

Document Database Service

Getting Started

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1 Getting Started with DDS

This section describes DDS instance and product types, helping you quickly create and connect to a DDS instance.

How Do I Select a Cluster, Replica Set, or Single Node?

DDS supports different deployment architectures, such as cluster, replica set, and single node, meeting requirements of different service scenarios.

Table 1-1 Instance types

DB Instance Type	Application Scenario
Cluster	A cluster consists of three types of nodes: dds mongos, shard, and config. You can select the number of dds mongos and shard nodes and the cluster configuration you need based on your performance requirements. Cluster instances are recommended for service systems that require both high availability and scalability.
Replica set	A replica set consists of three nodes: primary, secondary, and hidden. You can operate the primary and secondary nodes directly. Disaster recovery and high availability are provided for replica set instances without being noticed by the upper-layer applications. Replica set instance suits small- and medium-sized service systems that require high availability.
Single node	A database that is deployed on a single VM does not have the HA feature. As a supplement to the cluster and replica set architectures, the single-node architecture is useful for R&D, testing, and non-core data storage of enterprises. NOTE Huawei Cloud has discontinued the sale of DDS single node instances since July 15, 2023.

Connection Methods

DDS provides multiple connection methods. You can connect to a DDS instance through a private network, public network, or Data Admin Service (DAS). For details, see [Table 3](#). Data Admin Service (DAS) enables you to manage DB instances on a web-based console, simplifying database management and improving working efficiency. You can connect to and manage DB instances through DAS. By default, you have the remote login permission. Using DAS to connect to your DB instance is recommended, which is more secure and convenient.

Table 1-2 Connection methods

Connection Method	IP Address	Scenario	Description
Connection using DAS	No IP address required	DAS provides GUI-based data management functions, allowing you to perform operations directly in the console. The functions, including SQL execution, advanced database management, and intelligent O&M, help you manage databases easily, securely, and intelligently. By default, DAS connection permissions are enabled for DDS instances.	• Easy to use, secure, advanced, and intelligent • Recommended
Connection over a private network	Private IP address	A private IP address is provided by default. If your applications are running on an ECS in the same region and VPC as your DDS instance, connect to the DDS instance through the private IP address.	• Secure and high-performance • For faster transmission and enhanced security, you are advised to migrate your applications to an ECS in the same VPC subnet as your DDS instance and connect to the instance through a private network.

Connection Method	IP Address	Scenario	Description
Connection over a public network	EIP	- If your application is running on an ECS that is in a different region from the one where your DB instance is located, connect to the instance using an EIP. - If you use a third-party device or your local device to connect to a DDS instance, connect to the DB instance using an EIP.	- Less secure - For faster transmission and enhanced security, you are advised to migrate your applications to an ECS in the same VPC subnet as your DDS instance and connect to the instance through a private network. - An EIP must be purchased. For details, see EIP Pricing Details. - A public NAT gateway must be purchased. For details, see NAT Gateway Pricing Details.

2 Buying and Connecting to a Cluster Instance

This section describes how to quickly purchase a cluster instance on the management console and how to connect to the cluster instance through DAS.

Operation Process

Process	Description
Preparations	Sign up for a Huawei Cloud account and top up your account.
Step 1: Quickly Buy a Cluster Instance	Select required basic settings and additional options and buy a DDS DB instance.
Step 2: Connect to a Cluster Instance Through DAS	DAS provides a GUI and allows you to perform visualized operations on the console.

Preparations

1. [Sign up for a Huawei Cloud account](#).
2. For fine-grained permissions management on Huawei Cloud resources, use Identity and Access Management (IAM) to create a user or user group and grant it specific operation permissions. For details, see [Creating a User and Granting Permissions](#).

Video Tutorial

This video shows you how to buy a cluster instance on the console and connect to it.

Step 1: Quickly Buy a Cluster Instance

Step 1 Go to the [Quick Config](#) page.

Step 2 On the displayed page, select a billing mode and configure information about your DB instance. Then, click **Next**.

Figure 2-1 Basic configurations

Basic Information

Billing Mode: Yearly/billable **Pay-per-use**

Region: cn-north-4

Project: cn-north-4

AZ: **cn-north-4a** cn-north-4b cn-north-4c AZ7 cn-north-4a,cn-north-4b,AZ7

DB Instance Type: **Cluster** Replica set Cloud native replica set

Compatible MongoDB Version: 5.0 **4.4** 4.2 4.0 3.4

Specifications: **General purpose** Enhanced II

Recommended Specifications

dds mongos

Node Class: 2 vCPUs | 8GB Ultra-high I/O 4 vCPUs | 16GB Ultra-high I/O 6 vCPUs | 16GB Ultra-high I/O 1 vCPU | 4 GB Ultra-high I/O

Maximum Connections: 2,000 4,000 16,000 1,000

Nodes: 2 The quantity ranges from 2 to 32.

Currently selected: dds.mongos.tl.large.4.mongos (2 vCPUs | 8GB)

shard

Node Class: 4 vCPUs | 16GB Ultra-high I/O 8 vCPUs | 16GB Ultra-high I/O 1 vCPU | 4 GB Ultra-high I/O

Storage: 100GB 100GB 200 GB

Maximum Connections: 4,000 16,000 1,000

Nodes: 2 The quantity ranges from 2 to 64.

Currently selected: dds.mongos.tl.large.4.shard (4 vCPUs | 16GB)

config

Node Class: 4 vCPUs | 8 GB

Storage Space: 20GB

Table 2-1 Basic configurations

Parameter	Example Value	Description
Billing Mode	Pay-per-use	Select a billing mode, Yearly/Monthly or Pay-per-use. - For yearly/monthly instances - Specify Required Duration, and the system deducts the fees incurred from your account based on the service price. - If you do not expect to continue using the instance much after it expires, you can change the billing mode from yearly/monthly to pay-per-use. For details, see Yearly/Monthly to Pay-per-Use. NOTE Instances billed on a yearly/monthly basis cannot be deleted. They can only be unsubscribed from. For details, see Unsubscribing from a Yearly/Monthly Instance. - For pay-per-use instances - You are billed for usage based on how much time the service is in use. - If you expect to use the service extensively over a long period of time, you can change its billing mode from pay-per-use to yearly/monthly to reduce costs. For details, see Pay-per-Use to Yearly/Monthly.
Region	CN-Hong Kong	The region where the resource is located. NOTE Instances deployed in different regions cannot communicate with each other through a private network, and you cannot change the region of an instance once it is purchased. Exercise caution when selecting a region.
Project	default	The project corresponds to the current region and can be changed.

Parameter	Example Value	Description
AZ	az1	An AZ is a part of a region with its own independent power supply and network. AZs are physically isolated but can communicate through internal network connections. Instances can be deployed in a single AZ or three AZs. NOTE The 3-AZ deployment is not available in all regions. If the 3-AZ option is not displayed on the page for you to buy an instance, try a different region. • If your service requires low network latency between instances, you deploy the components of the instance in the same AZ. If you select a single AZ to deploy your instance, anti-affinity deployment is used by default. With an anti-affinity deployment, your primary, secondary, and hidden nodes are deployed on different physical machines for high availability. • If you want to deploy an instance across AZs for disaster recovery, select three AZs. In this deployment mode, the dds mongos, shard, and config nodes are evenly distributed across the three AZs.
DB Instance Type	Cluster	Select Cluster. A cluster instance includes three types of nodes: dds mongos, shard, and config. Each shard or config is a three-node replica set to ensure high availability.
Compatible MongoDB Version	4.4	The database version.
CPU Type	x86	DDS supports x86 and Kunpeng CPU architectures.

Parameter	Example Value	Description
Specifications	Enhanced II	With an x86 architecture, you have the following options: • General-purpose (s6): S6 instances are suitable for applications that require moderate performance generally but occasional bursts of high performance, such as light-workload web servers, enterprise R&D and testing environments, and low- and medium-performance databases. • Enhanced II (c6): C6 instances have multiple technologies optimized to provide stable powerful compute performance. 25 GE intelligent high-speed NICs are used to provide ultra-high bandwidth and throughput, making it an excellent choice for heavy-load scenarios. It is suitable for websites, web applications, general databases, and cache servers that have higher performance requirements for compute and network resources. It is also an optimal choice for medium- and heavy-load enterprise applications. For details about the supported instance specifications, see Cluster Instance Specifications.
dds mongos Node Class	2 vCPUs 8 GB	For details about the dds mongos CPU and memory, see Cluster Instance Specifications. You can change the class of an instance after it is created. For details, see Changing the Instance Class.
dds mongos Nodes	2	The value ranges from 2 to 32. You can add nodes to an instance after it is created if necessary. For details, see Adding Cluster Instance Nodes.
shard Node Class	4 vCPUs 16 GB	For details about the shard CPU and memory, see Cluster Instance Specifications. The shard node stores user data but cannot be accessed directly. You can change the class of an instance after it is created. For details, see Changing the Instance Class.

Parameter	Example Value	Description
shard Storage Space	100 GB	The value ranges from 10 GB to 5,000 GB and must be an integer multiple of 10. You can scale up an instance after it is created. For details, see Scaling Up a Cluster Instance . NOTE - If the storage space you purchased exceeds 600 GB and the remaining storage is 18 GB, the instance becomes Read-only. - If the storage space you purchased is less than 600 GB and the storage space usage reaches 97%, the instance becomes Read-only. In these cases, delete unnecessary resources or expand the capacity.
shard Nodes	2	The value ranges from 2 to 32. You can add nodes to an instance after it is created if necessary. For details, see Adding Cluster Instance Nodes .
config Node Class	2 vCPUs 4 GB	For details about the CPU and memory of the config node, see Cluster Instance Specifications . You can change the class of an instance after it is created. For details, see Changing the Instance Class .
config Storage Space	20 GB	Based on the functions and minimum requirements of the config node, the storage space of the config node is set to 20 GB by default. You cannot scale up the storage of the node after it is created.

Figure 2-2 Network, Required Duration, and Quantity

Network

VPC Q Subnet Q Security Group Q

⚠ After the DDS instance is created, the VPC cannot be changed.

Available private IP addresses in the subnet: 148

In a security group, rules that authorize connections to DB instances apply to all DB instances associated with the security group.

Enterprise Project

Enterprise Project Q [View Project Management](#) ⓘ

Required Duration and Quantity

Required Duration

☐ Auto-renew Fee deduction and Renewal duration

Quantity + ⓘ You can create 10 more DB instances. [Increase Quota](#)

Table 2-2 Network settings

Parameter	Example Value	Description
VPC	default	The VPC where your DB instances are located. A VPC isolates networks for different services. It allows you to easily manage and configure private networks and change network configurations. You need to create or select the required VPC. For details, see Creating a VPC with a Subnet in the <i>Virtual Private Cloud User Guide</i>. If no VPC is available or has been created, DDS allocates a VPC to you by default. NOTE After the DDS instance is created, the VPC cannot be changed.
Enterprise Project	default	This parameter is only available to enterprise users. To use it, submit a service ticket. An enterprise project allows you to group cloud resources under specific projects, making it easier to manage cloud resources and users. Select an enterprise project from the drop-down list. The default project is default. For details, see Project Management in <i>Enterprise Management User Guide</i>. To customize an enterprise project, click Enterprise in the upper right corner of the console. The Enterprise Management page is displayed. For details, see Creating an Enterprise Project in <i>Enterprise Management User Guide</i>.

Step 3 On the displayed page, confirm the instance details.

- For yearly/monthly instances
 - If you need to modify the specifications, click **Previous** to return to the previous page.
 - If you do not need to modify the specifications, read and agree to the service agreement and click **Pay Now** to go to the payment page and complete the payment.
- For pay-per-use instances
 - If you need to modify the specifications, click **Previous** to return to the previous page.
 - If you do not need to modify the specifications, read and agree to the service agreement and click **Submit** to start creating the instance.

Step 4 Click **Back to Instance List**. After a DDS instance is created, you can view and manage it on the **Instances** page.

- When an instance is being created, the status displayed in the **Status** column is **Creating**. This process takes about 15 minutes. After the creation is complete, the status changes to **Available**.

- DDS enables an automated backup policy by default, but you can disable it after an instance is created. After an instance is created, DDS automatically creates a full backup.

----End

Step 2: Connect to a Cluster Instance Through DAS

Data Admin Service (DAS) enables you to manage DB instances on a web-based console, simplifying database management and improving working efficiency. You can connect to and manage DB instances through DAS. By default, you have the permission required for remote login. It is recommended that you use the DAS service to connect to DB instances. DAS is secure and convenient.

Procedure

Step 1 [Log in to the management console.](#)

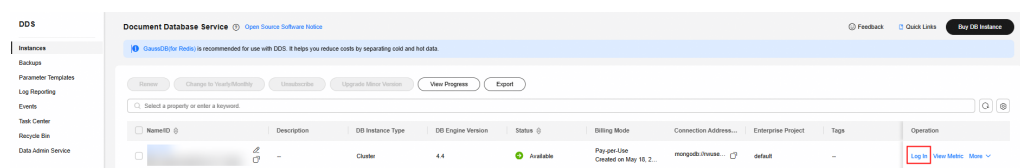
Step 2 Click  in the upper left corner and select a region and a project.

If you want to use compute and network resources exclusively, [enable a DeC](#) and [apply for DCC resources](#). After enabling a DeC, you can select the DeC region and project.

Step 3 Click  in the upper left corner of the page and choose **Databases > Document Database Service**.

Step 4 On the **Instances** page, locate the target DB instance and click **Log In** in the **Operation** column.

Figure 2-3 Logging in to DAS



Alternatively, click the target DB instance on the **Instances** page. On the displayed **Basic Information** page, click **Log In** in the upper right corner of the page.

Step 5 In the **Instance Login** dialog box, enter the correct information and click **Log In** to access and manage your database.

Step 6 After the login is successful, you can perform operations such as creating a database, managing accounts, and managing databases.

For details, see [DDS Database Management](#).

----End

3

Buying and Connecting to a Replica Set Instance

This section describes how to quickly purchase a replica set instance on the management console and how to connect to the replica set instance through DAS.

Operation Process

Process	Description
Preparations	Sign up for a Huawei Cloud account and top up your account.
Step 1: Quickly Buy a Replica Set Instance	Select required basic settings and additional options and buy a DDS DB instance.
Step 2: Connect to a Replica Set Instance Through DAS	DAS provides a GUI and allows you to perform visualized operations on the console.

Preparations

1. [Sign up for a Huawei Cloud account](#).
2. For fine-grained permissions management on Huawei Cloud resources, use Identity and Access Management (IAM) to create a user or user group and grant it specific operation permissions. For details, see [Creating a User and Granting Permissions](#).

Step 1: Quickly Buy a Replica Set Instance

Step 1 Go to the [Quick Config](#) page.

Step 2 On the displayed page, select a billing mode and configure information about your DB instance. Then, click **Next**.

Figure 3-1 Basic configurations

Basic Information

Billing Mode

Yearly/MonthlyPay-per-use

Region

Regions are geographic areas isolated from each other. For low network latency and quick resource access, select the nearest region.

Project

AZ

cn-north-4a

cn-north-4b

cn-north-4c

AZ7

cn-north-4a, cn-north-4b, AZ7

Deploy your DB instance in a single AZ or three AZs for high availability.

DB Instance Type

ClusterReplica setCloud native replica set

Replica sets deliver reliability and disaster recovery, they can provide excellent reliability and are suitable for small and medium sized enterprises. Replica sets you can still create: 49. [Increase Quota](#)

Compatible MongoDB Version

5.0

4.4

4.2

4.0

3.4

Specifications

General-purposeEnhanced II

Recommended Specifications

Medium- and Lightweight Databases

2 vCPUs | 8GB

100 GB

Ultra-high I/O

Maximum Connections: 1,000

Custom

2 vCPUs | 8GB

10

GB

Ultra-high I/O

Maximum Connections: 1,000

Currently selected dds.mongodb.c6.large.4.repset | 2 vCPUs | 8GB

Disk Encryption

DisableEnable

Table 3-1 Basic configurations

Parameter	Example Value	Description
Billing Mode	Pay-per-use	Select a billing mode, Yearly/Monthly or Pay-per-use. - For yearly/monthly instances - Specify Required Duration, and the system deducts the fees incurred from your account based on the service price. - If you do not expect to continue using the instance much after it expires, you can change the billing mode from yearly/monthly to pay-per-use. For details, see Yearly/Monthly to Pay-per-Use. - NOTE - Instances billed on a yearly/monthly basis cannot be deleted. They can only be unsubscribed from. For details, see Unsubscribing from a Yearly/Monthly Instance. - For pay-per-use instances - You are billed for usage based on how much time the service is in use. - If you expect to use the service extensively over a long period of time, you can change its billing mode from pay-per-use to yearly/monthly to reduce costs. For details, see Pay-per-Use to Yearly/Monthly.

Parameter	Example Value	Description
Region	CN-Hong Kong	The region where the resource is located. NOTE Instances deployed in different regions cannot communicate with each other through a private network, and you cannot change the region of an instance once it is purchased. Exercise caution when selecting a region.
Project	default	The project corresponds to the current region and can be changed.
AZ	az1	An AZ is a physical region where resources have independent power supplies and networks. AZs are physically isolated but interconnected through an internal network. Instances can be deployed in a single AZ or three AZs. - If your service requires low network latency between instances, you deploy the components of the instance in the same AZ. If you select a single AZ to deploy your instance, anti-affinity deployment is used by default. With an anti-affinity deployment, your primary, secondary, and hidden nodes are deployed on different physical machines for high availability. - If you want to deploy an instance across AZs for disaster recovery, select three AZs. In this deployment mode, the primary, secondary, and hidden nodes are evenly distributed across three AZs. NOTE The 3-AZ deployment is not available in all regions. If the 3-AZ option is not displayed on the page for you to buy an instance, try a different region.
DB Instance Type	Replica set	Select Replica set. A replica set consists of the primary node, secondary node, and hidden node. If a primary node goes down or becomes faulty, a secondary node is automatically assigned to the primary role and continues normal operation. If a secondary node is unavailable, a hidden node will take the role of the secondary to ensure high availability.
Compatible MongoDB Version	4.4	5.0 4.4 4.2 4.0 3.4

Parameter	Example Value	Description
CPU Type	x86	DDS supports x86 and Kunpeng CPU architectures. NOTE This parameter is available only for MongoDB 4.0 and 3.4. You do not need to set this parameter for other versions. The default value is x86. • x86 x86 CPUs use the Complex Instruction Set Computing (CISC) instruction set. Each instruction can be used to execute low-level hardware operations. CISC instructions vary in length, and tend to be complicated and slow compared to Reduced Instruction Set Computing (RISC). • Kunpeng The Kunpeng CPU architecture uses RISC. The RISC instruction set is smaller and faster than CISC, thanks to the simplified architecture. Kunpeng CPUs also offer a better balance between power and performance than x86. Kunpeng CPUs feature high density, low power consumption, and excellent cost-effectiveness, making them ideal for heavy-load applications.
Specifications	Enhanced II (c6)	With an x86 architecture, you have the following options: • General-purpose (s6): S6 instances are suitable for applications that require moderate performance generally but occasional bursts of high performance, such as light-workload web servers, enterprise R&D and testing environments, and low- and medium-performance databases. • Enhanced II (c6): C6 instances have multiple technologies optimized to provide stable powerful compute performance. 25 GE intelligent high-speed NICs are used to provide ultra-high bandwidth and throughput, making it an excellent choice for heavy-load scenarios. It is suitable for websites, web applications, general databases, and cache servers that have higher performance requirements for compute and network resources. It is also an optimal choice for medium- and heavy-load enterprise applications.
Recommended Specifications	2 vCPUs 8 GB	Currently, medium- and lightweight database specifications and customized specifications are supported. NOTE • The storage space ranges from 10 GB to 5,000 GB.

Figure 3-2 Network, Required Duration, and Quantity

The screenshot displays the configuration interface for a Document Database Service (DDS) instance. It is divided into four main sections:

- Network:** Features dropdown menus for VPC (set to 'default_vpc'), Subnet (set to 'default_subnet'), and Security Group (set to 'default'). A warning message states: 'After the DDS instance is created, the VPC cannot be changed. Available private IP addresses in the subnet: 235. In a security group, rules that authorize connections to DB instances apply to all DB instances associated with the security group.'
- Enterprise Project:** Includes a dropdown menu for selecting an enterprise project (currently set to '--Select--') and a link to 'View Project Management'.
- Required Duration and Quantity:** Contains a 'Required Duration' section with buttons for 1, 2, 3, 4, 5, 6, 7, 8, 9 months, 1 year (selected), 2 years, and 3 years. Below this is an 'Auto-renew' checkbox and a link to 'Free deduction and Renewal duration'.
- Quantity:** Shows a numeric input field set to '1' and a link to 'Increase Quota' with a note: 'You can create 49 more DB instances.'

Table 3-2 Network settings

Parameter	Example Value	Description
VPC	default_vpc	The VPC where your DB instances are located. A VPC isolates networks for different services. It allows you to easily manage and configure private networks and change network configurations. You need to create or select the required VPC. For details, see Creating a VPC with a Subnet in the <i>Virtual Private Cloud User Guide</i>. If no VPC is available or has been created, DDS allocates a VPC to you by default. NOTE After the DDS instance is created, the VPC cannot be changed.
Enterprise Project	default	This parameter is only available to enterprise users. To use it, submit a service ticket. An enterprise project allows you to group cloud resources under specific projects, making it easier to manage cloud resources and users. Select an enterprise project from the drop-down list. The default project is default. For details, see Project Management in <i>Enterprise Management User Guide</i>. To customize an enterprise project, click Enterprise in the upper right corner of the console. The Enterprise Management page is displayed. For details, see Creating an Enterprise Project in <i>Enterprise Management User Guide</i>.

Table 3-3 Required duration and quantity

Parameter	Example Value	Description
Required Duration	1 year	The system will automatically calculate the fee based on the validity period you have selected.
Auto-renew	Check the box.	- By default, this option is not selected. - If you select this option, the auto-renewal cycle is determined by the selected required duration.
Quantity	1	The purchase quantity depends on the replica set instance quota. If your current quota does not allow you to purchase the required number of instances, you can apply for increasing the quota as prompted. Yearly/Monthly instances that were purchased in batches have the same specifications except for the instance name and ID.

Step 3 On the displayed page, confirm the instance details.

- For yearly/monthly instances
 - If you need to modify the specifications, click **Previous** to return to the previous page.
 - If you do not need to modify the specifications, read and agree to the service agreement and click **Pay Now** to go to the payment page and complete the payment.
- For pay-per-use instances
 - If you need to modify the specifications, click **Previous** to return to the previous page.
 - If you do not need to modify the specifications, read and agree to the service agreement and click **Submit** to start creating the instance.

Step 4 Click **Back to Instance List**. After a DDS instance is created, you can view and manage it on the **Instances** page.

- When an instance is being created, the status displayed in the **Status** column is **Creating**. This process takes about 15 minutes. After the creation is complete, the status changes to **Available**.
- DDS enables the automated backup policy by default. After an instance is created, you can modify or disable the automated backup policy. After an instance is created, DDS automatically creates a full backup.

----End

Step 2: Connect to a Replica Set Instance Through DAS

Data Admin Service (DAS) enables you to manage DB instances on a web-based console, simplifying database management and improving working efficiency. You can connect to and manage DB instances through DAS. By default, you have the permission required for remote login. It is recommended that you use the DAS service to connect to DB instances. DAS is secure and convenient.

Procedure

Step 1 [Log in to the management console.](#)

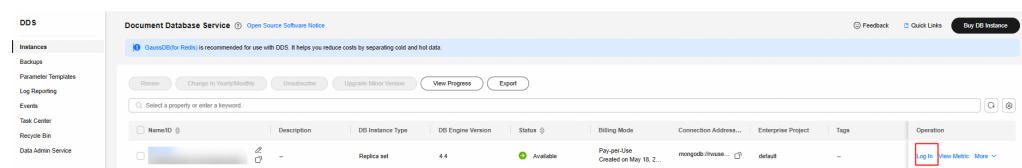
Step 2 Click  in the upper left corner and select a region and a project.

If you want to use compute and network resources exclusively, [enable a DeC](#) and [apply for DCC resources](#). After enabling a DeC, you can select the DeC region and project.

Step 3 Click  in the upper left corner of the page and choose **Databases > Document Database Service**.

Step 4 On the **Instances** page, locate the target DB instance and click **Log In** in the **Operation** column.

Figure 3-3 Logging in to DAS



Alternatively, click the target DB instance on the **Instances** page. On the displayed **Basic Information** page, click **Log In** in the upper right corner of the page.

Step 5 On the displayed login page, enter the administrator username and password and click **Log In**.

For details about how to manage databases through DAS, see [Database Management](#).

-----End

4 Logging In to and Logging Out of the DDS Console

Prerequisites

You need to have an account on the cloud platform before you can use DDS

For the first time you use DDS, apply for an account at the official website. After the application is successful, your account has permissions to access the DDS service, as well as all other cloud services.

Logging In to the DDS Console

Step 1 Open [Huawei Cloud official website](#).

Step 2 Click **Console** on the upper right of the page. The Huawei Cloud management console login page is displayed.

Step 3 Enter account information as prompted and click **Log In**.

The login is successful.

Step 4 Click  in the upper left corner and select a region and a project.

If you want compute and network resources dedicated to your exclusive use, [enable a DeC](#) and [apply for DCC resources](#). After enabling a DeC, you can select the DeC region and project.

You will be additionally charged for using DeC.

Step 5 Click  in the upper left corner of the page and choose **Databases > Document Database Service**.

----End

Logging Out of the DDS Console

Step 1 On any page of the DDS console, click the username in the upper right corner.

Step 2 In the displayed dialog box, click **Log Out**.

----End

5 Getting Started with Common Practices

After purchasing and connecting to a DB instance, you can view common practices to better use DDS.

Table 5-1 Common practices

Practice	Document	Description
Data Backups	Configuring an Automated Backup Policy	DDS backs up data automatically based on the automated backup policy you set. Regularly backing up your database is recommended. If your database becomes faulty or data is corrupted, you can restore it from backups. The automated backup policy for DDS is enabled by default.
	Creating a Manual Backup	This practice describes how to create a manual backup. Creating a backup for a DB instance helps ensure data can be restored if needed, ensuring data reliability.
Data Restorations	Restoring Data to a New Instance	DDS allows you to restore an existing automated or manual backup to a new instance. The restored data is the same as the backup data. When you restore an instance from a backup file, a full backup file is downloaded from OBS and then restored to the instance at an average speed of 40 MB/s.
	Restoring Data to the Original Instance	DDS allows you to restore an existing automated or manual backup to an original instance. The restored data is the same as the backup data. When you restore an instance from a backup file, a full backup file is downloaded from OBS and then restored to the instance at an average speed of 40 MB/s.

Practice	Document	Description
	Restoring Data to a Point in Time	DDS allows you to restore cluster and replica set instances to a point in time. When you enter the point in time that you want to restore the instance to, DDS downloads the most recent full backup file from OBS to the instance. Then, incremental backups are also restored to the specified point in time on the instance. Data is restored at an average speed of 30 MB/s.
Data Migration	Migrating Data Using mongoexport and mongoimport	mongoexport and mongoimport are backup and restoration tools provided by the MongoDB client. You can install a MongoDB client on the local device or ECS and use the mongoexport and mongoimport tools to migrate your on-premises MongoDB databases or other cloud MongoDB databases to DDS instances. Before migrating data from a MongoDB database to DDS, transfer data to a .json file using the mongoexport tool. This practice describes how to import the data from the JSON files to DDS using the mongoimport tool on the ECS or from some other devices that can access DDS.
	Migrating Data Using mongodump and mongorestore	mongodump and mongorestore are backup and restoration tools provided by the MongoDB client. You can install a MongoDB client on the local device or ECS and use the mongodump and mongorestore tools to migrate your on-premises MongoDB databases or other cloud MongoDB databases to DDS instances.
	From Other Cloud MongoDB to DDS	DRS helps you migrate MongoDB databases from other cloud platforms to DDS instances on the current cloud. With DRS, you can perform real-time migration tasks with minimal downtime. Services and databases remain operational during a migration.
	From On-Premises MongoDB to DDS	DRS helps you migrate data from on-premises MongoDB databases to DDS instances on the current cloud. With DRS, you can perform real-time migration tasks with minimal downtime. Services and databases remain operational during a migration.
	From ECS-hosted MongoDB to DDS	DRS helps you migrate data from MongoDB databases on ECSs to DDS instances on the current cloud. With DRS, you can perform real-time migration tasks with minimal downtime. Services and databases remain operational during a migration.
	From DDS to MongoDB	This practice describes how to migrate data from a DDS instance to an on-premises MongoDB database.

Practice	Document	Description
Instance Modifications	Changing an Instance Name	This practice describes how to change an instance name to identify different instances.
	Changing an Instance Class	This practice describes how to change the class of a cluster, replica set, or single node instance.
	Scaling Up Storage Space	This practice describes how to scale up the storage space of an instance. If you scale up the storage space of an instance, the backup space increases accordingly.
Data Security	Enabling or Disabling SSL	Secure Socket Layer (SSL) is an encryption-based Internet security protocol for establishing an encrypted link between a server and a client. It provides privacy, authentication, and integrity to Internet communications. SSL: • Authenticates users and servers, ensuring that data is sent to the correct clients and servers. • Encrypts data to prevent it from being intercepted during transfer. • Ensures data integrity during transmission. After SSL is enabled, you can establish an encrypted connection between your client and the instance you want to access to improve data security.
	Changing a Security Group	This practice describes how to change a security group for cluster and replica set instances.
Logs	Error Logs	DDS log management allows you to view database-level logs, including warning- and error-level logs generated during database running, which help you analyze system problems.
	Slow Query Logs	Slow query logs record statements that exceed operationProfiling.slowOpThresholdMs (500 ms by default). You can view log details and statistics to identify statements that are executing slowly and optimize the statements. You can also download slow query logs for service analysis.
	Audit Logs	An audit log records operations performed on your databases and collections. The generated log files are stored in OBS. Auditing logs can enhance your database security and help you analyze the cause of failed operations.