

**Data Warehouse Service**

# **SDK Reference**

**Issue**            01  
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# 1 SDK Overview

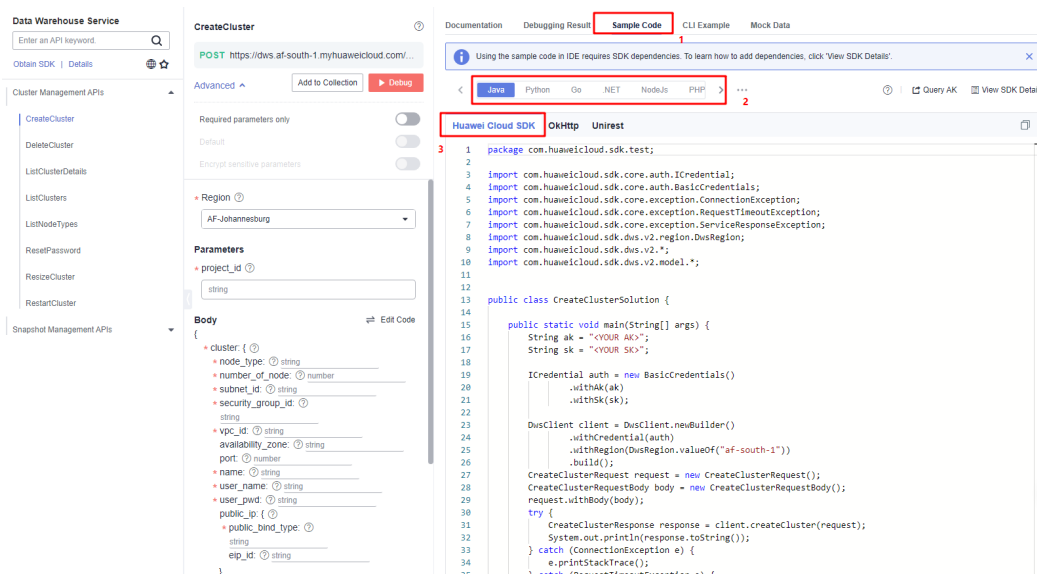
This document describes the software development kit (SDK) versions and download links.

## Generating SDK Code Online

The **API Explorer** can dynamically generate SDK code. You can use the API Explorer to use SDK. To access a cluster by calling Elasticsearch APIs on the ECS that is located in the same VPC as the cluster, perform the following steps:

- Step 1** Log in to Huawei Cloud API Explorer and choose **Analytics > Data Warehouse Service**. The DWS OpenAPI page is displayed.
- Step 2** Select an open API as needed, switch to the **Sample Code** tab page, select a programming language, and click **Huawei Cloud SDK** to view the SDK code. For details about the SDKs supported by GaussDB(DWS), see [Table 1](#).

Figure 1-1 Obtaining the SDK code



- Step 3** Set the mandatory parameters such as **Region**, **Parameters**, and **Body** on the left. The configured parameters are automatically used in the code on the right.

**Figure 1-2** Setting input parameters

```

Body
{
  * cluster: {
  * node_type: dws.m1.xlarge.ultrahigh
  * number_of_node: 3
  * subnet_id: 374eca02-cfc4-4de7-8ab5-d
  * security_group_id: dc3ec145-9029-4b39-b5a3-
  * vpc_id: 85b20d7e-9eb7-4b2a-98f3-
  * availability_zone: ap-southeast-1
  port: 8000
  * name: dws-demo
  * user_name: dbadminj
  * user_pwd: string
}

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    .withRegion(DwsRegion.valueOf("af-south-1"))
    .build();
    CreateClusterRequest request = new CreateClusterRequest();
    CreateClusterRequestBody body = new CreateClusterRequestBody();
    CreateClusterInfo clusterbody = new CreateClusterInfo();
    clusterbody.withNodeType("dws.m1.xlarge.ultrahigh")
    .withNumberOfNode(3)
    .withSubnetId("374eca02-cfc4-4de7-8ab5-dbebf7d9a720")
    .withSecurityGroupId("dc3ec145-9029-4b39-b5a3-ace5a01f772b")
    .withVpcId("85b20d7e-9eb7-4b2a-98f3-3c8843ea3574")
    .withAvailabilityZone("ap-southeast-1")
    .withPort(8000)
    .withName("dws-demo")
    .withUserName("dbadminj");
    body.withCluster(clusterbody);
    request.withBody(body);
    
```

----End

## SDK List

**Table 1** provides a list of SDKs supported by GaussDB(DWS). You can view the SDK update history, obtain the installation package, and view the guide in the GitHub repository.

**Table 1-1** Table 1. SDKs supported by GaussDB(DWS)

Language	GitHub Address	Documentation
Java	<a href="#">huaweicloud-sdk-java-v3</a>	<a href="#">Java SDK Usage Guide</a>
Python	<a href="#">huaweicloud-sdk-python-v3</a>	<a href="#">Python SDK User Guide</a>
Go	<a href="#">huaweicloud-sdk-go-v3</a>	<a href="#">Go SDK User Guide</a>
NodeJs	<a href="#">huaweicloud-sdk-nodejs-v3</a>	<a href="#">Node.js SDK User Guide</a>
PHP	<a href="#">huaweicloud-sdk-php-v3</a>	<a href="#">PHP SDK User Guide'</a>