> must be specified. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces.            |
| value     | String | Tag value<br>Each value can contain a maximum of 43 Unicode characters and can be an empty string. Equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars ( ), and slashes (/) are not allowed. The first and last characters cannot be spaces. |

**Table 6-6** Description of the **routers** field

| Parameter     | Type   | Description                                                                                                                                                                                                                                                                                             |
|---------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| router_id     | String | ID of the associated VPC<br>You can obtain the VPC ID using the following methods: <ul style="list-style-type: none"> <li>On the VPC console, obtain the VPC ID on the VPC details page.</li> <li>Obtain the VPC ID according to "Querying VPCs" in <i>Virtual Private Cloud User Guide</i>.</li> </ul> |
| router_region | String | Region of the VPC<br>If it is left blank, the region of the project in the token takes effect by default.                                                                                                                                                                                               |

**Table 6-7** Description of the **alias\_target** field

| Parameter            | Type   | Description                                                                                                             |
|----------------------|--------|-------------------------------------------------------------------------------------------------------------------------|
| resource_type        | String | Service that support domain name aliases<br>The value can be <b>cloudsite</b> or <b>waf</b> (Web Application Firewall). |
| resource_domain_name | String | Domain name of the target service                                                                                       |

## 6.5 Obtaining a Project ID

A project ID is required for some URLs when an API is called. Therefore, you need to obtain a project ID in advance. The steps are as follows:

1. Obtain the token.

For details, see [Token Authentication](#).

2. Obtain a project ID.

The API for obtaining the project ID is **GET https://iam.eu-west-0.myhuaweicloud.com/v3/projects**.

Add **X-Auth-Token** to the request header and set its value to the token obtained in the preceding step.

The following is an example response. The value of **id** is the project ID to be obtained.

```
{
  "links": {},
  "projects": [
    {
      "is_domain": ,
      "description": "",
      "links": {},
      "enabled": true,
      "id": "", // Project ID
      "parent_id": "",
      "domain_id": "",
      "name": ""
    },
    ...
  ]
}
```

# A Change History

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| Date       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2023-11-30 | This issue is the fourth official release, which incorporates the following changes: <ul style="list-style-type: none"><li>• Added <a href="#">Creating a Record Set</a>, <a href="#">Querying a Record Set</a>, <a href="#">Querying All Record Sets</a>, <a href="#">Querying Record Sets in a Zone</a>, <a href="#">Deleting a Record Set</a>, and <a href="#">Modifying a Record Set</a> in <a href="#">Multi-line Record Set Management</a>.</li><li>• Added <a href="#">Quota Management</a>.</li></ul> |
| 2023-03-30 | This issue is the third official release, which incorporates the following changes:<br>Updated <a href="#">Authentication</a> .                                                                                                                                                                                                                                                                                                                                                                               |
| 2021-03-24 | This issue is the second official release, which incorporates the following changes:<br>Supported CAA record sets.                                                                                                                                                                                                                                                                                                                                                                                            |
| 2018-12-29 | This issue is the first official release.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |