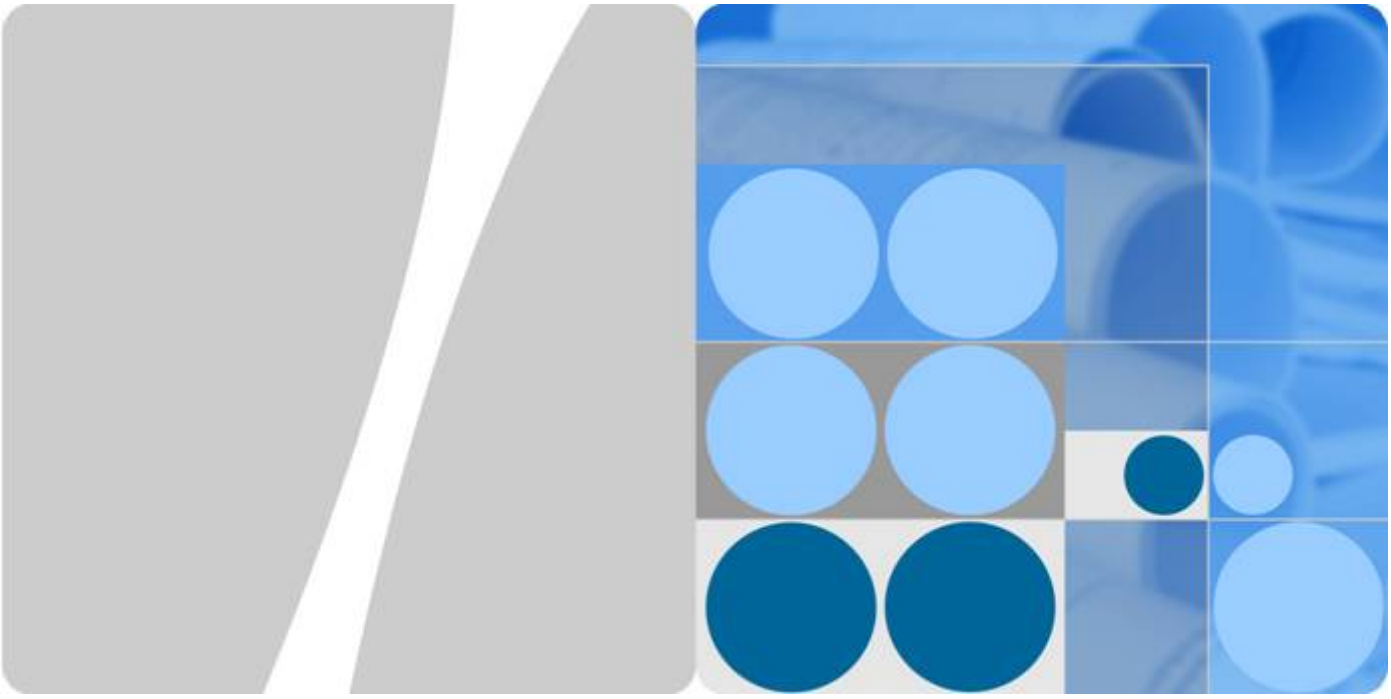

Data Lake Governance Center

Preparations

Issue 01

Date 2020-11-10

HUAWEI TECHNOLOGIES CO., LTD.

HUAWEI

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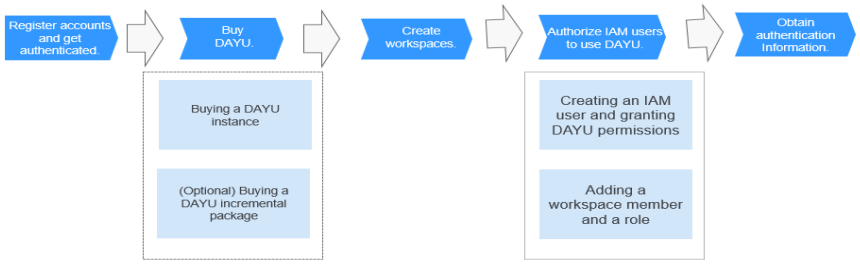
1 Making Preparations Before Using DGC

Before using DGC, register a HUAWEI CLOUD account and buy a DGC instance. See **Figure 1-1**.

Figure 1-1 Preparation process



1. Registering an Account and Getting Authenticated
2. Creating a DGC Instance.
   a. **Buying DGC Instances**
   b. **(Optional) Buying DGC Incremental Packages**
3. **Creating Workspaces**
4. **Authorizing IAM Users to Use DGC**
   a. **Creating Users and Granting DGC Permissions**
   b. **Adding Members and Assigning Roles**
5. **(Optional) Obtaining the Authentication Information**

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2 Registering an Account and Getting Authenticated

An account is an entity that accesses HUAWEI CLOUD. For details, see **My Account**. This section describes how to register a HUAWEI CLOUD account. If you already have a HUAWEI CLOUD account, skip this part.

1. Visit **HUAWEI CLOUD**.
2. In the upper right corner of the displayed page, click **Register**.
3. Complete the registration as instructed.

You are advised to complete real-name authentication for better experience in using cloud services. Real-name authentication is available for two types of accounts: individual account and enterprise account. For details on the authentication methods for different account types, click the following link: (If your account has passed the real-name authentication, skip this part.)

- **Individual Real-Name Authentication Process**
- **Enterprise Real-Name Authentication Process**

NOTE

- After you send the application for real-name authentication, it will take three work days at most before the application is approved.
- The account takes effect 40 minutes later after your real-name authentication is approved.

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3 Buying DGC Instances

DGC is billed on a package basis. The packages include **Starter**, **Basic**, **Advanced**, **Professional**, and **Enterprise**. They are billed yearly or monthly. Billing items include data integration, number of tasks scheduled per day, and number of assets supported by data governance.

- **Starter**: This version is applicable to data lake projects where no full-time data development personnel and data governance are required.
- **Basic**: This version is applicable to scenarios where 1 or 2 full-time data development personnel are required and no more than 1,000 original data tables are involved.
- **Advanced**: This version is applicable to scenarios where 5 to 10 full-time data development personnel are required, clear data standards and efficient data quality management are available, and 2,000 data tables are involved.
- **Professional**: This version is applicable to medium and large enterprises that have excellent data management teams, complete, high-quality systems, and 10 to 30 full-time data development personnel.
- **Enterprise**: This version is applicable to large enterprises with multiple branches.

Context

- Only users with the **DGC Administrator** or **Tenant Administrator** permissions can buy DGC instances or incremental packages. You need to grant the required permissions to users.

  NOTE

  Users with the **Tenant Administrator** permissions can perform all operations except IAM user management. For security purposes, you are not advised to grant the **Tenant Administrator** permissions to IAM users. Exercise caution when performing this operation.

Prerequisites

You have applied for a VPC, subnet, and security group.

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Buying a DGC Instance and Accessing the DGC Console

1. Log in to the **public cloud management console**.
2. Click  in the upper left corner of the displayed page to select a region.
3. In the upper left corner of the console, click **Service List** and choose **EI Enterprise Intelligence** > **DGC** to access the DGC console.
4. On the displayed page, click **Buy DGC Instance** to navigate to the page where you can buy an instance.
5. Configure the DGC instance parameters. See **Table 3-1** for parameter details.

   Table 3-1 DGC instance parameters

Parameter	Example	Description
Region	CN North-Beijng1	The region where the DGC instance resides. Resources in different regions cannot communicate with each other. Take care when selecting the region.
AZ	AZ2	The availability zone (AZ). Select an AZ by referring to **Region and AZ**.
Instance Name	DGC-test	The name of your DGC instance.
VPC	vpc1	The VPC, subnet, and security group where the DGC instance resides, which are used to communicate with the desired data source. For more information, see **Virtual Private Cloud User Guide**.
Subnet	subnet-1	
Security Group	sg-1	
Enterprise Project	default	The enterprise project associated with your DGC instance. An enterprise project facilitates management of cloud resources. For more information, see **Enterprise Management User Guide**. You can manage multiple projects in an enterprise and separately settle their costs. This parameter is available only when an enterprise project has been created on the **Enterprise Project Management** page.
Renew	N/A	Select **Auto-renew** to automatically renew the subscription by month or by year.

6. If there is no need to change the default settings, click **Buy Now** to display the page for confirming the order.
7. Click **Next**. After you pay for your instance, the instance you bought shows up on the DAYU homepage.

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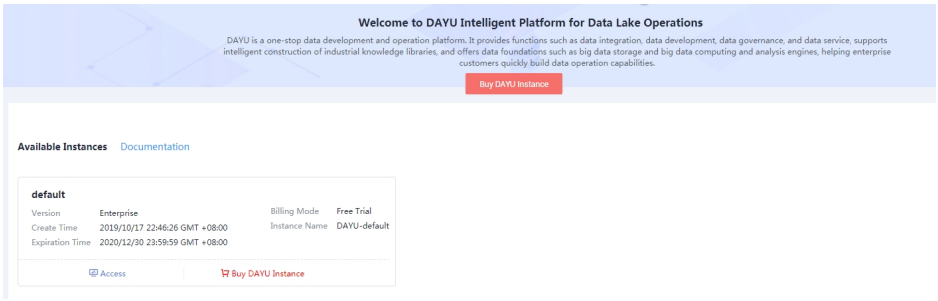
Figure 3-1 Viewing a DGC instance



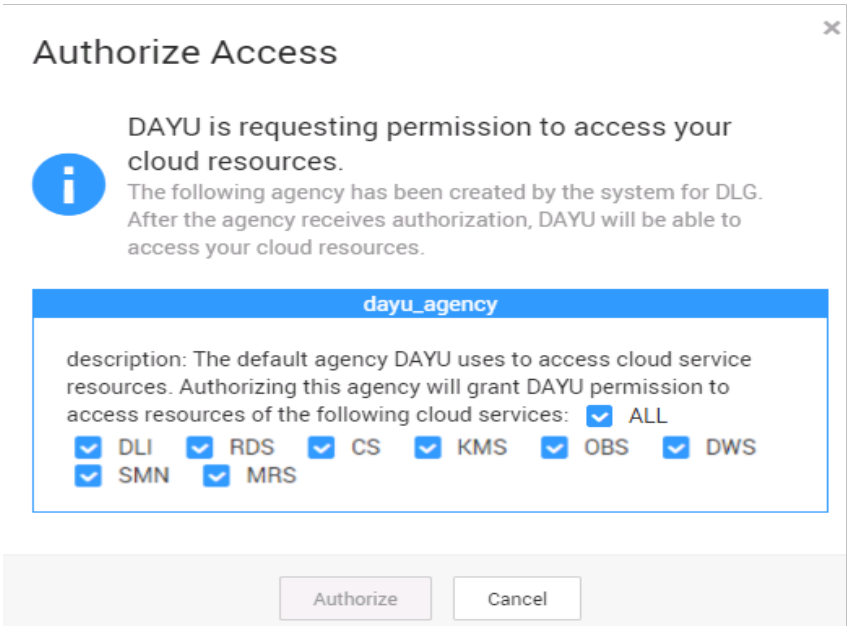
8. When you return to the DGC management console, the **Authorize Access** dialog box is displayed, prompting you to authorize the listed services.

   Select all services and click **Agree**. The platform automatically creates an agency. After the authorization is complete, the **Authorize Access** dialog box will not be displayed when you access the DGC console home page next time.

   If you select only some services for authorization, the system still displays the dialog box next time you access the DGC console homepage, prompting you to authorize access to unauthorized cloud services.

   DGC interacts with the cloud services listed in **Figure 3-2** and needs to collaborate with these cloud services. Therefore, you need to create a cloud service agency to delegate permissions to DGC so that DGC can use these cloud services and perform task scheduling and resource O&M on behalf of you.

Figure 3-2 Authorize Access dialog box



9. In the list of instances, locate the instance you just bought and click **Access** to access the DGC management console.

Trying a Basic DGC Instance and Entering the Console

Context

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- Each account has only one trial use opportunity.
- A basic DGC instance for free trial does not include CDM clusters. If you want to use CDM, buy a CDM incremental package. For details, see **(Optional) Buying DGC Incremental Packages**.
- You can use a basic DGC instance for free for 30 days. After the trial period expires, you need to buy an instance of one of the official versions provided.
- If you try the basic version, but you then buy the starter version, the resources created during the trial period will be released.
- During the trial period, you can buy any official version of DGC, but the trial period will expire immediately.
- Resources created during the trial period cannot be accessed once the trial period expires. After the trial period expires, data will be deleted seven days later. You will take full responsibility for any losses resulting from not buying a DGC instance in time. To access the free trial, follow the following instructions:

Procedure

1. Log in to the **public cloud management console**.
2. Click  in the upper left corner of the displayed page to select a region.
3. In the upper left corner of the console, click **Service List** and choose **EI Enterprise Intelligence** > **DGC** to access the DGC console.
4. Click **Try Basic**. Enter the page for trying a basic DGC instance.
5. Configure the DGC instance parameters. See **Table 3-1** for parameter details.

   Table 3-2 DGC instance parameters

Parameter	Example	Description
Region	CN North-Beijng1	The region where the DGC instance resides. Resources in different regions cannot communicate with each other. Take care when selecting the region.
Enterprise Project	default	This parameter is available only when an enterprise project has been created on the **Enterprise Project Management** page. An enterprise project facilitates management of cloud resources. For more information, see **Enterprise Management User Guide**.
Instance Name	DGC-test	The name of your DGC instance.

6. If there is no need to change the current configuration details, click **Try Now**.
7. In the **Free Trial Agreement dialog** box that is displayed, select **I have read and agreed to these terms** and click **OK**.

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8. In the list of trial instances, locate your instance and click **Access** to access the DGC console.

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4 (Optional) Buying DGC Incremental Packages

DGC provides users with the basic package and the incremental package. The basic package is billed on a yearly or monthly basis. The incremental is billed by usage or yearly/monthly.

This section describes how to buy a DGC incremental package. Before buying a DGC incremental package, ensure that you have bought DGC instances.

- DIS incremental package

  DIS addresses the challenge of transmitting data from outside the cloud to the inside. It builds data intake streams for custom applications capable of processing or analyzing streaming data.

  If you want to use DGC DIS, you need to buy a DIS incremental package after buying a DGC instance. Otherwise, skip this part. For details on how to buy a DIS incremental package, see the following links:

  a. **Buying a Pay-Per-Use DIS Incremental Package**

  b. (Optional) **Buying a Yearly/Monthly DIS Incremental Package**

- CDM incremental package

  In the case that a DGC instance includes a CDM cluster (except for the trial version), and the cluster meets your requirements, you do not need to buy a CDM incremental package.

  CDM can migrate data in batches between more than 20 homogeneous or heterogeneous data sources. For details on how to buy a CDM incremental package, see the following links:

  a. **Buying a Pay-Per-Use CDM Incremental Package**

  b. (Optional) **Buying a Yearly/Monthly CDM Incremental Package**

- DLM incremental package (exclusive cluster)

  A DGC instance does not include a exclusive DLM cluster. If you want to use DLM to create APIs, you need to create a DLM exclusive cluster. See **Creating an Exclusive Cluster** for details.

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Context

- When you buy a pay-per-use incremental package, the system automatically creates a CDM cluster or DIS stream based on your selected specifications.
- A yearly/monthly incremental package does not include a CDM cluster or DIS stream. If you only buy an incremental package, the package does not affect the purchased duration because there is no CDM cluster or DIS stream.
- If you want to enjoy the preferential price afforded by a yearly/monthly incremental package, you need to buy a pay-per-use incremental package and a yearly/monthly incremental package in the same region and workspace. The two packages must have the same specifications.

Buying a Pay-Per-Use DIS Incremental Package

1. Select an enabled instance and click **Buy**.
2. Access the page for buying a DGC incremental package and set parameters. See **Table 4-1** for parameter details.

Figure 4-1 Configuring parameters for a DIS incremental package

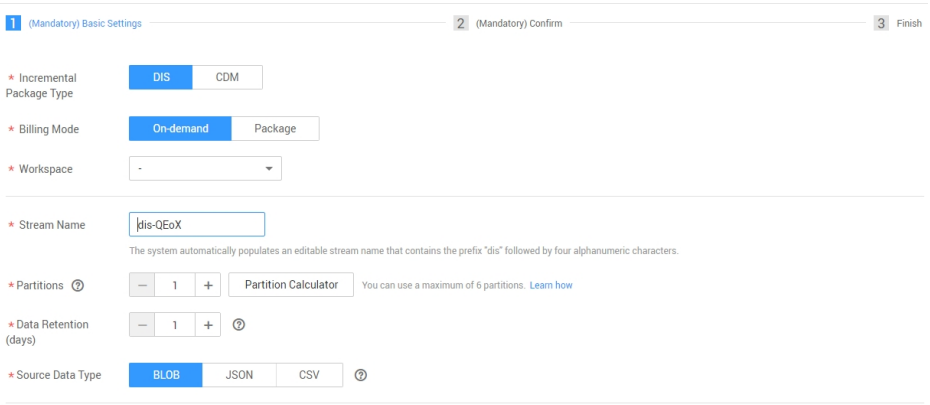

Table 4-1 Parameters for a DIS incremental package

Parameter	Description
Incremental Package Type	Select **DIS**.
Billing Mode	Select **On-demand**.
Workspace	Select the workspace where the DIS incremental package will be used. For example, if you want to buy a DIS incremental package for workspace ***A*** of instance ***test***, select ***A***. After you bought a DIS incremental package, it will show up in workspace ***A***.

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Parameter	Description
Stream Name	The name of the DIS stream to be created. Stream names must be unique. They can be up to 64 characters long. Only letters, numbers, hyphens (-), and underscores (_) are allowed.
Partitions	Partitions are the base throughput unit of a DIS stream. ● For a common DIS stream, the value of **Partitions** is an integer from 1 to 50. A user can create up 50 partitions. ● For an advanced DIS stream, the value of **Partitions** is an integer from 1 to 10. A user can create up to 10 partitions.
Partition Calculator	Used to estimate how many partitions are needed based on the information you entered. 1. Click **Partition Calculator**. 2. In the **Partition Calculator** dialog box, configure the **Average Record Size (KB)**, **Max. Records Written**, and **Consumer Applications** parameters. The **Estimated Partitions** field then displays the recommended number of partitions. The value of this field cannot be modified. **NOTE** Partition calculation formulas: ● Based on the traffic (the final value must be rounded up): Common stream: Average record size x (1 + 20%) x Max. written records/(1 x 1024 KB) (20% is the reserved partition percentage.) Advanced stream: Average record size x (1 + 20%) x Max. written records/(5 x 1024 KB) (20% is the reserved partition percentage.) ● Based on the consumer application quantity (the final value must be rounded up): (The number of consumer applications/2) x The number of partitions calculated based on the traffic (The result of the number of consumer applications/2 must reserve two decimals.) The larger value calculated based on the previous two formulas is considered as the estimated partition value. 3. Click **Use Estimated Value**. The estimated value is automatically used as the value of **Partitions**.
Data Retention (days)	The maximum number of days for which data can be preserved in DIS streams. Data will be deleted when the retention period expires. Value range: an integer ranging from 1 to 7

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Parameter	Description
Source Data Type	• **BLOB**: a collection of binary data stored as a single entity in a database management system. If **Source Data Type** is set to **BLOB**, the supported **Dump Destination** can be **OBS** or **MRS**. • **JSON**: an open-standard file format that uses easy-to-read text to transmit data objects consisting of attribute values and arrays. If **Source Data Type** is set to **JSON**, the supported **Dump Destination** can be **OBS**, **MRS**, **DLI**, **CloudTable**, or **DWS**. • **CSV**: a simple text format for storing tabular data in a plain text file. Commas are used as delimiters. If **Source Data Type** is set to **CSV**, the supported **Dump Destination** can be **OBS**, **MRS**, **DLI**, or **DWS**.
Auto Scaling	You can enable or disable the auto scaling switch when creating a stream. Set the switch to  or , respectively, to enable or disable auto scaling. **NOTE** You can choose whether to enable auto scaling when creating a stream. You can also modify the auto scaling attributes for a stream that has already been created.
Down To	The lower limit for automatic scale-down. The number of target partitions for automatic scale-down cannot drop below this lower limit.
Up To	The upper limit for automatic scale-up. The number of target partitions for automatic scale-up cannot exceed this upper limit.

3. Click **Buy Now**. If there are no changes made to the specifications, submit the order.
4. After you bought a DIS stream, it will show up in the corresponding workspace.

Figure 4-2 Viewing a stream



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Buying a Yearly/Monthly DIS Incremental Package

1. Select an enabled instance and click **Buy**.
2. Access the page for buying a yearly/monthly DGC incremental package and do the following:
   a. **Incremental Package Type**: Select **DIS**.
   b. **Billing Mode**: Select **Package**.
   c. **Resource Package Type**: Select **Common Stream Partition Hour**.
   d. **Required Duration**: Specify a validity period for the package.
   e. **Quantity**: The number of subscribed packages. For example, if you specify **1 month** for **Required Duration** and **2** for **Quantity**, you will have a 1500-hour quota and the validity period is 1 month.
3. Click **Buy Now**. If there are no changes made to the specifications, submit the order.

Buying a Pay-Per-Use CDM Incremental Package

1. Select an enabled instance and click **Buy**.
2. Access the page for buying a DGC incremental package and set parameters. See **Table 4-2** for parameter details.

Figure 4-3 Configuring parameters for a CDM incremental package

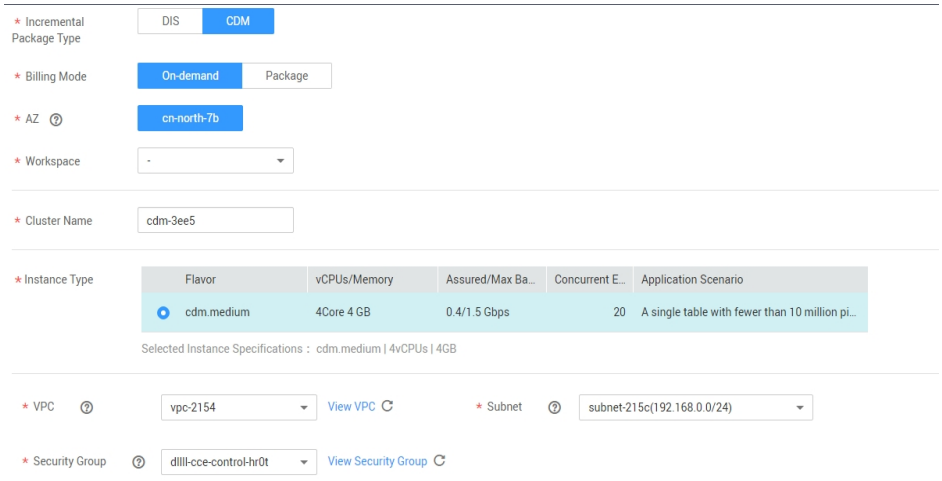

Table 4-2 Parameters for a CDM incremental package

Parameter	Description
Incremental Package Type	Select **CDM**.
Billing Mode	Select **On-demand**.
AZ	The availability zone (AZ). Select an AZ by referring to **Region and AZ**.

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Parameter	Description
Workspace	Select the workspace where the CDM incremental package will be used. For example, if you want to buy a CDM incremental package for workspace ***A*** of instance ***test***, select ***A***. After you bought a cluster, it will show up in the ***A*** workspace.
Cluster Name	The name of your CDM cluster.
Instance Type	The following lists the specifications supported by the CDM cluster. • **cdm.xlarge**: 16 vCPUs and 32 GB of memory. The maximum and assured bandwidths are 10 Gbit/s and 4 Gbit/s. Up to 100 jobs can be concurrently executed. This flavor is well suited to migration of terabytes of data and 10GE high-speed bandwidth. • **cdm.4xlarge**: 64 vCPUs and 128 GB of memory. The maximum and assured bandwidths are 36 Gbit/s and 40 Gbit/s, respectively. A maximum of 200 jobs can be concurrently executed.
VPC Subnet Security Group	The VPC that the CDM cluster belongs to. The CDM cluster must be able to communicate with the data source to be connected. VPCs can be selected according to the residing networks of the migration source and destination. • If the CDM cluster and the data source to be connected belong to different VPCs or the data source is on-premises, the CDM cluster needs to be bound to an elastic IP address (EIP). • If the data source is a cloud service, and the network of the CDM cluster is the same as that of the cloud service, the CDM cluster does not need to be bound to an EIP. • If the data source is a cloud service, and the CDM cluster and the cloud service are in the same VPC but different subnets, configure security group rules to interconnect the CDM cluster with the cloud service. For more information, see ***Virtual Private Cloud User Guide***.

3. Click **Buy Now**. If there are no changes made to the specifications, submit the order.
4. After you bought a cluster, it will show up in the corresponding workspace.

Buying a Yearly/Monthly CDM Incremental Package

1. Select an enabled instance and click **Buy**.
2. Access the page for buying a yearly/monthly DGC incremental package and do the following:
   a. **Incremental Package Type**: Select **CDM**.

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b. **Billing Mode**: Select **Package**.

c. **Required Duration**: Specify a validity period for the package.

d. **Quantity**: The number of subscribed packages. For example, if you specify **1 month** for **Usage Duration** and **2** for **Quantity**, you will have a 1490-hour quota and the validity period is 1 month.

3. Click **Buy Now**. If there are no changes made to the specifications, submit the order.

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5 Creating Workspaces

This section describes how to create workspaces. By default, a workspace named **default** is created for users who bought a DGC instance. They are also assigned the **Administrator** role. You can use the default workspace or create a workspace by referring to this section.

Administrators can manage user (member) permissions, resources, and compute engines in a DGC workspace.

The workspace is a basic unit for member management as well as role and permission assignment. Each team has an independent workspace.

You can access the management center, data assets, data quality control, business metrics, data design, data lake mall, data development, data migration, and data ingestion modules, but only after your account is added to a workspace and assigned the permissions required to perform such operations.

In the **Workspace Management** tab, users can be added to a workspace and assigned roles such as **Administrator**, **Developer**, **O&M engineer**, and **Visitor** that are preset in DGC.

Prerequisites

A DGC instance has been bought. See **Buying DGC Instances** for details.

Context

- A workspace is created for any user who bought a DGC instance by default. That user is also assigned the role of administrator.
- The HUAWEI CLOUD account (master account) or IAM user (sub-user) who creates the DGC instance has the permissions required to create a workspace. In a DGC instance created by a master account, if an IAM user of the account needs to create a workspace, the IAM user must be assigned the **DGC Administrator** or **Tenant Administrator** policy. By default, the master account has all the permissions for a DGC instance created by a sub-user.

  HUAWEI CLOUD accounts or users with the **DGC Administrator** or **Tenant Administrator** policy can perform all operations on DGC by default.

  Accounts or users with the **Tenant Administrator** policy can perform all operations except the IAM user management. For security purposes, you are

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not advised to grant this permission to IAM users. Exercise caution when performing this operation.

- After workspaces are created, they cannot be deleted. You can disable workspaces when they are no longer needed and enable them again when you need these workspaces.
- Only users with the **Security Administrator** policy and assigned the **Administrator** role can add workspace members.
- Users assigned the **DGC User** policy can access a workspace only after being added as members of the workspace.

Creating a Workspace

1. Log in to the DGC management console using a master account.
2. Click **Workspace Management**.
3. Click **Create**. On the **Workspace Information** page, set parameters described in **Table 5-1**. After the configuration is complete, click **OK**.

Figure 5-1 Workspace information

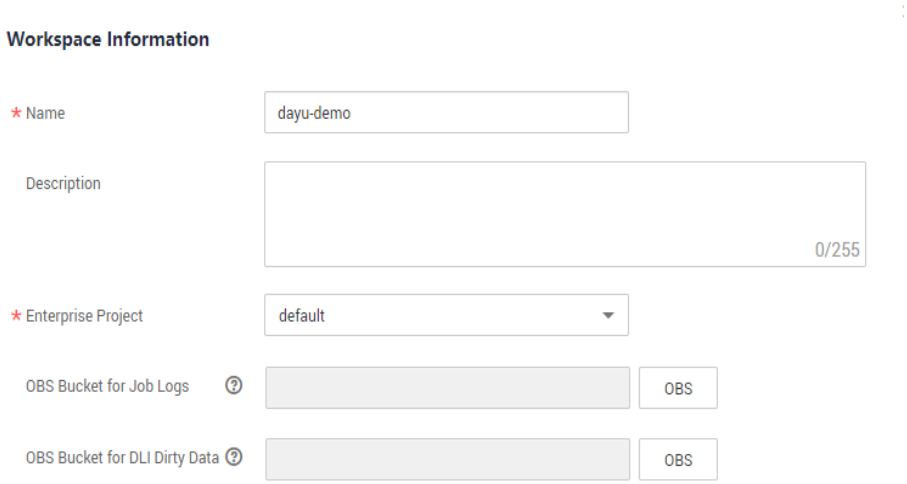

Table 5-1 Parameters for creating a workspace

Parameter	Description
Name	Workspace names can contain only letters, digits, underscores (_), and hyphens (-). They cannot exceed 32 characters. In a DGC instance, workspace names must be unique.
Description	A description of the workspace to be created.

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Parameter	Description
Enterprise Project	The enterprise project that associated with the workspace. An enterprise project facilitates management of cloud resources. For more information, see **Enterprise Management User Guide**. You can create enterprise projects based on the enterprise organization structure. Then you can manage resources across different regions by enterprise project, grant different permissions to user groups, and add them to enterprise projects. If you have not enabled an enterprise project, you can select enterprise project **default**. On the management console, click **Enterprise** in the upper right corner to access the **Enterprise Project Management** page to create an enterprise project.
OBS Bucket for Job Logs	The OBS bucket for storing logs of DGC data development jobs. To use DGC Data Development, workspace members must have the read and write permissions on the OBS bucket for storing job logs. Otherwise, the system cannot read or write job logs generated during data development. • Click **OBS**. You can select a created OBS bucket. The selected OBS bucket is globally configured in the current workspace. • If this parameter is not set, job logs generated during data development are stored in the OBS bucket named **dlf-log-{projectId}** by default. {projectId} indicates the project ID. You can move the pointer to the username in the upper right corner of the console and choose **My Credentials** from the drop-down list. On the **My Credentials** page, you can view the project ID you need.
OBS Bucket for DLI Dirty Data	The OBS bucket for storing dirty data generated during DLI SQL execution in DGC Data Development. To use DGC Data Development to develop and execute DLI SQL statements, workspace members must have the read and write permissions on the OBS bucket where DLI dirty data is stored. Otherwise, the system cannot read or write the dirty data generated during DLI SQL execution. • Click **OBS**. You can select a created OBS bucket. The selected OBS bucket is globally configured in the current workspace. • If this parameter is not set, dirty data generated during DLI SQL execution is stored in the OBS bucket named **dlf-log-{projectId}** by default.

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6 Authorizing IAM Users to Use DGC

6.1 Creating Users and Granting DGC Permissions

This chapter describes **IAM** fine-grained permissions management for your DGC. With IAM, you can:

- Use your HUAWEI CLOUD account to create IAM users for employees based on the organizational structure of your enterprise. Each IAM user has their own security credentials, providing access to DGC resources.
- Grant users only the permissions required to perform a task.
- Entrust a HUAWEI CLOUD account or cloud service to perform professional and efficient O&M on your DGC resources.

If your HUAWEI CLOUD account does not need individual IAM users for permissions management, skip over this chapter.

This section describes the procedure for granting permissions. See **Creating an IAM User and Granting DGC Permissions** for details.

Context

- Before granting permissions to a user group, familiarize yourself with the workspace role permissions that can be added to the user group and select permissions based on actual requirements. For details on the supported system permissions, see **DGC Permissions Management**.
- For details on the system policies of other services, see **Permissions Policies**.

Creating an IAM User and Granting DGC Permissions

1. **Create a user group and assign permissions.**.

   Log in to the **IAM console** using a HUAWEI CLOUD account, create a user group, and assign the DGC permissions to the group. For example, assign **DGC User** to the group. In addition, assign the permissions of other cloud services that DGC depends on. For details, see **DGC Permissions Management**.

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NOTE

- If an IAM user wants to create a workspace, you need to assign the IAM user the **DGC Administrator** policy. Users with the **DGC Administrator** policy can perform all operations on DGC.
- Old users are not assigned the **DGC Administrator** policy. If required, log in to the IAM console and assign this role to old users.

2. **Create an IAM user.**

   Create a user on the IAM console and add the user to the group created in step 1.

6.2 Adding Members and Assigning Roles

This section describes how to add workspace members and assign roles to members, as well as the differences between roles.

Workspace members include administrators, developers, O&M engineers, and visitors. The default role of a workspace creator is administrator. For details on role permissions, see **List of permissions**.

If you only want to use the DGC instance yourself, skip over this section.

If you plan to allow other users to use your DGC instance, create IAM users by referring to **Creating Users and Granting DGC Permissions** and create workspaces by referring to **Creating Workspaces**.

Context

Only the HUAWEI CLOUD account (that is, the master account) that creates the DGC instance or a sub-user who has the **Security Administrator** policy can add members to the workspace.

Adding a Member and Assigning a Role

1. Log in to the DGC management console. Select an instance and click **Access**. On the displayed page, choose the **Workspace Management** tab.
2. Click **Manage Member** in the **Operation** column.
3. Click **Add** under **Workspace Member**. The **Add Member** dialog box is displayed. Select a member account from the drop-down list and select a role for it. Then, click **OK**.

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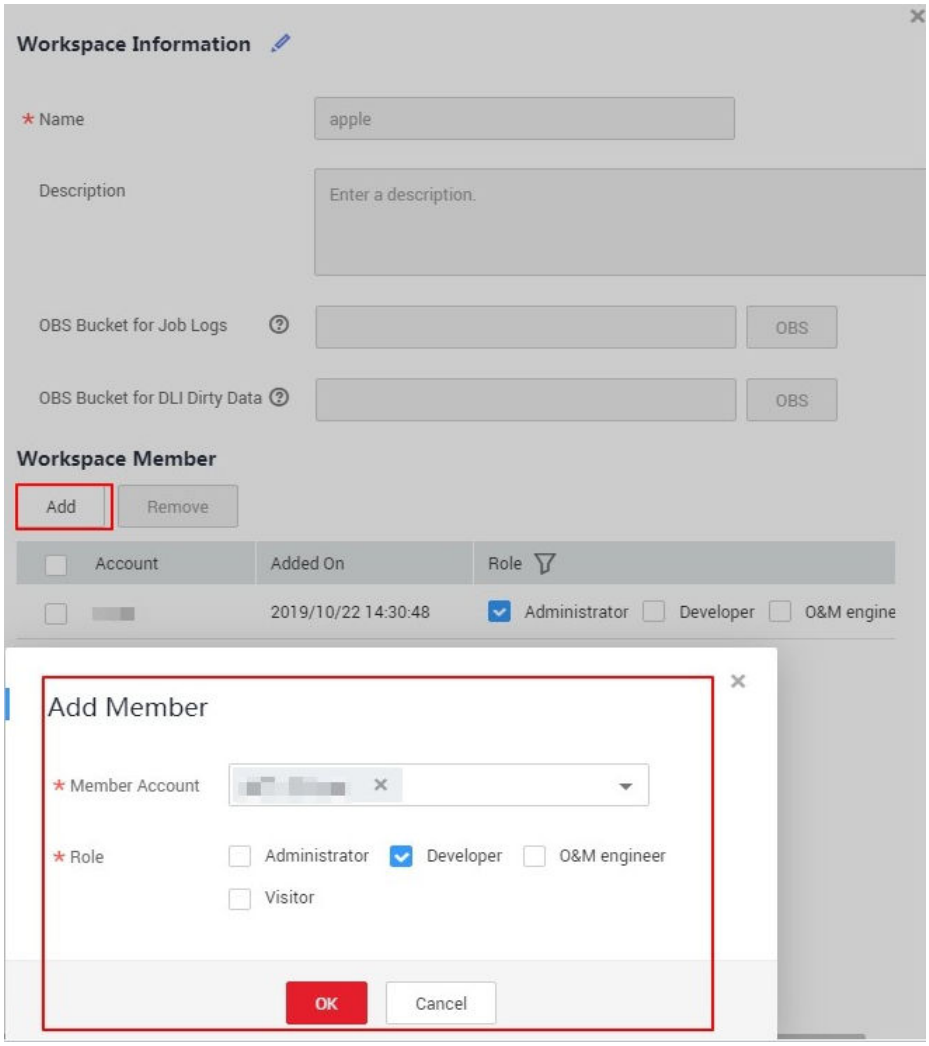
Figure 6-1 Adding a member



4. You can view or modify the members and roles in the member list, or delete members from the workspace.

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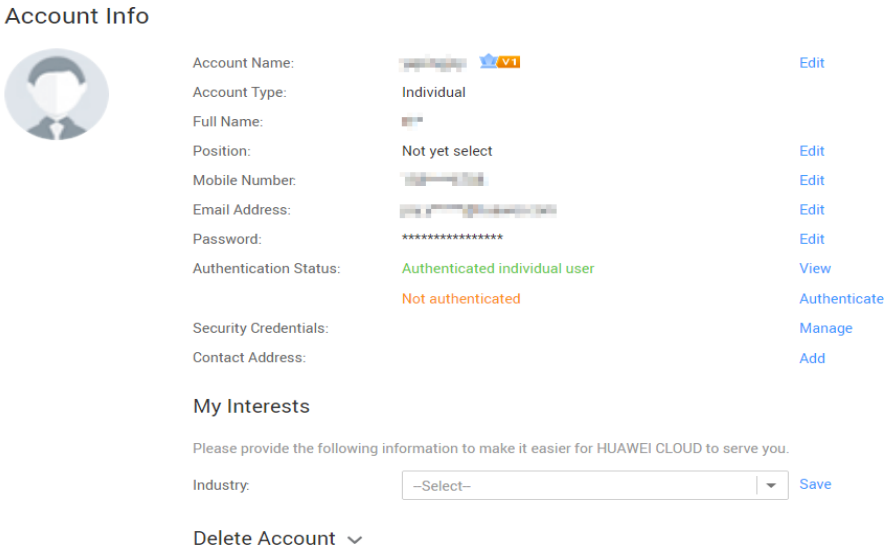
7 (Optional) Obtaining the Authentication Information

When DGC is used for migrating batch data from on-premises servers to the cloud, Object Storage Service (OBS) is required for data storage. You must obtain an Access Key ID (AK) and Secret Access Key (SK) to access OBS.

Obtaining an AK/SK Pair

1. Log in to the **HUAWEI CLOUD**, move your pointer to the username in the upper right corner of the page, and select **Basic Information** from the drop-down list.
2. On the **My Account** page, choose **Account Info** > **Manage**. See **Figure 7-1**.

Figure 7-1 Account Info page



3. On the **My Credentials** page, choose **Access Keys** > **Add Access Key**. See **Figure 7-2**.

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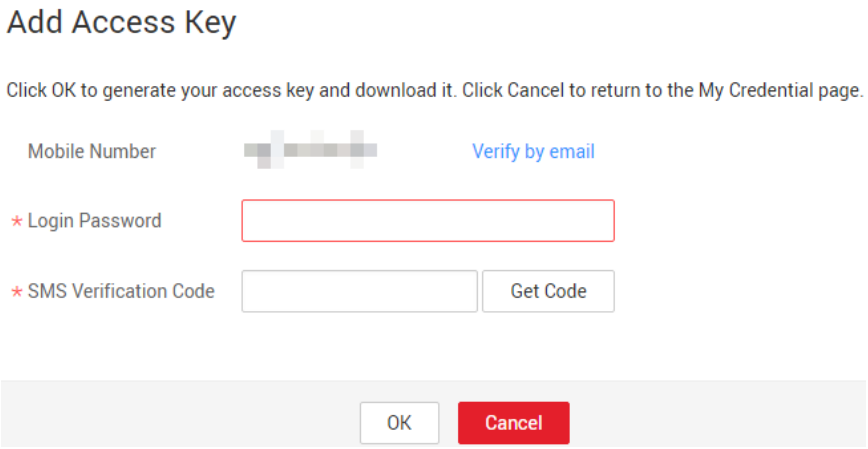
Figure 7-2 Access Keys page



4. In the **Add Access Key** dialog box, select where the verification code will be sent, and enter the verification code. See **Figure 7-3**.

Figure 7-3 Add Access Key dialog box



5. Click **OK** and save the access key file. The access key file is saved to your browser's configured download location. Open the **credentials.csv** file to view the AK and SK.

Obtaining a Project ID

A project is a group of user resources. To view the project IDs of different regions, choose **My Credentials > Projects**.

Obtaining a Region and Endpoint

To obtain regions and endpoints, see **Regions and Endpoints**.

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