

**Flexus L Instance**

# **API Reference**

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# 1 Before You Start

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## Overview

Flexus L Instance (FlexusL) is a next-generation out-of-the-box lightweight cloud server product designed for small- and medium-sized enterprises and developers. FlexusL provides a range of images for you to choose from and is suitable for medium- and light-load scenarios such as website setup, development and testing environment, enterprise applications, website analysis, and audio and video scenarios. It is secure, cost-effective, and easy-to-use.

This document describes the APIs, syntax, parameters, and examples of FlexusL instances.

Before calling an API provided by FlexusL, ensure that you are familiar with this service. For details, see [What Is FlexusL?](#)

## API Calling

Huawei Cloud supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, see [Calling APIs](#).

## Endpoint

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

# 2 API Overview

A FlexusL instance is a package of resources that include cloud servers, EIPs, EVS disks, CBR vaults, and HSS. Cloud servers are servers in a FlexusL instance.

This section describes some common APIs of FlexusL instances. [Learn how to call APIs](#) before using them.

- You can use the APIs according to the sequence from subscribing to a FlexusL instance to logging in to the FlexusL instance according to [Table 1](#).

**Table 2-1** APIs used from subscription to login to a FlexusL instance

API	Description
<a href="#">Purchasing a FlexusL Instance</a>	Used to purchase one or more FlexusL instances.
<a href="#">Querying Created FlexusL Instances</a>	Used to query details about a FlexusL instance, including the status, name, and elastic IP address (EIP) of the FlexusL instance.
<a href="#">Resetting Cloud Server Passwords in a Batch</a>	Used to reset the passwords of FlexusL instance management accounts ( <b>root</b> or <b>Administrator</b> ) in batches.
Remote login	There is no API for remote login. Log in to FlexusL using the following methods: <ul style="list-style-type: none"><li><a href="#">Logging In to a Linux FlexusL Instance Using CloudShell</a></li><li><a href="#">Logging In to a FlexusL Instance Using VNC</a></li></ul> You can also select other login modes by referring to <a href="#">Login Modes</a> .

- You can use common APIs listed in [Table 2-2](#) to maintain FlexusL instances.

**Table 2-2** Common O&M APIs

API	Description
<a href="#">Starting Cloud Servers in a Batch</a>	Used to restart cloud servers in batches based on the specified cloud server IDs.
<a href="#">Restarting Cloud Servers in a Batch</a>	Used to restart cloud servers in batches based on specified cloud server IDs.
<a href="#">Stopping Cloud Servers in a Batch</a>	Used to stop cloud servers in batches based on the specified cloud server IDs.
<a href="#">Modifying the Cloud Server Information of a FlexusL Instance</a>	Used to modify the cloud server information. Currently, the cloud server name, description, and hostname can be modified.
<a href="#">Querying the Remaining Traffic of the Data Package in a FlexusL Instance</a>	Used to query the remaining traffic of the data package in a FlexusL instance.
<a href="#">Renewing a FlexusL Instance</a>	Used to manually renew the subscription to a FlexusL instance.
<a href="#">Unsubscribing from a FlexusL Instance</a>	Used to manually unsubscribe from a FlexusL instance.

# 3 API

## 3.1 Purchasing a FlexusL Instance

### Function

This API is used to subscribe to one or more FlexusL instances.

This API is an asynchronous API. After a subscription API request is delivered, **order\_id** and **instances\_ids** are returned. This means the order is created, but the creation of FlexusL instances has not been completed.

Use the **order\_id** returned by this API to call the API of [Querying Order Details](#). Check the creation status of the FlexusL instances based on the value of **status** in the response message. If the value of **status** is **5**, the FlexusL instances are created.

### API Gateway Address

<https://hcss.ap-southeast-3.myhuaweicloud.com>

### URL

POST /v1/light-instances

### Request Message

**Table 3-1** Header parameters

Parameter	Mandatory	Type	Description
Client-Request-Id	Yes	String	Unique request ID. It is specified by a user and is used to locate a request. UUID is recommended. The value contains 36 to 128 characters.

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. This API uses token authentication. You can obtain the token by calling the API of <a href="#">Obtaining a User Token Through Password Authentication</a> . The value of <b>X-Auth-Token</b> is that of <b>X-Subject-Token</b> in the response message header of the API of <a href="#">Obtaining a User Token Through Password Authentication</a> .

Table 3-2 Body parameters

Parameter	Mandatory	Type	Description
instance_name	Yes	String	Instance name. The value can contain letters, digits, underscores (_), and hyphens (-). The name is case-sensitive and must start with a letter. The value contains 1 to 128 characters.
description	No	String	Instance description. The value contains 0 to 1,024 characters.
plan_spec	Yes	String	Specification code. Different images support different specification codes. For details, see <a href="#">Appendix</a> .
image_ref	No	ImageRef	Image information. For details, see <a href="#">Table 3-3</a> .
region	Yes	String	Region. Currently, the following regions are supported: ap-southeast-1 (CN-Hong Kong), ap-southeast-3 (AP-Singapore), ap-southeast-2 (AP-Bangkok), tr-west-1 (TR-Istanbul), sa-brazil-1 (LA-Sao Paulo1), and me-east-1 (ME-Riyadh).
charging_mode	No	String	Billing mode. The default value is <b>prePaid</b> , which indicates the yearly/monthly billing mode.



Parameter	Mandatory	Type	Description
period_type	Yes	String	Subscription period. <ul style="list-style-type: none"><li>• <b>month</b>: indicates that the subscription period is month.</li><li>• <b>year</b>: indicates that the subscription period is year.</li></ul>
period_num	Yes	String	Subscribed periods. <ul style="list-style-type: none"><li>• If <b>periodType</b> is <b>month</b>, the value ranges from 1 to 9.</li><li>• If <b>periodType</b> is <b>year</b>, the value ranges from 1 to 3.</li></ul>
purchase_quantity	No	int	Purchase quantity. The default value is <b>1</b> . The value ranges from 1 to 200.
is_auto_renew	No	boolean	Whether auto-renew is enabled. The default value is <b>false</b> . <ul style="list-style-type: none"><li>• <b>true</b>: indicates that auto-renew is enabled.</li><li>• <b>false</b>: indicates that auto-renew is disabled.</li></ul>
is_auto_pay	No	boolean	Whether the payment will be automatically deducted from your account balance when an order is submitted. The default value is <b>false</b> . <ul style="list-style-type: none"><li>• <b>true</b>: The order will be automatically paid.</li><li>• <b>false</b>: You must manually pay the order.</li></ul>
ExtraResources	No	Array of ExtraResources	Additional resource information. For details, see <a href="#">Table 3-4</a> .
tags	No	Array of Tags	Custom tags. For details, see <a href="#">Table 3-5</a> .

**Table 3-3** ImageRef parameters

Parameter	Mandatory	Type	Description
image_name	No	String	Names of the application images or OS images supported by FlexusL. This parameter is required when a FlexusL instance is created using application images or OS images. This parameter is not required when a FlexusL instance is created using a private image. For details about the supported image names, see <a href="#">Application Images</a> or <a href="#">OS Images</a> .
image_version	No	String	Versions of the application images or OS images supported by a FlexusL instance. This parameter is required when a FlexusL instance is created using application images or OS images. This parameter is not required when a FlexusL instance is created using a private image. For details about the supported image versions, see <a href="#">Application Images</a> or <a href="#">OS Images</a> .
image_id	No	String	Private image ID. The image ID of the private image is provided by a user only when a private image is used to create a FlexusL instance. This parameter is not required if an OS image or application image is used to create a FlexusL instance.

**Table 3-4** ExtraResources parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Additional resource type. Currently, <b>evs</b> , <b>cbr</b> , and <b>hss</b> are supported. <ul style="list-style-type: none"><li>• <b>evs</b> indicates data disks.</li><li>• <b>cbr</b> indicates cloud backups.</li><li>• <b>hss</b> indicates host security.</li></ul>

Parameter	Mandatory	Type	Description
size	No	Int	Capacity of the additional EVS or CBR resources. The unit is GiB. The value ranges from 10 to 2048.  This parameter is not involved for the <b>hss</b> resource type.

Table 3-5 Tags parameters

Parameter	Mandatory	Type	Description
key	Yes	String	Key. The value contains 1 to 32 characters.
value	Yes	String	Tag value. The value contains 0 to 2,048 characters.

## Response Message

Table 3-6 Tags parameters

Parameter	Type	Description
order_id	String	Order number.
instance_ids	Array of strings	Instance IDs.

### NOTE

Use the **order\_id** returned by this API to call the API of [Querying Order Details](#). Check the creation status of the FlexusL instances based on the value of **status** in the response message. If the value of **status** is **5**, the FlexusL instances are created.

## Example Request

Create an order of two instances named **test-0620-01**. The instances use the specification code **hf.large.1.30m.linux** and image version BT 6.8.35 and are created in the AP-Singapore region. The required duration is 1 month, and auto payment and auto-renew are enabled. The order also includes 20 GB data disks, 20 GB cloud backups, and HSS.

```
{
  "instance_name": "test-0620-01",
  "description": "test",
  "plan_spec": "hf.large.1.30m.linux",
  "image_ref": {
    "image_name": "BT",
    "image_version": "6.8.35"
  }
}
```

```
},
"region": "ap-southeast-3",
"charging_mode": "prePaid",
"period_type": "month",
"period_num": 1,
"purchase_quantity": 2,
"is_auto_renew": true,
"is_auto_pay": true
,"extra_resources": [
  {
    "type": "evs",
    "size": 20
  },
  {
    "type": "cbr",
    "size": 20
  },
  {
    "type": "hss"
  }
]
```

## Example Response

```
{
  "order_id": "CS24022811305H1EW",
  "instance_ids": [
    "65dea8d23005da564c78d9d2"
  ]
}
```

## Returned Values

**Table 3-7** Returned values

Status Code	Description
202	The request is accepted and processed asynchronously.
400	Invalid request.
401	Authentication failed.
403	The user does not have the permission to call this API.
429	There are too many requests.
500	Internal server error.

## Error Codes

**Table 3-8** Error codes

HTTP Status Code	Error Code	Description
400	HCSS.14000001	Invalid parameter.

HTTP Status Code	Error Code	Description
400	HCSS.14000002	CORS service request exception.
400	HCSS.14000003	CBC service request exception.
400	HCSS.14000004	ECS service request exception.
400	HCSS.14000005	EVS service request exception.
400	HCSS.14000006	EIP service request exception.
400	HCSS.14000007	ELB service request exception.
400	HCSS.14000008	IMS service request exception.
400	HCSS.14000009	Marketplace image request exception.
400	HCSS.14000010	Insufficient specifications.
400	HCSS.14000011	Insufficient quota.
429	HCSS.14290001	Too many requests. Try again later.
500	HCSS.15000001	Server exception.

## Appendix

The following describes the specification codes of images supported by this API.

### Application Images

The following table lists the specifications corresponding to the application images and their specification codes supported by the API.

**Table 3-9** Application image specification codes

Image Name	Version	Supported Specification Code
BT	6.8.35	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux

Image Name	Version	Supported Specification Code
CRM	8.0	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Ghost	5.67	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
GitLab	16.9.3	hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Joomla	5.0.3	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
KodBox	1.49	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Matomo	5.0.3	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Moodle	4.3.4	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux

Image Name	Version	Supported Specification Code
Nextcloud	28.0.3	hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Nodejs	21	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Odoo	17.0	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Portainer	2.19.4	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
PrestaShop	8.1.5	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Redmine	5.1	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
SRS	6.0.101	hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Superset	3.1.1	hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux

Image Name	Version	Supported Specification Code
WordPress	6.4	hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux

## OS Images

The following table lists the specification versions corresponding to the system images and their specification codes supported by the API.

**Table 3-10** OS image specification codes

Image Name	Version	Supported Specification Code
Ubuntu	22.04/20.04/18.04/16.04	hf.large.05.30m.linux hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Huawei Cloud EulerOS	2.0	hf.large.025.30m.linux (supported only in the CN-Hong Kong and AP-Singapore regions) hf.large.05.30m.linux hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux



Image Name	Version	Supported Specification Code
CentOS	8.2/8.1/8.0/7.9/7.8/7.7/7.6/ 7.5/ 7.4/7.3/7.2  <b>NOTE</b> The TR-Istanbul and ME-Riyadh regions do not support 8.2, 8.1, 8.0, 7.3, or 7.2.	hf.large.025.30m.linux (supported only by images of version 7.6 in the CN-Hong Kong and AP-Singapore regions) hf.large.05.30m.linux hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux
Debian	11.1/9.0	hf.large.025.30m.linux (supported only by images of version 11.1 in the CN-Hong Kong and AP-Singapore regions) hf.large.05.30m.linux hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux

## Private Images

The following table lists the specifications corresponding to the private images and their specification codes supported by the API.

**Table 3-11** Private image specification codes

OS	Specifications Code
Linux	hf.large.025.30m.linux hf.large.05.30m.linux hf.large.1.30m.linux hf.large.2.30m.linux hf.large.4.30m.linux hf.xlarge.2.30m.linux hf.xlarge.4.30m.linux

OS	Specifications Code
Windows	hf.large.1.30m.byol hf.large.2.30m.byol hf.large.4.30m.byol hf.xlarge.2.30m.byol hf.xlarge.4.30m.byol

The following table lists the specifications corresponding to the specification codes.

**Table 3-12** Specifications corresponding to the Linux system specification codes

Specifications Code	vCPUs	Memory (GiB)	System Disk (GiB)	Peak Bandwidth (Mbit/s)	Data Package (GB)
hf.large.025.30m.linux	2	0.5	20	30	1024
hf.large.05.30m.linux	2	1	40	30	2048
hf.large.1.30m.linux	2	2	60	30	3072
hf.large.2.30m.linux	2	4	80	30	4096
hf.large.4.30m.linux	2	8	160	30	5120
hf.xlarge.2.30m.linux	4	8	240	30	6144
hf.xlarge.4.30m.linux	4	16	320	30	7168

**Table 3-13** Specifications of the Windows system specification codes

Specifications Code	vCPU s	Memory (GiB)	System Disk (GiB)	Peak Bandwidth (Mbit/s)	Data Package (GB)
hf.large.1.30m.byol	2	2	60	30	3072
hf.large.2.30m.byol	2	4	80	30	4096
hf.large.4.30m.byol	2	8	160	30	5120

Specifications Code	vCPUs	Memory (GiB)	System Disk (GiB)	Peak Bandwidth (Mbit/s)	Data Package (GB)
hf.xlarge.2.30m.byol	4	8	240	30	6144
hf.xlarge.4.30m.byol	4	16	320	30	7168

## 3.2 Querying Created FlexusL Instances

### Function

This API is used to query information about created FlexusL instances, including the instance name, instance ID, and EIP. It is the Config API for querying all resources under an account. This section lists the key information about API usage. For more information about the API, see [Querying All Resources Under an Account](#).

### Constraints

You must have the `rms:resources:list` permissions.

### URI

GET `/v1/resource-manager/domains/{domain_id}/all-resources`

When querying created FlexusL instances, you only need to pay attention to the **Query** parameters described in the following table.

**Table 3-14** Query parameters

Parameter	Mandatory	Description
region_id	No	Region ID. It specifies whether to query created FlexusL instances by region. <ul style="list-style-type: none"><li>If this parameter is specified, the created FlexusL instances are queried by region.</li><li>If this parameter is not specified, FlexusL instances created in all regions are queried.</li></ul>
type	Yes	Resource type list. To query FlexusL instances, set this parameter to <b>hcss.l-instance</b> .
limit	No	<b>limit</b> and <b>marker</b> are both specified for pagination query.
marker		

### Response

The following describes common response parameters of FlexusL instances.

**Table 3-15** Common response parameters

Parameter	Type	Description
id	String	ID of a FlexusL instance.
name	String	Name of a FlexusL instance.
region_id	String	Region where a FlexusL instance resides.
properties	Map<String, Object>	Resource property details. For details about the data structure, see <a href="#">Table 3-16</a> .

**Table 3-16** Data structure of **properties**

Field	Type	Description
metadata	Map<String, String>	FlexusL instance metadata. For details about the data structure, see <a href="#">Table 3-17</a> .
resources	Array of objects	Resources packaged in a FlexusL instance. For details about the data structure, see <a href="#">Table 3-18</a> .

**Table 3-17** Data structure of **metadata**

Field	Type	Description
charging_mode	String	Billing mode. Yearly/Monthly is a prepaid mode.
order_id	String	Order ID.
resource_spec_code	String	Specification code. For details about specifications, see <a href="#">Table 3-12</a> .

**Table 3-18** Data structure of **resources**

Field	Type	Description
logical_resource_type	String	Type of resources packaged in a FlexusL instance.

Field	Type	Description
physical_resource_id	String	<ul style="list-style-type: none"><li>This field indicates a cloud server ID when <b>logical_resource_type</b> is set to <b>huaweicloudinternal_ecs_instance</b>.</li><li>This field indicates a data package ID when <b>logical_resource_type</b> is set to <b>huaweicloudinternal_cbc_freeresource</b>.</li></ul>
physical_resource_name	String	This field indicates a cloud server name when <b>logical_resource_type</b> is set to <b>huaweicloudinternal_ecs_instance</b> .

## Example Request

Query information about all FlexusL instances of the current user.

```
GET https://{endpoint}/v1/resource-manager/domains/{domain_id}/all-resources?type=hcsl-instance
```

## Example Response

```
"resources": [  
  {  
    "id": "66e3e9f8b271f8319ef19e86", //FlexusL instance ID  
    "name": "BT-cn-north-4-X6p4", //FlexusL instance name  
    "provider": "hcsl",  
    "type": "l-instance",  
    "region_id": "cn-north-4", //Region of the FlexusL instance  
    "project_id": "067cf8aecf3845d1ad7a5d308322f13b",  
    "project_name": "cn-north-4",  
    "ep_id": "0",  
    "ep_name": "default",  
    "checksum": "a9c783ed32927aff443932a9cf43cb8e3dd8a5bf1ddd4ae0495aa182c4e02938",  
    "created": "2024-09-13T07:30:00.000Z",  
    "updated": "2024-09-13T07:31:11.000Z",  
    "provisioning_state": "Succeeded",  
    "state": "Normal",  
    "tags": {},  
    "properties": {  
      "metadata": {  
        "charging_mode": "prePaid",  
        "resource_type": "hws.resource.type.hecsfusion",  
        "resource_spec_code": "ahf.large.1.40g.2m.linux", //Specification code  
        "order_id": "CS2409131529QL4NJ", //Order ID  
        "cloud_service_type": "hws.service.type.hcsl"  
      },  
      "description": "",  
      "resources": [  
        {  
          "physical_resource_type": "hws.resource.type.marketplace",  
          "logical_resource_type": "hws.resource.type.marketplace",  
          "physical_resource_id": "66e3e9f8b271f8319ef19e86_f267d4ce-0d85-41ce-99c3-f5c4b3ca4640_0",  
          "logical_resource_name": "huaweicloudinternal_ecs_instance_image",  
          "cloud_service_type": "hws.service.type.marketplace"  
        },  
        {  
          "physical_resource_type": "hws.resource.type.vm",  
          "logical_resource_type": "huaweicloudinternal_ecs_instance",  
          "physical_resource_id": "72a270de-665a-4f46-8d64-24ad6edccdd2", //Cloud server ID
```

```
"physical_resource_name": "hcss_ecs_ff60", //Cloud server name
"resource_attributes": [
  {
    "value": "null",
    "key": "admin_pass"
  },
  {
    "value": "cn-north-4g",
    "key": "availability_zone"
  },
  {
    "value": "null",
    "key": "batch_create_in_multi_az"
  },
  {
    "value": "[]",
    "key": "data_volumes"
  },
  {
    "value": "null",
    "key": "description"
  },
  {
    "value": "{\"chargingMode\":\"prePaid\",\"imageproductid\":\"OFFI890411017782276096\",\"orderID\": \"CS2409131529QL4NJ\",\"productID\":\"OFFI1017640863722074117\"}",
    "key": "extendparam"
  },
  {
    "value": "at7.large.1",
    "key": "flavor_id"
  },
  {
    "value": "null",
    "key": "frozen"
  },
  {
    "value": "72a270de-665a-4f46-8d64-24ad6edccdd2",
    "key": "id"
  },
  {
    "value": "f267d4ce-0d85-41ce-99c3-f5c4b3ca4640",
    "key": "image_id"
  },
  {
    "value": "null",
    "key": "is_auto_rename"
  },
  {
    "value": "null",
    "key": "key_name"
  },
  {
    "value": "{\"__support_agent_list\":{\"hss,hss-pc,ces\"}",
    "key": "metadata"
  },
  {
    "value": "hcss_ecs_ff60",
    "key": "name"
  },
  {
    "value": "[{\"ip_address\":\"\",\"ipv6_bandwidth\": [],\"ipv6_enable\":false,\"subnet_id\": \"d99a81d0-4262-4a0b-8258-8ac2357d7bcf\"}]",
    "key": "nics"
  },
  {
    "value": "null",
    "key": "os_scheduler_hints"
  },
  {
```

```
"value": "db18e1cd-7fea-4e8d-95b0-e31db879b8ee",
"key": "primary_port_id"
},
{
"value": "[]",
"key": "publicip"
},
{
"value": "[{\\"cluster_id\\":\\"\\",\\"cluster_type\\":\\"\\",\\"extendparam\\":{\\"orderID\\":\\"CS2409131529QL4NJ
\\",\\"hw_passthrough\\":false,\\"iops\\":0,\\"metadata\\":{\},\\"size\\":40,\\"throughput\\":0,\\"volumetype
\\":\\"SAS_for_smb\\"}]",
"key": "root_volume"
},
{
"value": "[{\\"id\\":\\"b88fdd7e-fe03-4e3f-ab64-1e5e1f8de0d9\\"}]",
"key": "security_groups"
},
{
"value": "[]",
"key": "server_tags"
},
{
"value": "0",
"key": "status"
},
{
"value": "2cda750e-d6d8-4153-b4cc-e15fb22e6ea8",
"key": "system_disk_id"
},
{
"value": "[\\"_sys_type_hcss-l\\"]",
"key": "tags"
},
{
"value": "null",
"key": "timeouts"
},
{
"value": "null",
"key": "total_count"
},
{
"value": "null",
"key": "user_data"
},
{
"value": "4022721e-0476-41ea-91f4-1883065a68cc",
"key": "vpc_id"
},
{
"value": "2024-09-13T07:31:11Z",
"key": "cors_crm_updated_at"
}
],
"logical_resource_name": "huaweicloudinternal_ecs_instance_light_server_compute_instance",
"cloud_service_type": "hws.service.type.ec2"
},
{
"physical_resource_type": "hws.resource.type.volume",
"logical_resource_type": "hws.resource.type.volume",
"physical_resource_id": "2cda750e-d6d8-4153-b4cc-e15fb22e6ea8",
"logical_resource_name": "huaweicloudinternal_ecs_instance_system_disk",
"cloud_service_type": "hws.service.type.ebs"
},
{
"physical_resource_type": "hws.resource.type.bandwidth",
"logical_resource_type": "huaweicloudinternal_cbc_freeresource",
"physical_resource_id": "4fb5cd67-73f8-4313-bc1b-f76ed15c9d09", //Data package ID
"resource_attributes": [
```

```
{
  "value": "null",
  "key": "bundle_product_id"
},
{
  "value": "3c24f6f8852945a0af194f93ce075fbd",
  "key": "customer_id"
},
{
  "value": "2024-10-13 16:00:00",
  "key": "end_time"
},
{
  "value": "null",
  "key": "enterprise_project_id"
},
{
  "value": "4fb5cd67-73f8-4313-bc1b-f76ed15c9d09",
  "key": "id"
},
{
  "value": "CS2409131529QL4NJ",
  "key": "order_id"
},
{
  "value": "32bd0fdf-772b-41a8-8495-afbc5a46e00f",
  "key": "oriented_resource_id"
},
{
  "value": "OFF1879567668502900737",
  "key": "product_id"
},
{
  "value": "cn-north-4",
  "key": "region_code"
},
{
  "value": "2024-09-13T07:31:11Z",
  "key": "cors_crm_updated_at"
}
],
"logical_resource_name": "huaweicloudinternal_cbc_freeresource_cbc_freeresource",
"cloud_service_type": "hws.service.type.vpc"
},
{
  "physical_resource_type": "hws.resource.type.ip",
  "logical_resource_type": "huaweicloudinternal_eip",
  "physical_resource_id": "ad75ed90-2cd5-4f96-a65c-c4cb0b3690c0",
  "resource_attributes": [
    {
      "value": "hcss_eip_ff60",
      "key": "alias"
    },
    {
      "value": "null",
      "key": "associate_instance_id"
    },
    {
      "value": "null",
      "key": "associate_instance_type"
    },
    {
      "value": "[{\\"billing_info\\":{\\"charge_mode\\":\\"traffic\\",\\"id\\":\\"32bd0fdf-772b-41a8-8495-afbc5a46e00f\\",\\"name\\":\\"hcss_bandwidth_ff60\\",\\"share_type\\":\\"PER\\",\\"size\\":2,\\"status\\":0}],\\"name\\":\\"hcss_bandwidth_ff60\\",\\"share_type\\":\\"PER\\",\\"size\\":2,\\"status\\":0}]",
      "key": "bandwidth"
    },
    {
      "value": "null",
      "key": "billing_info"
    }
  ]
}
```



```
},
{
  "value": "null",
  "key": "cascade_delete_by_instance"
},
{
  "value": "null",
  "key": "description"
},
{
  "value": "null",
  "key": "eip_id"
},
{
  "value": "null",
  "key": "enterprise_project_id"
},
{
  "value": "ad75ed90-2cd5-4f96-a65c-c4cb0b3690c0",
  "key": "id"
},
{
  "value": "4",
  "key": "ip_version"
},
{
  "value": "119.3.166.187", //EIP
  "key": "public_ip_address"
},
{
  "value": "",
  "key": "public_ipv6_address"
},
{
  "value": "5_bgp",
  "key": "publicip_pool_name"
},
{
  "value": "0",
  "key": "status"
},
{
  "value": "null",
  "key": "type"
},
{
  "value": "2024-09-13T07:31:11Z",
  "key": "cors_crm_updated_at"
}
],
"logical_resource_name": "huaweicloudinternal_eip_light_server_eip",
"cloud_service_type": "hws.service.type.vpc"
},
{
  "physical_resource_type": "",
  "logical_resource_type": "huaweicloudinternal_eip_attach",
  "physical_resource_id": "ad75ed90-2cd5-4f96-a65c-c4cb0b3690c0",
  "resource_attributes": [
    {
      "value": "db18e1cd-7fea-4e8d-95b0-e31db879b8ee",
      "key": "associate_instance_id"
    },
    {
      "value": "PORT",
      "key": "associate_instance_type"
    }
  ],
  "value": "null",
  "key": "cascade_delete_by_instance"
}
```

```
},
{
  "value": "ad75ed90-2cd5-4f96-a65c-c4cb0b3690c0",
  "key": "eip_id"
},
{
  "value": "ad75ed90-2cd5-4f96-a65c-c4cb0b3690c0",
  "key": "id"
},
{
  "value": "2024-09-13T07:31:11Z",
  "key": "cors_crm_updated_at"
}
],
"logical_resource_name": "huaweicloudinternal_eip_attach_light_server_eip_attach_ecs",
"cloud_service_type": ""
},
{
  "physical_resource_type": "",
  "logical_resource_type": "huaweicloudinternal_eip_bandwidth_lock",
  "physical_resource_id": "32bd0fdf-772b-41a8-8495-afbc5a46e00f",
  "resource_attributes": [
    {
      "value": "resize,change_charge_mode,delete",
      "key": "action"
    },
    {
      "value": "32bd0fdf-772b-41a8-8495-afbc5a46e00f",
      "key": "bandwidth_id"
    },
    {
      "value": "32bd0fdf-772b-41a8-8495-afbc5a46e00f",
      "key": "id"
    },
    {
      "value": "hcss",
      "key": "scene"
    },
    {
      "value": "72a270de-665a-4f46-8d64-24ad6edccdd2",
      "key": "source_id"
    },
    {
      "value": "hcss",
      "key": "source_type"
    },
    {
      "value": "2024-09-13T07:31:11Z",
      "key": "cors_crm_updated_at"
    }
  ],
  "logical_resource_name": "huaweicloudinternal_eip_bandwidth_lock_light_server_bandwidth_lock_ecs",
  "cloud_service_type": ""
},
{
  "physical_resource_type": "",
  "logical_resource_type": "huaweicloudinternal_eip_lock",
  "physical_resource_id": "ad75ed90-2cd5-4f96-a65c-c4cb0b3690c0",
  "resource_attributes": [
    {
      "value": "associate_instance,disassociate_instance,change_bandwidth,delete,change_charge_mode",
      "key": "action"
    },
    {
      "value": "ad75ed90-2cd5-4f96-a65c-c4cb0b3690c0",
      "key": "eip_id"
    },
    {
      "value": "ad75ed90-2cd5-4f96-a65c-c4cb0b3690c0",
```

```
{
  "key": "id"
},
{
  "value": "hcss",
  "key": "scene"
},
{
  "value": "72a270de-665a-4f46-8d64-24ad6edccdd2",
  "key": "source_id"
},
{
  "value": "hcss",
  "key": "source_type"
},
{
  "value": "2024-09-13T07:31:11Z",
  "key": "cors_crm_updated_at"
}
],
"logical_resource_name": "huaweicloudinternal_eip_lock_light_server_eip_lock_ecs",
"cloud_service_type": ""
}
],
"product_name": "BT_light_server_8_0",
"platform": "SMB",
"plan_name": "basic_v12",
"product_id": "64c12fefcd938770a92ea433",
"plan_id": "66b03ab8bb1fd66087123683",
"status": "RUNNING"
}
}
],
"page_info": {
  "current_count": 1,
  "next_marker": null
}
}
```

## 3.3 Resetting Cloud Server Passwords in a Batch

### Function

This API is used to reset the password of the cloud server management accounts (**root** or **Administrator**) in a batch. It is the API for resetting the passwords of ECS management accounts in a batch. This section lists the key information about using the API. For more information about the API, see [Resetting the Passwords for Logging In to ECSs in a Batch](#).

#### NOTE

This API used by **cloud servers** in the FlexusL instances is the same as that used by **ECSs**. The response parameter description, API usage example, and return values of ECSs also apply to the FlexusL instances.

### Constraints

- Before using this API, you must install the password reset plug-in.  
By default, the password reset plug-in has been installed in the OS images and application images provided by the FlexusL instances.  
If the private image is created from a server on another cloud platform or downloaded from a third party, the image may not have the password reset

plug-in installed, so the password reset function is unavailable. Install the plug-in by following the instructions provided in [What Should I Do If the Password Cannot Be Reset After I Use a Private Linux Image to Create a FlexusL Instance or Change the OS of an Existing Instance and I Forgot the Initial Password of the Private Image?](#)

- After the request for resetting the password is issued, this API does not report an error if the script failed to be executed.
- A new password takes effect after the cloud server is started or restarted.
- This API allows you to reset passwords when the target cloud servers are running or stopped.

## URI

PUT /v1/{project\_id}/cloudservers/os-reset-passwords

## Request Message

For details about the request parameters, see [Starting ECSs in a Batch](#). In the request message, **id** in the **servers** field is the cloud server ID. Obtain the cloud server ID by referring to [Querying Created FlexusL Instances](#).

## Example Request

Reset the passwords of the FlexusL instances whose cloud server IDs are **72a270de-665a-4f46-8d64-24ad6edccdd1** or **72a270de-665a-4f46-8d64-24ad6edccdd2** to **password@123**.

```
PUT https://{endpoint}/v1/{project_id}/cloudservers/os-reset-passwords
{
  "new_password": "password@123",
  "servers": [
    {
      "id": "72a270de-665a-4f46-8d64-24ad6edccdd1"
    },
    {
      "id": "72a270de-665a-4f46-8d64-24ad6edccdd2"
    }
  ]
}
```

## Example Response

```
{
  "response": [
    {
      "id": "72a270de-665a-4f46-8d64-24ad6edccdd1"
    },
    {
      "id": "72a270de-665a-4f46-8d64-24ad6edccdd2"
    }
  ]
}
```

## 3.4 General O&M APIs

## 3.4.1 Querying Details About a FlexusL Cloud Server

### Function

This API is used to query details about a cloud server based on the cloud server ID, including the cloud server status, cloud server name, and EIP. It is the API for querying ECS details. The information that can be queried includes the cloud server billing mode and whether the cloud server is frozen. This section lists the key information about using the API. For more information about the API, see [Querying Details About an ECS](#).

#### NOTE

This API used by **cloud servers** in the FlexusL instances is the same as that used by **ECSs**. The response parameter description, API usage example, and return values of ECSs also apply to the FlexusL instances.

### URI

GET /v1/{project\_id}/cloudservers/{server\_id}

In the parameter description, **server\_id** indicates the cloud server ID. Obtain the cloud server ID by referring to [Querying Created FlexusL Instances](#).

### Example Request

Query details about the cloud server whose ID is **72a270de-665a-4f46-8d64-24ad6edccdd2**.

```
GET https://{endpoint}/v1/{project_id}/cloudservers/72a270de-665a-4f46-8d64-24ad6edccdd2
```

### Example Response

```
{
  "server": {
    "fault": null,
    "id": "72a270de-665a-4f46-8d64-24ad6edccdd2",
    "name": "hcss_ecs_ff60", //Cloud server name
    "addresses": { //Cloud server network information
      "4022721e-0476-41ea-91f4-1883065a68cc": [
        {
          "version": "4",
          "addr": "192.168.12.151",
          "primary": true,
          "OS-EXT-IPS-MAC:mac_addr": "fa:16:3e:74:d8:63",
          "OS-EXT-IPS:type": "fixed",
          "OS-EXT-IPS:port_id": "db18e1cd-7fea-4e8d-95b0-e31db879b8ee"
        },
        {
          "version": "4",
          "addr": "119.3.166.187",
          "primary": true,
          "OS-EXT-IPS-MAC:mac_addr": "fa:16:3e:74:d8:63",
          "OS-EXT-IPS:type": "floating",
          "OS-EXT-IPS:port_id": "db18e1cd-7fea-4e8d-95b0-e31db879b8ee"
        }
      ]
    },
    "flavor": {
      "disk": "0",
      "vcpus": "2",

```

```
"ram": "2048",
"id": "at7.large.1",
"name": "at7.large.1",
"gpus": [],
"asic_accelerators": []
},
"accessIPv4": "",
"accessIPv6": "",
"status": "ACTIVE",
"progress": 0,
"hostId": "fc724a7f21982eec27a7c4d3ab33275733834e1d4316cadd2a684387",
"updated": "2024-09-13T07:31:12Z",
"created": "2024-09-13T07:30:25Z",
"metadata": {
  "lockScene":
"OTHER_SVC_LOCK=changeos,resize,delete,attachvolume,detachvolume,detachnics,attachnics,renewfee",
  "charging_mode": "1",
  "vpc_id": "4022721e-0476-41ea-91f4-1883065a68cc",
  "metering.productcode": "0a1438ad-a2d3-4b89-bed7-f3d261a853a8",
  "metering.product_id": "OFF11017640863722074117",
  "lockSource": "hcss",
  "lockSourceId": "66e3e9f8b271f8319ef19e86",
  "__support_agent_list": "hss,hss-pc,ces",
  "metering.imagetype": "market",
  "metering.order_id": "CS2409131529QL4NJ",
  "image_name": "Linux BT panel 8.0.5",
  "metering.imageproductid": "OFF1890411017782276096",
  "metering.resourcespeccode": "at7.large.1.linux",
  "os_type": "Linux",
  "metering.resourcetype": "1",
  "metering.image_id": "f267d4ce-0d85-41ce-99c3-f5c4b3ca4640",
  "os_bit": "64",
  "lockCheckEndpoint": "",
  "cascaded.instance_extrainfo": "pcibridge:1,virtio_bus_count:8"
},
"tags": [
  "_sys_type_hcss_l"
],
"description": "",
"locked": false,
"config_drive": "",
"tenant_id": "067cf8aecf3845d1ad7a5d308322f13b",
"user_id": "862856742c334c8a801460a39f1f1cfb",
"key_name": null,
"os-extended-volumes:volumes_attached": [
  {
    "id": "2cda750e-d6d8-4153-b4cc-e15fb22e6ea8",
    "delete_on_termination": "false",
    "device": "/dev/vda",
    "bootIndex": "0"
  }
],
"OS-EXT-STS:task_state": null,
"OS-EXT-STS:power_state": 1,
"OS-EXT-STS:vm_state": "active",
"OS-EXT-SRV-ATTR:host": "fc724a7f21982eec27a7c4d3ab33275733834e1d4316cadd2a684387",
"OS-EXT-SRV-ATTR:instance_name": "instance-038ca5e0",
"OS-EXT-SRV-ATTR:hypervisor_hostname":
"fc724a7f21982eec27a7c4d3ab33275733834e1d4316cadd2a684387",
"OS-DCF:diskConfig": "MANUAL",
"OS-EXT-AZ:availability_zone": "cn-north-4g",
"os:scheduler_hints": {},
"OS-EXT-SRV-ATTR:root_device_name": "/dev/vda",
"OS-EXT-SRV-ATTR:ramdisk_id": "",
"enterprise_project_id": "0",
"OS-EXT-SRV-ATTR:user_data": null,
"OS-SRV-USG:launched_at": "2024-09-13T07:30:39.000000",
"OS-EXT-SRV-ATTR:kernel_id": "",
"OS-EXT-SRV-ATTR:launch_index": 0,
```

```
"host_status": "UP",
"OS-EXT-SRV-ATTR:reservation_id": "r-hzt0k5xi",
"OS-EXT-SRV-ATTR:hostname": "hcss-ecs-ff60",
"OS-SRV-USG:terminated_at": null,
"sys_tags": [
  {
    "key": "_sys_enterprise_project_id",
    "value": "0"
  }
],
"security_groups": [
  {
    "id": "b88fdd7e-fe03-4e3f-ab64-1e5e1f8de0d9",
    "name": "sg-default-smb"
  }
],
"image": {
  "id": "f267d4ce-0d85-41ce-99c3-f5c4b3ca4640"
},
"hypervisor": null,
"auto_terminate_time": "",
"cpu_options": {
  "hw:cpu_threads": null
},
"enclave_options": {
  "enabled": false
},
"capacity_reservation_id": null,
"capacity_reservation_specification": {
  "id": null,
  "preference": null
},
"security_options": {
  "secure_boot_enabled": null,
  "tpm_enabled": null
},
"spod_id": null
}
```

## 3.4.2 Modifying the Cloud Server Information of a FlexusL Instance

### Function

This API is used to modify cloud server information. Currently, the name, description, and host name of a cloud server can be modified. The API is the ECS API for modifying an ECS. This section lists the key information about using the API. For more information about the API, see [Modifying ECS Details](#).

#### NOTE

This API used by **cloud servers** in the FlexusL instances is the same as that used by **ECSs**. The response parameter description, API usage example, and return values of ECSs also apply to the FlexusL instances.

### Constraints

After the hostname of a cloud server is changed, you need to restart the cloud server to apply the change.

## URI

PUT /v1/{project\_id}/cloudservers/{server\_id}

In the parameter description, **server\_id** indicates the cloud server ID. Obtain the cloud server ID by referring to [Querying Created FlexusL Instances](#).

## Example Request

Change hostname of the cloud server whose ID is **72a270de-665a-4f46-8d64-24ad6edccdd2** to **NameA**.

```
PUT /v1/{project_id}/cloudservers/{72a270de-665a-4f46-8d64-24ad6edccdd2}
{
  "server": {
    "hostname": "NameA"
  }
}
```

## Example Response

```
{
  "server": {
    "tenant_id": "067cf8aecf3845d1ad7a5d308322f13b",
    "image": "",
    "accessIPv4": null,
    "metadata": {
      "__support_agent_list": "hss,hss-pc,ces"
    },
    "addresses": {
      "4022721e-0476-41ea-91f4-1883065a68cc": [
        {
          "addr": "192.168.12.151",
          "version": 4
        }
      ]
    },
    "security_options": {
      "secure_boot_enabled": null,
      "tpm_enabled": null
    },
    "accessIPv6": null,
    "created": "2024-09-13T07:30:25Z",
    "OS-EXT-SRV-ATTR:user_data": null,
    "hostId": "fc724a7f21982eec27a7c4d3ab33275733834e1d4316cadd2a684387",
    "description": "",
    "OS-EXT-SRV-ATTR:hostname": "NameA",
    "flavor": {
      "links": [
        {
          "rel": "bookmark",
          "href": "https://ecs.cn-north-4.myhuaweicloud.com/flavors/at7.large.1"
        }
      ]
    },
    "id": "at7.large.1"
  },
  "OS-DCF:diskConfig": "MANUAL",
  "user_id": "862856742c334c8a801460a39f1f1cfb",
  "name": "hcss_ecs_ff60",
  "progress": 0,
  "links": [
    {
      "rel": "self",
      "href": "https://ecs.cn-north-4.myhuaweicloud.com/v1.0/servers/72a270de-665a-4f46-8d64-24ad6edccdd2"
    }
  ]
}
```



```
"rel": "bookmark",
"href": "https://ecs.cn-north-4.myhuaweicloud.com/servers/72a270de-665a-4f46-8d64-24ad6edccdd2"
},
{id": "72a270de-665a-4f46-8d64-24ad6edccdd2",
"updated": "2024-09-14T06:20:34Z",
"status": "ACTIVE"
}
}
```

### 3.4.3 Starting Cloud Servers in a Batch

#### Function

This API is used to start cloud servers in a batch based on the specified cloud server IDs. A maximum of 1,000 cloud servers can be started within 1 minute. The API is the ECS API for starting ECSs in a batch. This section lists the key information about using the API. For more information about the API, see [Starting ECSs in a Batch](#).

This API is an asynchronous API. After the batch start request is successfully delivered, a job ID is returned. This does not mean the batch start is complete. You need to call the API by referring to [Querying Task Execution Status](#) to query the job status. The **SUCCESS** status indicates that the batch start is successful.

#### NOTE

This API used by **cloud servers** in the FlexusL instances is the same as that used by **ECSs**. The response parameter description, API usage example, and return values of ECSs also apply to the FlexusL instances.

#### URI

POST /v1/{project\_id}/cloudservers/action

#### Request Message

For details about the request parameters, see [Starting ECSs in a Batch](#). In the request message, **id** in the **servers** field is the cloud server ID. Obtain the cloud server ID by referring to [Querying Created FlexusL Instances](#).

#### Example Request

Start FlexusL instances whose cloud server IDs are **72a270de-665a-4f46-8d64-24ad6edccdd1** and **72a270de-665a-4f46-8d64-24ad6edccdd2** in a batch.

```
POST https://{endpoint}/v1/{project_id}/cloudservers/action
{
  "os-start": {
    "servers": [
      {
        "id": "72a270de-665a-4f46-8d64-24ad6edccdd1"
      },
      {
        "id": "72a270de-665a-4f46-8d64-24ad6edccdd2"
      }
    ]
  }
}
```

## Example Response

```
{
  "job_id": "ff80808290c6b7b60191ef4d78411d8d"
}
```

## 3.4.4 Restarting Cloud Servers in a Batch

### Function

This API is used to restart cloud servers in a batch based on the specified cloud server IDs. A maximum of 1,000 cloud servers can be restarted within 1 minute. The API is the ECS API for restarting ECSs in a batch. This section lists the key information about using the API. For more information about the API, see [Restarting ECSs in a Batch](#).

This API is an asynchronous API. After the batch restart request is successfully delivered, a job ID is returned. This does not mean the batch restart is complete. You need to call the API by referring to [Querying Task Execution Status](#) to query the job status. The **SUCCESS** status indicates that the batch restart is successful.

#### NOTE

This API used by **cloud servers** in the FlexusL instances is the same as that used by **ECSs**. The response parameter description, API usage example, and return values of ECSs also apply to the FlexusL instances.

### URI

POST /v1/{project\_id}/cloudservers/action

### Request Message

For details about the request parameters, see [Restarting ECSs in a Batch](#). In the request message, **id** in the **servers** field is the cloud server ID. Obtain the cloud server ID by referring to [Querying Created FlexusL Instances](#).

### Example Request

Restart FlexusL instances whose cloud server IDs are **72a270de-665a-4f46-8d64-24ad6edccdd1** and **72a270de-665a-4f46-8d64-24ad6edccdd2** in a batch.

```
POST https://{endpoint}/v1/{project_id}/cloudservers/action
{
  "reboot": {
    "servers": [
      {
        "id": "72a270de-665a-4f46-8d64-24ad6edccdd1"
      },
      {
        "id": "72a270de-665a-4f46-8d64-24ad6edccdd2"
      }
    ],
    "type": "SOFT"
  }
}
```

## Example Response

```
{
  "job_id": "ff80808290c6b7b60191ef522de6257b"
}
```

## 3.4.5 Stopping Cloud Servers in a Batch

### Function

This API is used to stop cloud servers in a batch based on the specified cloud server IDs. A maximum of 1,000 cloud servers can be stopped within 1 minute. The API is the ECS API for stopping ECSs in a batch. This section lists the key information about using the API. For more information about the API, see [Stopping ECSs in a Batch](#).

This API is an asynchronous API. After the batch stop request is successfully delivered, a job ID is returned. This does not mean the batch stop is complete. You need to call the API by referring to [Querying Task Execution Status](#) to query the job status. The **SUCCESS** status indicates that the batch stop is successful.

#### NOTE

This API used by **cloud servers** in the FlexusL instances is the same as that used by **ECSs**. The response parameter description, API usage example, and return values of ECSs also apply to the FlexusL instances.

### URI

POST /v1/{project\_id}/cloudservers/action

### Request Message

For details about the request parameters, see [Stopping ECSs in a Batch](#). In the request message, **id** in the **servers** field is the cloud server ID. Obtain the cloud server ID by referring to [Querying Created FlexusL Instances](#).

### Example Request

Stop FlexusL instances whose cloud server IDs are **72a270de-665a-4f46-8d64-24ad6edccdd1** and **72a270de-665a-4f46-8d64-24ad6edccdd2** in a batch.

```
POST https://{endpoint}/v1/{project_id}/cloudservers/action
{
  "os-stop": {
    "servers": [
      {
        "id": "72a270de-665a-4f46-8d64-24ad6edccdd1"
      },
      {
        "id": "72a270de-665a-4f46-8d64-24ad6edccdd2"
      }
    ]
  }
}
```

## Example Response

```
{
  "job_id": "ff80808290c6b8210191ef4a80e116d3"
}
```

## 3.4.6 Querying the Remaining Traffic of the Data Package in a FlexusL Instance

### Function

This API is used to query the remaining traffic of the data package in a FlexusL instance. This section lists the key information about API usage. For more information, see [Viewing Resource Package Usage](#).

### Constraints

This API can be called only by the customer AK/SK or token.

#### NOTICE

If a data package has expired for more than 18 months, its information cannot be queried.

### Debugging

You can debug this API in [API Explorer](#)

### URI

POST /v2/payments/free-resources/usages/details/query

### Request

**Table 3-19** Request parameters

Parameter	Mandatory	Type	Value Range	Description
free_resource_ids	Yes	List<string>	A maximum of 100 records	List of data package IDs of FlexusL instances. Each ID can contain a maximum of 64 bytes. You can obtain the data package IDs by calling the API for <a href="#">querying a created FlexusL instance</a> based on the <b>logical_resource_type</b> value that is <b>huaweicloudinternal_cbc_freeresource</b> .

## Example Request

Query the remaining traffic of the data package whose ID is **828e2c7c-3c8c-45a2-bebc-98cb3e77d06e**.

```
{
  "free_resource_ids": [
    "828e2c7c-3c8c-45a2-bebc-98cb3e77d06e"
  ]
}
```

## Example Response

```
{
  "free_resources": [
    {
      "free_resource_id": "828e2c7c-3c8c-45a2-bebc-98cb3e77d06e",
      "free_resource_type_name": "Lightweight BGP data package",
      "quota_reuse_cycle": 4,
      "quota_reuse_cycle_type": 2,
      "usage_type_name": "Uplink traffic",
      "start_time": "2024-12-25T08:00:00Z",
      "end_time": "2025-01-25T16:00:00Z",
      "amount": 180, //Remaining traffic
      "original_amount": 200, //Original traffic amount
      "measure_id": 10
    }
  ]
}
```

# 3.5 Renewal and Unsubscription

## 3.5.1 Renewing a FlexusL Instance

### Function

This API is used to renew a yearly/monthly FlexusL instance when it is about to expire. This section lists the key information about API usage. For more information, see [Renewing Subscription to Yearly/Monthly Resources](#).

### Constraints

This API can be called only by the customer AK/SK or token.

### Debugging

You can debug this API in [API Explorer](#).

### URI

POST /v2/orders/subscriptions/resources/renew

### Request Message

For details about the request parameters, see [Request](#). In the request message, **resource\_ids** indicates the FlexusL instance ID, which can be obtained in [Querying Created FlexusL Instances](#).

## Example Request

Renew the FlexusL instance whose ID is **6743d0e3708be6007b8c8012** for one month.

```
{
  "resource_ids": [
    "6743d0e3708be6007b8c8012"
  ],
  "period_type": 2,
  "period_num": 1
}
```

## Example Response

```
{
  "order_ids": [
    "CS241125185460CZY"
  ],
  "fail_resource_infos": []
}
```

## Status Code

For details, see [Returned Values](#).

## 3.5.2 Unsubscribing from a FlexusL Instance

### Function

This API is used to unsubscribe from a yearly/monthly resource that you have subscribed to, including the renewed resources and the resources that are being used. After the unsubscription, the resources can no longer be used. This section lists the key information about API usage. For more information, see [Unsubscribing from Yearly/Monthly Resources](#).

#### NOTE

- A yearly/monthly resource can be unsubscribed from only after it has been successfully paid and provisioned.
- After this API is called, all resources including the EVS disks, cloud backup vault, HSS, and EIP associated with the FlexusL instance will be unsubscribed from.
- When unsubscribing from an in-use resource, confirm the resource and refund information carefully. If you want to continue using these resources, unsubscribe from the subscription term renewed but not used yet.

### Constraints

This API can be called only by the customer AK/SK or token.

### Debugging

You can debug this API in [API Explorer](#)

### URI

POST /v2/orders/subscriptions/resources/unsubscribe

## Request Message

For details about the request parameters, see [Request](#). In the request message, **resource\_ids** indicates the FlexusL instance ID, which can be obtained in [Querying Created FlexusL Instances](#).

## Example Request

Unsubscribe from the FlexusL instance whose ID is **6743d0e3708be6007b8c8012**.

```
{
  "resource_ids": [
    "6743d0e3708be6007b8c8012"
  ],
  "unsubscribe_type": 1
}
```

## Example Response

```
{
  "order_ids": [
    "CS241125191112O62"
  ],
  "fail_resource_infos": []
}
```

## Status Code

For details, see [Returned Values](#).