

**PanguBot**

# **API Reference**

**Issue**            01  
**Date**             2026-02-27



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# 1 Before You Start

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## Overview

Welcome to Pangu Bot, a cutting-edge intelligent dialogue hub designed for advanced large language model (LLM) scenarios. Pangu Bot offers essential conversational capabilities such as intent recognition, error correction, rewriting, and knowledge-enhanced Q&A. It seamlessly integrates with LLMs to deliver a fully functional, end-to-end dialogue platform that is ready to use out of the box.

This document provides detailed descriptions, syntax, parameter descriptions, and examples of Pangu Bot APIs. By using these APIs, you can effortlessly harness the power of Pangu Bot for your applications.

### NOTE

Pangu Bot is currently available only in the **CN-Hong Kong** region. Pangu Bot is available for trial use. To trial-use it, submit a [service ticket](#).

## Endpoints

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

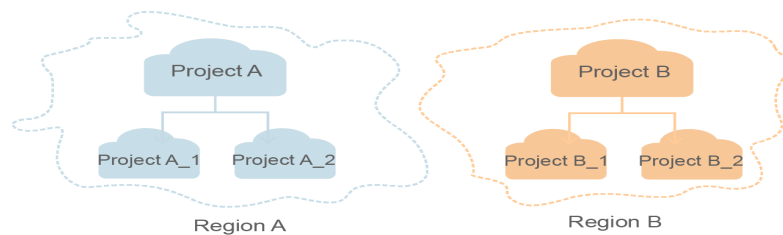
## Basic Concepts

- Account  
An account is created during user registration and has full access to its associated resources and cloud services. It can reset passwords, assign permissions, and more. The account is the payment entity. For security purposes, do not use it directly for daily management tasks. Instead, create users under the account and delegate routine operations to them.
- User  
A user is created by an account within IAM and represents a person using cloud services. Each user possesses credentials such as passwords and access keys.  
The account name, username, and password are typically required during API authentication processes.
- Region

A region is a geographic area where cloud services 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. By creating cloud resources in various regions, you can design applications to better meet the needs of specific customers or to comply with legal or other regional requirements.

- **AZ**  
An AZ consists of one or more physical data centers equipped with independent utility infrastructure. Within an AZ, compute, networking, and storage resources are logically divided into clusters. Multiple AZs within a region are interconnected via high-speed fiber optics, enabling users to build highly available systems across AZs.
- **Project**  
By default, each region corresponds to a system-predefined project that isolates resources (compute, storage, and networking) between physical regions. Permissions are granted at the project level, allowing users to access all resources within their account for that region. For finer-grained control, sub-projects can be created within the default project. Resources purchased under these sub-projects enable precise permission management, restricting user access to only those resources within the specified sub-project.

**Figure 1-1** Project isolating model



- **Checkpoint:** A checkpoint marks the latest sequence number of consumed data in an application. When resuming data consumption, this checkpoint ensures continuity from where the process left off.
- **App:** When multiple applications consume data from the same channel, an app identifier distinguishes each application's checkpoint, ensuring accurate tracking of individual progress.

# 2 API Overview

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Pangu Bot offers a set of Huawei-developed APIs designed to comply with RESTful API standards. These proprietary APIs enable you to access various functionalities of Pangu Bot, as detailed in [Table 2-1](#).

**Table 2-1** API descriptions

| Type         | Description  |
|--------------|--|
| Dialogue API | The primary function of the Q&A Server-Sent Events (SSE) API is to enable interactions with a designated assistant for question-and-answer tasks. By passing a <b>conversation_id</b> , it supports multi-turn conversations within the same dialogue session. |

# 3 Calling APIs

## 3.1 Making an API Request

This section describes the structure of a RESTful API request, and uses the IAM API for [creating an IAM user](#) as an example to describe how to call an API.

### Request URI

A request URI is in the following format:

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

**Table 3-1** Request URL

| Parameter     | Description  |
|---------------|--|
| URI-scheme    | Protocol used to transmit requests. All APIs use <b>HTTPS</b> .  |
| Endpoint      | Domain name or IP address of the server running the REST service. The endpoint varies between services in different regions. It can be obtained from <a href="#">Endpoints</a> .   |
| resource-path | API access path for performing a specified operation. Obtain the value from the URI of an API. For example, the resource-path of the API for creating an IAM user (by an administrator account) is <b>/v3.0/OS-USER/users</b> .  |
| query-string  | Query parameter, which is optional. Ensure that a question mark (?) is included before a query parameter that is in the format of " <b>Parameter name=Parameter value</b> ". For example, <b>limit=10</b> indicates that a maximum of 10 pieces of data is to be viewed. |

For example, to create an IAM user, you can use the IAM endpoint of any region (for example, for **CN-Hong Kong**, the IAM endpoint is **iam.ap-southeast-1.myhuaweicloud.com**), locate the **resource-path** (**/v3.0/OS-USER/users**) in the URI section of the API for [creating an IAM user \(by an](#)

**administrator account**), and finally combine these elements to form the complete request URL.

```
https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
```

**Figure 3-1** Example URL



**NOTE**

To simplify the URI display, each API is provided with only 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

HTTP-based request methods, which are also called operations or actions, specify the type of operations that you are requesting.

- **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**: requests a server resource header.
- **PATCH**: requests the server to update partial content of a specified resource. If the target resource does not exist, PATCH may create a resource.

For example, in the URI of the API for **creating an IAM user as an administrator**, the request method is **POST**. The request is as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
```

## Request Header

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

**Table 3-2** lists common request header fields.

**Table 3-2** Common request headers

| Parameter    | Mandatory | Description   |
|--------------|-----------|---|
| Content-Type | Yes       | Message body type (or format). You are advised to use the default value <b>application/json</b> . |

| Parameter     | Mandatory                          | Description  |
|---------------|------------------------------------|--|
| X-Auth-Token  | Mandatory for token authentication | User token. It is the response to the API for obtaining a user token (only this API does not require authentication). After the request is processed, the value of <b>X-Subject-Token</b> in the response header (Header) is the token value.  |
| X-Project-Id  | No                                 | Subproject ID, which is used in multi-project scenarios. The <b>X-Project-ID</b> field is mandatory in the request header for accessing resources in a subproject through AK/SK-based authentication.  |
| X-Sdk-Date    | Mandatory for AK/SK authentication | Request sending time. When AK/SK authentication is enabled, this field is automatically specified when SDK is used to sign the request.<br>For details, see <a href="#">Authentication</a> .<br>The format is YYYYMMDD'T'HHMMSS'Z'. The value is the current GMT time of the system. |
| Authorization | Mandatory for AK/SK authentication | Signature authentication information, When AK/SK authentication is enabled, this field is automatically specified when SDK is used to sign the request.<br>For details, see <a href="#">Authentication</a> .   |
| X-Language    | No                                 | Request language   |

For the API for [creating an IAM user as an administrator](#), if AK/SK-based authentication is enabled, the request with the header is as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****
```

## Request Body

A request body conveys information other than the request header and is generally sent in a structured format defined by the request header field **Content-Type**. The request body transfers content other than the request header. If the

request body contains Chinese characters, set Content-type to utf-8, for example, **Content-Type: application/json; charset=utf-8**.

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.

The following shows an example request (a request body included) of the API for **creating an IAM user**. You can learn about request parameters and related description from this example. The bold parameters need to be replaced for a real request.

- **accountid** indicates the ID of the account to which the IAM user belongs.
- **username** indicates the IAM username to be created.
- **\*\*\*\*\*** indicates the login password of the IAM user.

```
POST https://iam.cn-north-4.myhuaweicloud.com/v3.0/OS-USER/users (Chinese Mainland website)
```

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users (International website)
```

```
Content-Type: application/json
```

```
X-Sdk-Date: 20240416T095341Z
```

```
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,  
Signature=*****
```

```
{  
  "user": {  
    "domain_id": "accountid",  
    "name": "username",  
    "password": "*****",  
    "description": "IAM User Description"  
  }  
}
```

By now, all data required for an API request is available. You can send the request to call the API through curl, Postman, or coding.

## 3.2 Authentication

You can use either of the following authentication methods when calling APIs:

- AK/SK-based authentication: Requests are encrypted using AK/SK pairs.
- Token authentication: Requests are authenticated using a token.

### AK/SK-based Authentication

#### NOTE

- AK/SK-based authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, use token-based authentication.
- You can use the AK/SK in a permanent or temporary access key. The **X-Security-Token** field must be configured if the AK/SK in a temporary access key is used, and the field value is **security\_token** of the temporary access key.

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

- **AK**: access key ID. It is the unique identifier associated with the SK. The AK and SK are used together to sign requests cryptographically.
- **SK**: secret access key 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-based authentication, you can use the AK/SK to sign requests based on the signature algorithm or use a dedicated signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see [AK/SK Signing and Authentication Guide](#).

#### NOTICE

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

## Authentication Using Tokens

#### 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.
- Ensure that the token is valid while you use it. Using a token that will soon expire may cause API calling failures.

A token specifies certain permissions in a computer system. Authentication using a token adds the token to a request as its header during API calling to obtain permissions to operate APIs through IAM.

When calling the API to [obtain a user token](#), you must set **auth.scope** in the request body to **project**.

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username", //Username
          "password": "*****", //Login password
          "domain": {
            "name": "domainname" //Name of the account to which the user belongs
          }
        }
      }
    },
    "scope": {
      "project": {
        "name": "xxxxxxx" //Project name
      }
    }
  }
}
```

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://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

## 3.3 Returned Values

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

### Status Code

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 Codes](#).

If status code 201 is returned for the API for [creating an IAM user as an administrator](#), the request is successful.

### Response Header

A response header corresponds to a request header, for example, **Content-Type**.

For the API for [creating an IAM user as an administrator](#), the message header shown in [Figure 3-2](#) is returned.

**Figure 3-2** Response header fields for the API used to create an IAM user

```
"X-Frame-Options": "SAMEORIGIN",  
"X-IAM-ETag-id": "2562365939-d8f6f12921974cb097338ac11fcec8a",  
"Transfer-Encoding": "chunked",  
"Strict-Transport-Security": "max-age=31536000; includeSubdomains;",  
"Server": "api-gateway",  
"X-Request-Id": "af2953f2bcc67a42325a69a19e6c32a2",  
"X-Content-Type-Options": "nosniff",  
"Connection": "keep-alive",  
"X-Download-Options": "noopen",  
"X-XSS-Protection": "1; mode=block;",  
"X-IAM-Trace-Id": "token_██████████_null_af2953f2bcc67a42325a69a19e6c32a2",  
"Date": "Tue, 21 May 2024 09:03:40 GMT",  
"Content-Type": "application/json; charset=utf8"
```

### Response Body

A response body is generally returned in a structured format, corresponding to the **Content-Type** in the response header, and is used to transfer content other than the response header.

For the API for [creating an IAM user as an administrator](#), the following message body is returned. Only part of the response is shown here.

```
{  
  "user": {  
    "id": "c131886aec...",  
    "name": "IAMUser",  
    "description": "IAM User Description",  
    "areacode": "",  
    "phone": "",  
    "email": "****@***.com",  
    "status": null,  
    "enabled": true,  
    "pwd_status": false,  
    "access_mode": "default",
```

```
"is_domain_owner": false,  
"xuser_id": "",  
"xuser_type": "",  
"password_expires_at": null,  
"create_time": "2024-05-21T09:03:41.000000",  
"domain_id": "d78cbac1.....",  
"xdomain_id": "30086000.....",  
"xdomain_type": "",  
"default_project_id": null  
}  
}
```

If an error occurs during API calling, the system returns an error code and a message to you. The following shows the format of an error response body:

```
{  
  "error_msg": "Request body is invalid.",  
  "error_code": "IAM.0011"  
}
```

In the preceding information, **error\_code** is an error code, and **error\_msg** describes the error.

# 4 APIs

---

## 4.1 Implementing Q&A Through SSE

### Function

This Server-Sent Events (SSE) API for Q&A is used to push data in real time or near real time. Server-Sent Events (SSE) is a technology that enables pushing updates from a server to a browser via HTTP connection. Unlike the traditional request-response mode, SSE allows the server to proactively send data to a client without requiring the client to frequently make requests. In a Q&A system, the SSE API enables real-time update of answers to questions. For example, after a user submits a question, the server can push new answers or updates in real time through the SSE API, without requiring the user to continuously refresh the page to check whether there are new answers.

#### NOTE

Native Web SSE does not support POST requests. You need to use the [JavaScript library sse.js](#).

### URI

POST /v1/{project\_id}/koochat/assistants/{assistant\_id}/chat

**Table 4-1** Path Parameters

| Parameter    | Mandatory | Type   | Description   |
|--------------|-----------|--------|---|
| project_id   | Yes       | String | <p><b>Definition</b><br/>Project ID. For details, see <a href="#">Obtaining a Project ID and Name</a>.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b><br/>Project ID of the account.</p> <p><b>Default Value</b><br/>N/A</p>           |
| assistant_id | Yes       | String | <p><b>Definition</b><br/>ID of the assistant created on the Pangu Bot page. For details, see <a href="#">Obtaining an Assistant ID</a>.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b><br/>N/A</p> <p><b>Default Value</b><br/>N/A</p> |

## Request Parameters

**Table 4-2** Request header parameters

| Parameter    | Mandatory | Type   | Description   |
|--------------|-----------|--------|---|
| X-Auth-Token | No        | String | <p><b>Definition</b><br/>User authentication details. For how to obtain a token, see [Authentication] (pangubot_04_0005.xml).</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b><br/>N/A</p> <p><b>Default Value</b><br/>N/A</p> |

**Table 4-3** Request body parameters

| Parameter         | Mandatory | Type                            | Description   |
|-------------------|-----------|---------------------------------|---|
| question          | Yes       | String                          | <p><b>Definition</b><br/>User question.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b><br/>1 to 4,096 characters</p> <p><b>Default Value</b><br/>N/A</p>   |
| conversation_id   | No        | String                          | <p><b>Definition</b><br/>Session ID. If no session ID is carried or an incorrect session ID is carried, a new session ID is automatically generated.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b><br/>The value can contain 1 to 36 characters, including only letters, digits, hyphens (-), and underscores (_). UUID is recommended.</p> <p><b>Default Value</b><br/>N/A</p> |
| conversation_conf | No        | <b>Conversation Conf</b> object | <p><b>Definition</b><br/>Dialog configuration, which is required when a new session is created.</p> <p><b>Constraints</b><br/>N/A</p>   |
| source            | No        | String                          | <p><b>Definition</b><br/>Q&amp;A source.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>API</b>: dialog from API calling</li> <li>• <b>CONSOLE</b>: dialog from the Pangu Bot console</li> </ul> <p><b>Default Value</b><br/>N/A</p>   |

| Parameter  | Mandatory | Type    | Description   |
|------------|-----------|---------|---|
| debug      | No        | Boolean | <p><b>Definition</b><br/>Whether debugging is required.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>true:</b> Enable the debug mode.</li> <li>• <b>false:</b> Disable the debug mode.</li> </ul> <p><b>Default Value</b><br/><b>false</b></p> |
| extra_info | No        | String  | <p><b>Definition</b><br/>Extra dialog information, which is transparently transmitted to FunctionGraph through the skill.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b><br/>N/A</p> <p><b>Default Value</b><br/>N/A</p>   |
| user_id    | No        | String  | <p><b>Definition</b><br/>User ID on the user side. The value can be customized.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b><br/>0 to 36 characters</p> <p><b>Default Value</b><br/>N/A</p>  |

| Parameter | Mandatory | Type    | Description   |
|-----------|-----------|---------|---|
| stream    | No        | Boolean | <p><b>Definition</b><br/>Whether the results returned by the foundation model are output in streaming mode which implements the typewriter effect.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>true</b>: Streaming output</li> <li>• <b>false</b>: Non-streaming output</li> </ul> <p><b>Default Value</b><br/><b>false</b></p> |

**Table 4-4** ConversationConf

| Parameter  | Mandatory | Type    | Description  |
|------------|-----------|---------|--|
| ref_enable | No        | Boolean | <p><b>Definition</b><br/>Whether to enable reference source tracing.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>true</b>: Enable the reference source tracing. The returned result contains the References event. The file association information of the RAG and online search is returned.</li> <li>• <b>false</b>: Disable the reference source tracing.</li> </ul> <p><b>Default Value</b><br/><b>false</b></p> |

## Response Parameters

Status code: 200

**Table 4-5** Response body parameters

| Parameter                      | Type                                 | Description   |
|--------------------------------|--------------------------------------|---|
| event-message                  | <b>AnswerMessage</b> object          | <b>Definition</b><br>Streaming dialog reply, which needs to be concatenated to obtain the final answer. |
| event-resp                     | <b>RespMessage</b> object            | <b>Definition</b><br>Auxiliary information about a dialog, such as the intents and slots.               |
| event-references               | <b>ReferencesMessage</b> object      | <b>Definition</b><br>Reference source tracing.  |
| event-faq_log                  | <b>FaqLogMessage</b> object          | <b>Definition</b><br>FAQ logs.  |
| event-intention_retrieve_log   | <b>IntentionRetrieveLog</b> object   | <b>Definition</b><br>Intent retrieval logs.   |
| event-intention_distribute_log | <b>IntentionDistributeLog</b> object | <b>Definition</b><br>Intent distribution logs.  |
| event-rag_log                  | <b>RagLog</b> object                 | <b>Definition</b><br>RAG logs.  |
| event-llm_request_log          | <b>LlmRequestLog</b> object          | <b>Definition</b><br>LLM logs.  |
| event-moderation               | String                               | <b>Definition</b><br>Content moderation.<br><b>Range</b><br>N/A   |

**Table 4-6** AnswerMessage

| Parameter | Type   | Description   |
|-----------|--------|---|
| answer    | String | <b>Definition</b><br>Answer chunks returned in streaming mode.<br><b>Range</b><br>N/A |

| Parameter | Type | Description  |
|-----------|------|--|
| created   | Long | <b>Definition</b><br>Created event.<br><b>Range</b><br>N/A |

**Table 4-7** RespMessage

| Parameter       | Type                   | Description  |
|-----------------|------------------------|--|
| conversation_id | String                 | <b>Definition</b><br>Session ID.<br><b>Range</b><br>N/A  |
| created         | Long                   | <b>Definition</b><br>Response time.<br><b>Range</b><br>N/A   |
| answer          | String                 | <b>Definition</b><br>Complete reply.<br><b>Range</b><br>N/A  |
| request_id      | String                 | <b>Definition</b><br>Request ID.<br><b>Range</b><br>N/A  |
| reply_type      | Integer                | <b>Definition</b><br>Reply type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• 0: Skill</li> <li>• 1: Q&amp;A</li> <li>• 2: Chat</li> <li>• 3: No answer</li> </ul> |
| detail          | <b>ChatResp</b> object | <b>Definition</b><br>Return details.   |

| Parameter          | Type   | Description   |
|--------------------|--------|---|
| rewritten_question | String | <b>Definition</b><br>Query rewriting result.<br><b>Range</b><br>N/A |

**Table 4-8** ChatResp

| Parameter     | Type    | Description  |
|---------------|---------|--|
| log_id        | String  | <b>Definition</b><br>Dialog ID.<br><b>Range</b><br>N/A   |
| answer        | String  | <b>Definition</b><br>Engine reply.<br><b>Range</b><br>N/A  |
| cost          | Long    | <b>Definition</b><br>Time required.<br><b>Range</b><br>N/A   |
| resp_type     | Integer | <b>Definition</b><br>Response type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• 0: Skill</li> <li>• 1: Q&amp;A</li> </ul>   |
| score         | Float   | <b>Definition</b><br>Score.<br><b>Range</b><br>0 to 1  |
| fusion_result | Integer | <b>Definition</b><br>Q&A type. This parameter is valid only when <b>resp_type</b> is set to 1.<br><b>Range</b> <ul style="list-style-type: none"> <li>• 0: FAQ</li> <li>• 1: Knowledge</li> <li>• 2: LLM direct reply</li> </ul> |

| Parameter | Type                   | Description   |
|-----------|------------------------|---|
| skill_id  | String                 | <b>Definition</b><br>ID of the skill in use. This parameter is valid only when <b>resp_type</b> is set to 1.<br><b>Range</b><br>N/A |
| frame     | <b>FrameDTO</b> object | <b>Definition</b><br>Skill frame data. This parameter is valid only when <b>resp_type</b> is set to 1.                              |

**Table 4-9** FrameDTO

| Parameter                | Type                | Description  |
|--------------------------|---------------------|--|
| history_global_variables | Map<String,String > | <b>Definition</b><br>All variables collected in the current session (which may contain multiple dialog turns), including historical dialog turns. <b>Key</b> indicates the variable name, and <b>Value</b> indicates the variable value. |
| current_variables        | Map<String,String > | <b>Definition</b><br>Variables collected in the current dialog turn. <b>Key</b> indicates the variable name, and <b>Value</b> indicates the variable value.  |

**Table 4-10** ReferencesMessage

| Parameter  | Type                     | Description                          |
|------------|--------------------------|--------------------------------------|
| references | <b>references</b> object | <b>Definition</b><br>Reference data. |

**Table 4-11** references

| Parameter     | Type               | Description                         |
|---------------|--------------------|-------------------------------------|
| document_name | Map<String,Object> | <b>Definition</b><br>Document name. |

| Parameter      | Type                   | Description   |
|----------------|------------------------|---|
| type           | String                 | <b>Definition</b><br>Document type.<br><b>Range</b><br><b>document:</b> document  |
| reference      | Boolean                | <b>Definition</b><br>Whether the document is referenced.<br><b>Range</b><br><ul style="list-style-type: none"> <li>• <b>true:</b> referenced</li> <li>• <b>false:</b> not referenced</li> </ul> |
| referenceIndex | Integer                | <b>Definition</b><br>Index.<br><b>Range</b><br>N/A  |
| page_content   | String                 | <b>Definition</b><br>Original reference content.<br><b>Range</b><br>N/A   |
| metadata       | <b>metadata</b> object | <b>Definition</b><br>Raw data.  |

**Table 4-12** metadata

| Parameter | Type   | Description   |
|-----------|--------|---|
| title     | String | <b>Definition</b><br>Document title.<br><b>Range</b><br>N/A             |
| content   | String | <b>Definition</b><br>Original reference content.<br><b>Range</b><br>N/A |
| doc_name  | String | <b>Definition</b><br>Document chunk name.<br><b>Range</b><br>N/A        |

| Parameter | Type   | Description  |
|-----------|--------|--|
| _id       | String | <b>Definition</b><br>Document chunk ID.<br><b>Range</b><br>N/A |
| _score    | String | <b>Definition</b><br>Score.<br><b>Range</b><br>0 to 1          |

**Table 4-13** FaqLogMessage

| Parameter     | Type                         | Description  |
|---------------|------------------------------|--|
| directory_ids | Array of strings             | <b>Definition</b><br>Directory ID.                         |
| faqs          | Array of <b>faqs</b> objects | <b>Definition</b><br>FAQ information.                      |
| cost          | Integer                      | <b>Definition</b><br>Time required.<br><b>Range</b><br>N/A |

**Table 4-14** faqs

| Parameter | Type                              | Description  |
|-----------|-----------------------------------|--|
| id        | String                            | <b>Definition</b><br>FAQ ID.<br><b>Range</b><br>N/A                    |
| questions | Array of <b>questions</b> objects | <b>Definition</b><br>Question list.                                    |
| top_score | Float                             | <b>Definition</b><br>Maximum matching score.<br><b>Range</b><br>0 to 1 |

| Parameter | Type                                     | Description                       |
|-----------|--|-----------------------------------|
| answers   | Array of <a href="#">answers</a> objects | <b>Definition</b><br>Answer list. |

**Table 4-15** questions

| Parameter | Type   | Description   |
|-----------|--------|---|
| question  | String | <b>Definition</b><br>Hit question.<br><b>Range</b><br>N/A |
| score     | Float  | <b>Definition</b><br>Score.<br><b>Range</b><br>0 to 1     |

**Table 4-16** answers

| Parameter | Type    | Description  |
|-----------|---------|--|
| content   | String  | <b>Definition</b><br>Answer content.<br><b>Range</b><br>N/A  |
| type      | Integer | <b>Definition</b><br>Answer type.<br><b>Range</b> <ul style="list-style-type: none"><li>• 0: plain text</li><li>• 1: rich text</li></ul> |

**Table 4-17** IntentionRetrieveLog

| Parameter            | Type  | Description                            |
|----------------------|---|--|
| candidate_intentions | Array of <a href="#">candidate_intentions</a> objects | <b>Definition</b><br>Candidate intent. |

| Parameter | Type    | Description  |
|-----------|---------|--|
| cost      | Integer | <b>Definition</b><br>Time required.<br><b>Range</b><br>N/A |

**Table 4-18** candidate\_intentions

| Parameter      | Type                                       | Description   |
|----------------|--|---|
| intention_id   | String                                     | <b>Definition</b><br>Intent ID.<br><b>Range</b><br>N/A            |
| intention_name | String                                     | <b>Definition</b><br>Intent name.<br><b>Range</b><br>N/A          |
| questions      | Array of <a href="#">questions</a> objects | <b>Definition</b><br>Question list.                               |
| assistant_id   | String                                     | <b>Definition</b><br>Assistant ID.<br><b>Range</b><br>N/A         |
| version        | String                                     | <b>Definition</b><br>Version.<br><b>Range</b><br>N/A              |
| score          | Float                                      | <b>Definition</b><br>Score.<br><b>Range</b><br>0 to 1             |
| threshold      | Float                                      | <b>Definition</b><br>Acceptance threshold.<br><b>Range</b><br>N/A |

**Table 4-19** questions

| Parameter   | Type            | Description  |
|-------------|-----------------|--|
| embedding   | Array of floats | <b>Definition</b><br>Embedding list.                     |
| question    | String          | <b>Definition</b><br>Question.<br><b>Range</b><br>N/A    |
| question_id | String          | <b>Definition</b><br>Question ID.<br><b>Range</b><br>N/A |
| score       | Float           | <b>Definition</b><br>Score.<br><b>Range</b><br>0 to 1    |

**Table 4-20** IntentionDistributeLog

| Parameter                   | Type   | Description   |
|-----------------------------|--|---|
| distributed_skill_id        | String   | <b>Definition</b><br>Distributed skill ID.<br><b>Range</b><br>N/A   |
| distributed_skill_name      | String   | <b>Definition</b><br>Distributed skill name.<br><b>Range</b><br>N/A |
| intention_recognized_result | <a href="#">intention_recognized_result</a> object | <b>Definition</b><br>Intent recognition result.                     |
| score                       | Float  | <b>Definition</b><br>Score.<br><b>Range</b><br>0 to 1               |

**Table 4-21** intention\_recognized\_result

| Parameter      | Type                                       | Description   |
|----------------|--|---|
| intention_id   | String                                     | <b>Definition</b><br>Intent ID.<br><b>Range</b><br>N/A            |
| intention_name | String                                     | <b>Definition</b><br>Intent name.<br><b>Range</b><br>N/A          |
| questions      | Array of <a href="#">questions</a> objects | <b>Definition</b><br>Question list.                               |
| assistant_id   | String                                     | <b>Definition</b><br>Assistant ID.<br><b>Range</b><br>N/A         |
| version        | String                                     | <b>Definition</b><br>Version.<br><b>Range</b><br>N/A              |
| score          | Float                                      | <b>Definition</b><br>Score.<br><b>Range</b><br>0 to 1             |
| threshold      | Float                                      | <b>Definition</b><br>Acceptance threshold.<br><b>Range</b><br>N/A |

**Table 4-22** questions

| Parameter | Type            | Description                          |
|-----------|-----------------|--------------------------------------|
| embedding | Array of floats | <b>Definition</b><br>Embedding list. |

| Parameter   | Type   | Description   |
|-------------|--------|---|
| question    | String | <b>Definition</b><br>Question content.<br><b>Range</b><br>N/A |
| question_id | String | <b>Definition</b><br>Question ID.<br><b>Range</b><br>N/A      |
| score       | Float  | <b>Definition</b><br>Score.<br><b>Range</b><br>0 to 1         |

**Table 4-23** RagLog

| Parameter     | Type                     | Description   |
|---------------|--------------------------|---|
| directory_ids | Array of strings         | <b>Definition</b><br>Document directory ID.   |
| debug_info    | <b>debug_info</b> object | <b>Definition</b><br>Key information for invoking the RAG engine.                         |
| cost          | Integer                  | <b>Definition</b><br>Time required for calling the RAG engine API.<br><b>Range</b><br>N/A |

**Table 4-24** debug\_info

| Parameter           | Type                              | Description  |
|---------------------|-----------------------------------|--|
| doc_search_response | <b>doc_search_response</b> object | <b>Definition</b><br>Knowledge management search result. |
| websearch_response  | Array of strings                  | <b>Definition</b><br>Public network search result.       |
| rag_knowledge       | Array of strings                  | <b>Definition</b><br>Knowledge finally selected as RAG.  |

**Table 4-25** doc\_search\_response

| Parameter | Type                         | Description                                |
|-----------|------------------------------|--|
| docs      | Array of <b>docs</b> objects | <b>Definition</b><br>Document description. |

**Table 4-26** docs

| Parameter | Type   | Description  |
|-----------|--------|--|
| file_id   | String | <b>Definition</b><br>File ID.<br><b>Range</b><br>N/A       |
| title     | String | <b>Definition</b><br>File title.<br><b>Range</b><br>N/A    |
| subtitle  | String | <b>Definition</b><br>File subtitle.<br><b>Range</b><br>N/A |
| content   | String | <b>Definition</b><br>Content.<br><b>Range</b><br>N/A       |
| doc_type  | String | <b>Definition</b><br>File type.<br><b>Range</b><br>N/A     |
| file_path | String | <b>Definition</b><br>File path.<br><b>Range</b><br>N/A     |

| Parameter        | Type   | Description  |
|------------------|--------|--|
| update_date_time | String | <b>Definition</b><br>File update time.<br><b>Range</b><br>N/A              |
| score            | Float  | <b>Definition</b><br>Score.<br><b>Range</b><br>0 to 1                      |
| extra_info       | String | <b>Definition</b><br>Extended document information.<br><b>Range</b><br>N/A |

**Table 4-27** LlmRequestLog

| Parameter    | Type                                | Description                               |
|--------------|-------------------------------------|---|
| llm_chat_req | <a href="#">llm_chat_req</a> object | <b>Definition</b><br>LLM calling request. |

**Table 4-28** llm\_chat\_req

| Parameter      | Type                                      | Description   |
|----------------|---|---|
| messages       | Array of <a href="#">messages</a> objects | <b>Definition</b><br>List of messages in the request for calling a large model. |
| conversationId | String                                    | <b>Definition</b><br>Dialog ID.<br><b>Range</b><br>N/A                          |

**Table 4-29** messages

| Parameter | Type   | Description  |
|-----------|--------|--|
| role      | String | <b>Definition</b><br>Role.<br><b>Range</b><br>N/A          |
| content   | String | <b>Definition</b><br>Content issue.<br><b>Range</b><br>N/A |

## Example Requests

Calling the Q&A API in streaming mode

```
POST https://{endpoint}/v1/{project_id}/koochat/assistants/{assistant_id}/chat
{
  "stream" : true,
  "source" : "API",
  "question" : "Querying weather forecasts"
}
```

## Example Responses

**Status code: 200**

Request succeeded.

SSE response message for the dialog API.

Attribute name "event:{type}". "{type}" indicates the message event type.  
Attribute value "data" indicates the SSE message data.

```
event:faq_log
retry:0
data:{"cost":125,"directory_ids":[]}

event:intention_retrieve_log
retry:0
data:{"cost":138,"candidate_intentions":[]}

event:intention_distribute_log
retry:0
data:{"score":null,"distributed_skill_id":null,"distributed_skill_name":null,"intention_recognized_result":null}

event:qaflow_log
retry:0
data:{"cost":561,"directories":[]}

event:rag_log
retry:0
data:{"cost":444,"directory_ids":["123"],"debug_info":{"intention":"No intention","doc_search_response":{"docs":[]},"rag_knowledge":[],"websearch_response":[],"error_info":[],"planning_queries":["Hello"]}}

event:llm_request_log
```

```
retry:0
data:{"llm_chat_req":{"conversationId":"1769568381849004","customizedLlmConfig":{"region":"cn-southwest-2","url":"http://127.0.0.1:80/modelarts-maas/deepseek-v3/v1/chat/completions","service_type":2,"maas_model_name":"DeepSeek-V3","cloud_system_enable":true},"messages":[{"role":"system","content":"You are an intelligent dialog assistant. The user message is as follows:\nHello"}],"stream":true}}

event:llm_response_log
retry:0
data:{"first_token_cost":1555}

event:e2e_log
retry:0
data:{"first_token_cost":3571}

event:message
retry:0
data:{"created":1769590001702,"answer":"Hello","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001707,"answer":"","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001714,"answer":"Today is","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001715,"answer":"2026","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001715,"answer":"January","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001715,"answer":"28","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001716,"answer":"","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001716,"answer":"Wednesday afternoon","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001717,"answer":"How are you","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001717,"answer":"","conversation_id":"1769568381849004","request_id":"1769568381849004"}
```

```
event:message
retry:0
data:
{"created":1769590001718,"answer":"What","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:
{"created":1769590001718,"answer":"can","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001719,"answer":"I do for you","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001719,"answer":"?","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001719,"answer":"Whether you want question","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:
{"created":1769590001720,"answer":"answering","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:
{"created":1769590001720,"answer":"content","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001720,"answer":"creation, or","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001721,"answer":"technical support","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:
{"created":1769590001721,"answer":".", "conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001721,"answer":"I am","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:
{"created":1769590001721,"answer":"always","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
```

```

data:{"created":1769590001721,"answer":"at your
service","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:message
retry:0
data:{"created":1769590001722,"answer":".
","conversation_id":"1769568381849004","request_id":"1769568381849004"}

event:reference
retry:0
data:[]

event:resp
retry:0
data:{"created":1769590001723,"answer":"Hello! Today is Wednesday afternoon, January 28, 2026. How are
you? What can I do for you? Whether you want question answering, content creation, or technical support.
I am always at your service.
","conversation_id":"1769568381849004","request_id":"1769568381849004","detail":{"answer":"Hello!
Today is Wednesday afternoon, January 28, 2026. How are you? What can I do for you? Whether you want
question answering, content creation, or technical support. I am always at your service.
","resp_type":1,"llm_generated":false}}

event:message
retry:0
data:[DONE]

```

## Status Codes

| Status Code | Description  |
|-------------|--|
| 200         | Request succeeded.<br>SSE response message for the dialog API.<br>Attribute name "event:{type}". "{type}" indicates the message event type. Attribute value "data" indicates the SSE message data. |

## Error Codes

See [Error Codes](#).

# 5 Appendix

## 5.1 Status Codes

[Table 5-1](#) describes the status codes.

**Table 5-1** Status code descriptions

| Status Code | Code                          | Description   |
|-------------|-------------------------------|---|
| 100         | Continue                      | The client continues sending the request.<br>This interim response is used to inform the client that the initial part of the request has been received and has not yet been rejected by the server. |
| 101         | Switching Protocols           | Switching protocols. The target protocol must be later than the source protocol.<br>For example, the current HTTPS protocol is switched to a later version.   |
| 200         | OK                            | The request is processed successfully.  |
| 201         | Created                       | The request for creating a resource has been fulfilled.   |
| 202         | Accepted                      | The request has been accepted, but the processing has not been completed.   |
| 203         | Non-Authoritative Information | The server successfully processed the request, but is returning information that may be from another source.  |
| 204         | NoContent                     | The server has successfully processed the request, but has not returned any content.<br>The status code is returned in response to an HTTPS OPTIONS request.  |

| Status Code | Code              | Description   |
|-------------|-------------------|---|
| 205         | Reset Content     | The server has fulfilled the request, but the requester is required to reset the content.   |
| 206         | Partial Content   | The server has processed certain GET requests.  |
| 300         | Multiple Choices  | There are multiple options for the location of the requested resource. The response contains a list of resource characteristics and addresses from which the user or user agent (such as a browser) can choose the most appropriate one.  |
| 301         | Moved Permanently | The requested resource has been assigned a new permanent URI, and the new URI is contained in the response.   |
| 302         | Found             | The requested resource resides temporarily under a different URI.   |
| 303         | See Other         | Retrieve a location.<br>The response to the request can be found under a different URI and should be retrieved using a GET or POST method.  |
| 304         | Not Modified      | The requested resource has not been modified. When the server returns this status code, it does not return any resources.   |
| 305         | Use Proxy         | The requested resource must be accessed through a proxy.  |
| 306         | Unused            | The HTTPS status code is no longer used.  |
| 400         | BadRequest        | Invalid request.<br>The client should not repeat the request without modifications.   |
| 401         | Unauthorized      | The status code is returned after the client provides the authentication information, indicating that the authentication information is incorrect or invalid.   |
| 402         | Payment Required  | This status code is reserved for future use.  |
| 403         | Forbidden         | The server understood the request, but is refusing to fulfill it.<br>This status code indicates that the server successfully received and understood the request but refused to fulfill it. The denial is intentional, as the request has been configured to block access. To resolve this issue, modify the request directly instead of retrying it. |

| Status Code | Code                          | Description   |
|-------------|-------------------------------|---|
| 404         | NotFound                      | The requested resource cannot be found.<br>The client should not repeat the request without modifications.  |
| 405         | MethodNotAllowed              | The method specified in the request is not supported for the requested resource.<br>The client should not repeat the request without modifications.   |
| 406         | Not Acceptable                | The server cannot fulfill the request according to the content characteristics of the request.  |
| 407         | Proxy Authentication Required | This status code is similar to 401, but indicates that the client must first authenticate itself with the proxy.  |
| 408         | Request Time-out              | The server timed out while waiting for a request.<br>The client may repeat the request without modifications at any later time.   |
| 409         | Conflict                      | The request could not be processed due to a conflict.<br>This status code indicates that the resource that the client attempts to create already exists, or the request fails to be processed because of the update of the conflict request.                    |
| 410         | Gone                          | The requested resource is no longer available.<br>The status code indicates that the requested resource has been deleted.   |
| 411         | Length Required               | The server refuses to process the request without a defined Content-Length.   |
| 412         | Precondition Failed           | The server does not meet one of the preconditions that the requester puts on the request.   |
| 413         | Request Entity Too Large      | The request is larger than that a server is able to process. The server may close the connection to prevent the client from continuing the request. If the server cannot process the request temporarily, the response will contain a Retry-After header field. |
| 414         | Request-URI Too Large         | The URI provided was too long for the server to process.  |
| 415         | Unsupported Media Type        | The server is unable to process the media format in the request.  |

| Status Code | Code                            | Description   |
|-------------|---------------------------------|---|
| 416         | Requested range not satisfiable | The requested range is invalid.   |
| 417         | Expectation Failed              | The server fails to meet the requirements of the Expect request-header field.   |
| 422         | UnprocessableEntity             | The request is well-formed but is unable to be processed due to semantic errors.  |
| 429         | TooManyRequests                 | The client has sent more requests than its rate limit is allowed within a given amount of time, or the server has received more requests than it is able to process within a given amount of time. In this case, it is advisable for the client to re-initiate requests after the time specified in the Retry-After header of the response expires. |
| 500         | InternalServerError             | The server is able to receive the request but it could not understand the request.  |
| 501         | Not Implemented                 | The server does not support the requested function.   |
| 502         | Bad Gateway                     | The server is acting as a gateway or proxy and receives an invalid request from a remote server.  |
| 503         | ServiceUnavailable              | The requested service is invalid.<br>The client should not repeat the request without modifications.  |
| 504         | ServerTimeout                   | The request cannot be fulfilled within a given time. This status code is returned to the client only when the <b>Timeout</b> parameter is specified in the request.   |
| 505         | HTTP Version not supported      | The server does not support the HTTPS protocol version used in the request.   |

## 5.2 Error Codes

If an error code starting with **APIGW** is returned after you call an API, rectify the fault by referring to [Error Codes](#).

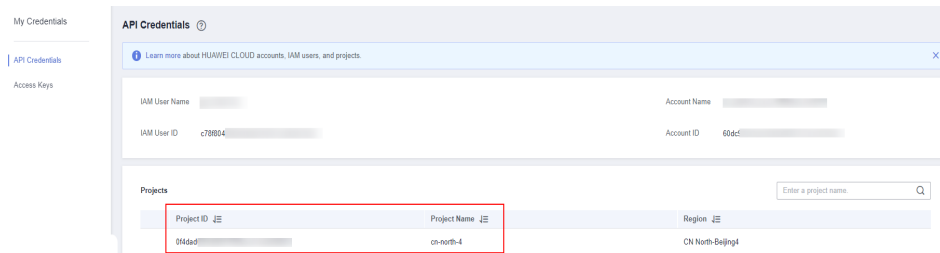
| Error Code | Error Message                | Description   | Solution  |
|------------|------------------------------|---|---|
| CBS.0001   | Request parameter error      | Invalid request parameters.<br>For example, invalid values, duplicate intent names.   | Modify the request body based on the error message. |
| CBS.0002   | Authentication failure error | Authorization failed.<br>For example, invalid/frozen resources or lack of access permissions.                                 | Re-login to resolve the issue.                      |
| CBS.0003   | Resource not found error     | The specified resource does not exist.<br>For example, the directory with <i>directory_id</i> is missing.                     | Verify the resource's association relationships.    |
| CBS.0004   | Internal error               | An internal error occurred.<br>For example, the HTTP request execution failed or the HTTP request construction was incorrect. | Contact technical support.                          |

## 5.3 Obtaining a Project ID and Name

A project ID or project name is required in some API requests. You need to obtain the project ID and name before calling an API.

### Obtaining a Project ID and Name from the Console

1. Log in to the Pangu Bot console.
2. In the upper right corner of the page, click the username and choose **My Credentials** from the drop-down list. The **API Credentials** page is displayed.
3. In the project list, view the **Project ID** and **Project Name**.

**Figure 5-1** Viewing the project ID and name

## Obtaining a Project ID by Calling an API

A project ID can also be obtained by calling a specific API. For details, see [Querying Project Information](#).

The API for obtaining a project ID is **GET https://{iam-endpoint}/v3/projects**. *{iam-endpoint}* indicates the endpoint of IAM, which can be obtained by referring to [Endpoints](#). For details about how to obtain the IAM endpoint, see [Authentication](#).

The following is an example response. For example, if CSS is deployed in region **xxx**, the value of **name** in the response body is **xxx**. The value of **id** in **projects** is the project ID.

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14exxxx",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14exxxx",
      "name": "xxx", //Project name, the name of the deployment zone.
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897dxxxx"
      },
      "id": "a4a5d4098fb4474fa22cd05f897dxxxx", //Project ID
      "enabled": true
    }
  ],
  "links": {
    "next": null,
    "previous": null,
    "self": "https://www.example.com/v3/projects"
  }
}
```

## 5.4 Obtaining the Assistant ID

When making API calls, some requests require you to include the assistant ID (**assistant\_id**). Therefore, it is necessary to retrieve this ID beforehand.

### Obtaining the Assistant ID from Pangu Bot Console

1. Log in to the Pangu Bot console.
2. In the navigation pane on the left, choose Assistants. On the displayed page, locate the desired assistant and click **Settings**.
3. Check the **Assistant ID** field for the required value.

**Figure 5-2** Check the Assistant ID

