Solution

Getting Started with Intelligent Data Insight

Issue 1.0

Date 2025-05-14





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Solution Overview

Scenarios

This solution is built on the low-code platform Dify. It combines the inference capabilities of DeepSeek models with backend services to implement a workflow system that transforms users' natural language questions into intelligent data queries, analysis, and visualized feedback. The results are presented in a user-friendly manner, creating an automated data insight assistant for businesses. It is suitable for enterprises that require intelligent decision support in processes such as sales analysis, customer service optimization, and compliance audits. It balances cost and data security to enhance efficient business decision-making.

Solution Architecture

This solution helps you quickly deploy an intelligent data analytics platform. It transforms natural language questions into structured data queries, analytics, and visualization.

Huawei Cloud

Virtual Private Cloud

(VPC)

Security Group

Dity server

Backend server

RDS for PostgreSQL

Figure 1-1 Solution architecture

This solution will:

 Create two Huawei Cloud Flexus X Instances (FlexusX), one for deploying Dify and the other for backend services.

- Create two **EIPs** and associate them with the FlexusX instances to enable access to and from the Internet.
- Create an RDS that supports both MySQL and PostgreSQL to provide data sources for intelligent data insight.

Advantages

- Zero-code interaction and low threshold
 - Users can directly ask questions in natural language without mastering SQL, Python, or data analysis skills, lowering the usage threshold.
- Intelligent analysis
 - Large AI models automatically interpret data and provide a complete report with data overviews, detailed analyses, and visualized conclusions, replacing manual analysis and document writing.
- Ecosystem integration
 The Dify platform allows you to export and publish APIs, which can be quickly embedded into your service systems.

Notes and Constraints

- Before deploying this solution, make sure you have created a HUAWEI ID capable of accessing the target region and enabled Huawei Cloud services.
- If you choose the yearly/monthly billing mode, ensure that your account balance is sufficient for automatic payment during one-click resource deployment. If you do not have sufficient balance, you can enter the Billing Center to manually pay for the order.
- If you choose to use IAM agencies to deploy resources, ensure that your
 Huawei Cloud account has sufficient IAM permissions. For details, refer to
 (Optional) Creating the rf_admin_trust Agency. If you use a HUAWEI ID or
 an IAM user under the admin user group, you do not need to select an
 agency; the permissions of the currently logged-in user will be used for
 deployment.

Resource Planning and Costs

This solution deploys the resources listed in the following table. The costs are only estimates and may differ from the final prices. For details, see **Pricing Details**.

Table 2-1 Resource planning and costs (pay-per-use)

Huawei Cloud Service	Example Configuration	Quantity	Estimated Monthly Cost
Huawei Cloud Flexus X Instance	 Pay-per-use: \$0.30 USD/hour Region: CN-Hong Kong Specifications: FlexusX Performance mode (disabled) x1.8u.16g 8 vCPUs 16 GB Image: Ubuntu 22.04 server 64bit System disk: high I/O 100 GB 	1	\$216.38 USD
Huawei Cloud Flexus X Instance	 Pay-per-use: \$0.08 USD/hour Region: CN-Hong Kong Specifications: FlexusX Performance mode (disabled) x1.2u.4g 2 vCPUs 4 GB Image: Ubuntu 22.04 server 64bit System disk: high I/O 40 GB 	1	\$54.93 USD

Huawei Cloud Service	Example Configuration	Quantity	Estimated Monthly Cost
RDS for PostgreSQL	Pay-per-use: \$0.11 USD/hour	1	\$76.32 USD
	Region: CN-Hong Kong		
	Billing mode: pay-per- use		
	 Specifications: rds.pg.n1.large.2 (2 vCPUs 4 GB) 		
	• Storage: SSD 40 GB		
	DB engine: version 12		
Elastic IP (EIP)	 Region: CN-Hong Kong Billing mode: pay-peruse \$0.16 USD/GB/hour 	2	\$0.32 USD/GB/hour
	Routing type: dynamic BGP		
	Billed by: traffic		
	Bandwidth: 300 Mbit/s		
Total	-	-	\$347.63 USD + EIP fee

Table 2-2 Resource planning and costs (yearly/monthly)

Huawei Cloud Service	Example Configuration	Quantity	Estimated Monthly Cost
Huawei Cloud Flexus X Instance	 Yearly/Monthly Region: CN-Hong Kong Specifications: FlexusX Performance mode (disabled) x1.8u.16g 8 vCPUs 16 GB Image: Ubuntu 22.04 server 64bit System disk: high I/O 100 GB 	1	\$159.54 USD

Huawei Cloud Service	Example Configuration	Quantity	Estimated Monthly Cost
Huawei Cloud Flexus X Instance	 Yearly/Monthly Region: CN-Hong Kong Specifications: FlexusX Performance mode (disabled) x1.2u.4g 	1	\$40.72 USD
RDS for PostgreSQL	 Yearly/Monthly Region: CN-Hong Kong Billing mode: pay-peruse Specifications: rds.pg.n1.large.2 (2 vCPUs 4 GB) Storage: SSD 40 GB DB engine: version 12 	1	\$50.56 USD
Elastic IP (EIP)	 Region: CN-Hong Kong Billing mode: pay-peruse \$0.16 USD/GB/hour Routing type: dynamic BGP Billed by: traffic Bandwidth: 300 Mbit/s 	2	\$0.32 USD/GB/ hour
Total	-	-	\$250.82 USD + EIP fee

3 Implementation Procedure

- 3.1 Preparations
- 3.2 Rapid Deployment
- 3.3 Getting Started
- 3.4 Quick Uninstallation

3.1 Preparations

If you use the HUAWEI ID created when you first used Huawei Cloud, skip these preparations. If you use an IAM user account, check if you are in the **admin** user group. If not, **grant relevant permissions** to your account and complete the following preparations.

(Optional) Creating the rf_admin_trust Agency

Step 1 Visit the Huawei Cloud official website, log in to the **console**, hover over the account name, and choose **Identity and Access Management**.

Figure 3-1 Huawei Cloud console



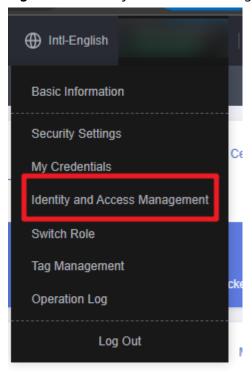


Figure 3-2 Identity and Access Management

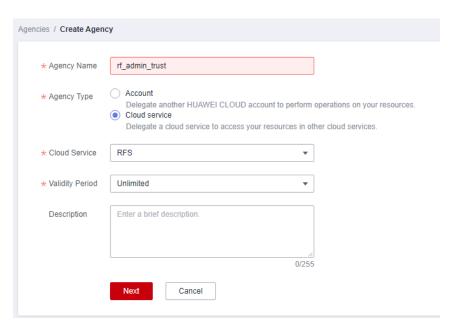
Step 2 In the navigation pane on the left, choose **Agencies**. On the displayed page, search for the **rf_admin_trust** agency.

Figure 3-3 Agencies



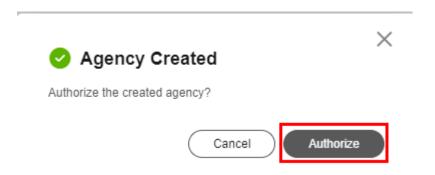
- If the agency is found, skip the following steps.
- If the agency is not found, perform the following steps.
- Step 3 Click Create Agency in the upper right corner of the page. On the displayed page, set Agency Name to rf_admin_trust, Agency Type to Cloud service, and Cloud Service to RFS, and click Next.

Figure 3-4 Creating an agency



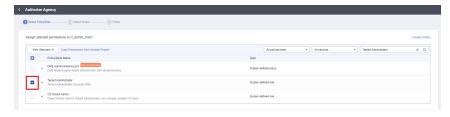
Step 4 Click Authorize.

Figure 3-5 Authorizing an agency



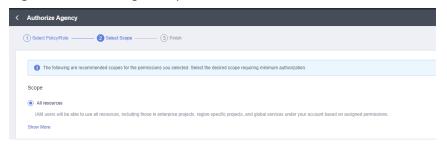
Step 5 Search for **Tenant Administrator**, select it in the search results, and click **Next**.

Figure 3-6 Selecting a policy



Step 6 Select All resources for Scope and click OK.

Figure 3-7 Selecting a scope



Step 7 Check that the **rf_admin_trust** agency is displayed in the agency list.

Figure 3-8 Agencies



----End

3.2 Rapid Deployment

This section describes how to efficiently deploy the Getting Started with Intelligent Data Insight solution. You can complete quick deployment by following the steps and instructions in this section.

Table 3-1 Parameter descriptions (single-cloud server deployment)

Parameter	Туре	Mandatory	Description	Default Value
vpc_name	String	Mandatory	The Virtual Private Cloud (VPC) name. This template uses a newly created VPC. The name must be unique. It can contain up to 57 characters. Only letters, numbers, underscores (_), hyphens (-), and periods (.) are allowed.	intelligent- data- insight_demo

Parameter	Туре	Mandatory	Description	Default Value
secgroup_na me	String	Mandatory	The security group name. This template uses a newly created security group. For details, see Modifying Security Group Rules. It can contain up to 64 characters. Only letters, numbers, underscores (_), hyphens (-), and periods (.) are allowed.	intelligent- data- insight_demo
rds_name	String	Mandatory	The RDS instance name. It must be unique and contain 4 to 64 characters. It must start with a letter and only letters (casesensitive), numbers, hyphens (-), and underscores (_) are allowed.	intelligent- data- insight_demo
db_type	String	Mandatory	The RDS engine. Options: MySQL and PostgreSQL.	PostgreSQL

Parameter	Туре	Mandatory	Description	Default Value
rds_flavor	String	Mandatory	The flavor of RDS instances. Single-node RDS instances are created by default. Default flavor of RDS for MySQL instances: rds.mysql.n1.l arge.2 (2U4G); default flavor of RDS for PostgreSQL instances: rds.pg.n1.larg e.2 (2U4G). For details about other flavors, see: RDS for MySQL Instance Classes RDS for PostgreSQL Instance Classes	rds.pg.n1.larg e.2

Parameter	Туре	Mandatory	Description	Default Value
rds_port	number	Mandatory	The RDS port. RDS for MySQL instances can use database ports 1024 to 65535, excluding 12017 and 33071, which are reserved for RDS system use. Default value: 3306. RDS for PostgreSQL instances can use database ports 2100 to 9500. Default value: 5432.	5432
rds_volume_si ze	number	Mandatory	The storage space of an RDS instance. The default storage disk type is SSD. The value ranges from 40 to 4000 and must be a multiple of 10.	40

Parameter	Туре	Mandatory	Description	Default Value
rds_password	String	Mandatory	The initial password used for logging in to the RDS database. It must contain 8 to 32 characters and only letters, numbers, and the following special characters are allowed: ~! @#%^*=+?	Empty
db_account_n ame	String	Mandatory	A user- defined RDS read-only username. It must be unique and contain 4 to 64 characters. It must start with a letter and only letters (case- sensitive), numbers, hyphens (-), and underscores (_) are allowed.	readonly_user

Parameter	Туре	Mandatory	Description	Default Value
db_account_p assword	String	Mandatory	The login password for a user-defined RDS read-only username. It must contain 8 to 32 characters and at least three of the following types of characters: uppercase letters, lowercase letters, numbers, and the following special characters: ~! @#%^*=+?,	Empty

Parameter	Туре	Mandatory	Description	Default Value
db_name	String	Mandatory	The database name. It can contain up to 63 characters. Only letters, numbers, and underscores (_) are allowed. It cannot start with pg or a number and must be different from RDS for PostgreSQL template database names. RDS for PostgreSQL template databases include postgres, template0, and template1.	business_db
dify_version	String	Mandatory	The Dify community edition, supporting v1.1.3, v0.15.3, and v0.15.2.	0.15.3

Parameter	Туре	Mandatory	Description	Default Value
dify_ecs_nam e	String	Mandatory	The name of a Dify cloud server. It must be unique and contain up to 54 characters. Only letters, numbers, underscores (_), hyphens (-), and periods (.) are allowed.	intelligent- data- insight_dify_e cs_demo
dify_ecs_flavo	String	Mandatory	The flavor of Elastic Cloud Server (ECS) or FlexusX. The flavor ID format of a FlexusX is x1.?u.?g. For example, the flavor ID of a FlexusX with 2 vCPUs and 4 GiB memory is x1.2u.4g. For details about FlexusX flavors, refer to the console. For details about ECS flavors, see A Summary List of x86 ECS Specification s.	x1.8u.16g

Parameter	Туре	Mandatory	Description	Default Value
dify_password	String	Mandatory	The password of the Dify cloud server. The password must contain 8 to 26 characters and include at least three of the following types of characters: uppercase letters, lowercase letters, numbers, and special characters (! @\$%^=+ [{}]:,/?). For details about how to change the password, see Resetting the Password for Logging In to an ECS on the Management Console. Default administrator account: root.	Empty
dify_system_d isk_size	number	Mandatory	The system disk size of a Dify cloud server, in GB. The default disk type is high I/O. Value range: 40–1024. The disk cannot be shrunk.	100

Parameter	Туре	Mandatory	Description	Default Value
dify_eip_size	number	Mandatory	The EIP bandwidth of a Dify cloud server, in Mbit/s. EIPs are billed by traffic. Value range: 1–300.	300
db_query_ecs_ name	String	Mandatory	The name of the database interface cloud server. It must be unique and contain up to 54 characters. Only letters, numbers, underscores (_), hyphens (-), and periods (.) are allowed.	intelligent- data- insight_db_qu ery_demo

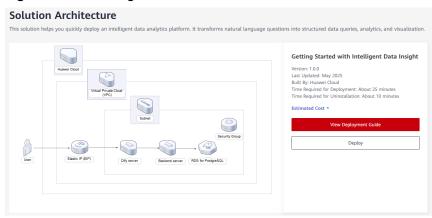
Parameter	Туре	Mandatory	Description	Default Value
db_query_ecs_f lavor_id	String	Mandatory	The flavor of ECS or FlexusX. The flavor ID format of a FlexusX is x1.?u.?g. For example, the flavor ID of a FlexusX with 2 vCPUs and 4 GiB memory is x1.2u.4g. For details about FlexusX flavors, refer to the console. For details about ECS flavors, see A Summary List of x86 ECS Specification s.	x1.2u.4g

Parameter	Туре	Mandatory	Description	Default Value
db_query_pas sword	number	Mandatory	The password of the database interface cloud server. The password must contain 8 to 26 characters and at least the following types of characters: letters, numbers, and special characters. The following special characters are allowed: !@\$ %^=+ [{}]:,./?. For details about how to change the password, see Resetting the Password for Logging In to an ECS on the Management Console. Default administrator account: root.	Empty
db_query_eip_ size	number	Mandatory	The EIP bandwidth of the database interface cloud server, in Mbit/s. EIPs are billed by traffic. Value range: 1–300.	300

Parameter	Туре	Mandatory	Description	Default Value
charging_mod e	String	Mandatory	The billing mode. Options: postPaid (pay-per-use) and prePaid (yearly/ monthly). Default value: postPaid.	postPaid
charge_period _unit	String	Mandatory	The unit of the subscription term. This parameter is only mandatory when charging_mo de is set to prePaid (yearly/monthly). Options: month and year.	month
charge_period	number	Mandatory	The subscription term. This parameter is only mandatory when charging_mo de is set to prePaid (yearly/monthly). Value range: 1–3 (charging_un it set to year); 1–9 (charging_un it set to month).	1

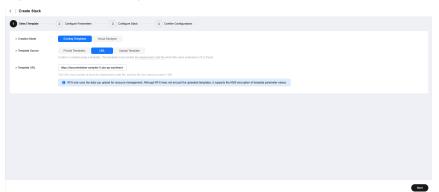
Step 1 Log in to Huawei Cloud Solution Best Practices, choose Getting Started with Intelligent Data Insight, and click Deploy. The Create Stack page is displayed.

Figure 3-9 Selecting a solution



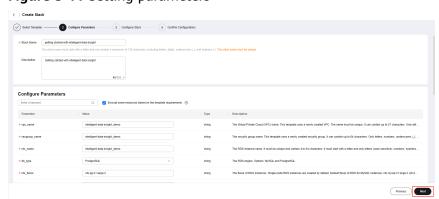
Step 2 On the **Select Template** page, click **Next**.

Figure 3-10 Selecting a template



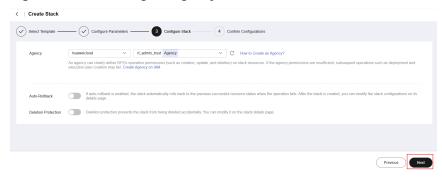
Step 3 On the **Configure Parameters** page, set parameters according to **Table 3-1** and click **Next**.

Figure 3-11 Setting parameters



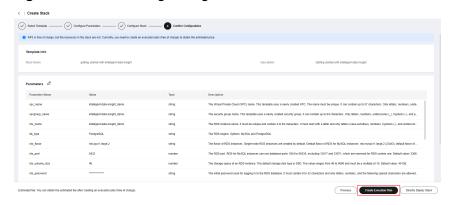
Step 4 On the **Configure Stack** page, select **rf_admin_trust** from the **Agency** drop-down list and click **Next**. This step is optional if you use a master account (HUAWEI ID) or use an IAM user in the **admin** user group.

Figure 3-12 Selecting an agency



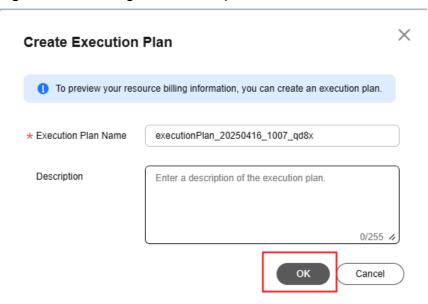
Step 5 On the **Confirm Configurations** page, click **Create Execution Plan**.

Figure 3-13 Confirming configurations



Step 6 In the **Create Execution Plan** dialog box that appears, enter an execution plan name and click **OK**.

Figure 3-14 Creating an execution plan



Step 7 Click **Deploy** in the **Operation** column. In the displayed dialog box, click **Execute**.

Figure 3-15 Execution plan created

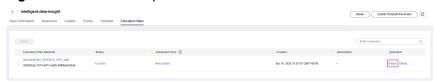
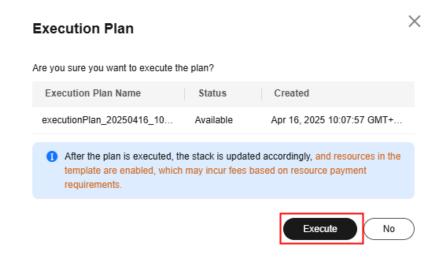


Figure 3-16 Deploying the execution plan



- Step 8 (Optional) If you select the yearly/monthly billing mode and your account balance is insufficient, log in to the Billing Center to manually pay for the pending order. Refer to the corresponding table in 2 Resource Planning and Costs for the total cost of one-click cloud service deployment under the yearly/monthly billing mode.
- **Step 9** Click the **Events** tab and check whether the message "Apply required resource success." is displayed in the **Description** column. If it is, the solution is successfully deployed.

Figure 3-17 Solution deployed



Step 10 Refresh the page, click the Outputs tab, and view the access links (Dify platform access link and backend database query link) and link for importing the Dify workflow DSL file in the Value column. After the stack is successfully deployed, wait approximately 5 to 10 minutes (affected by network fluctuations) before you can log in to Dify.

Figure 3-18 Descriptions



----End

3.3 Getting Started

(Optional) Modifying Security Group Rules

NOTICE

- This solution uses port 80 to access Dify. By default, all traffic is allowed. Refer to **Modifying Security Group Rules** to configure the IP address whitelist.
- This solution uses port 22 to remotely log in to the cloud server over SSH. If
 you need to remotely log in to the cloud server, configure an IP address
 whitelist by referring to Modifying Security Group Rules so you can access the
 service properly.
- After the solution is successfully deployed, it takes approximately 5 minutes to initialize the environment. The deployment duration varies depending on the network and bandwidth. You can access the environment only after the deployment is complete.

A security group is a collection of access control rules for traffic to and from cloud resources, such as cloud servers, containers, and databases. Cloud resources associated with the same security group have the same security requirements and are mutually trusted within a VPC.

You can modify security group rules, for example, by adding, modifying, or deleting a TCP port, as follows:

- Adding a security group rule: Add an inbound rule and enable a TCP port if needed.
- Modifying a security group rule: Inappropriate security group settings may introduce serious security risks. You can modify security group rules to ensure the network security of instances like ECSs.
- Deleting a security group rule: If the source or destination IP address of an inbound or outbound security group rule changes, or a port needs to be disabled, you can delete the security group rule.

Logging In to the Dify Platform

Step 1 Log in to the Dify platform: Enter the access address provided in **step 10 of the quick deployment process** to access Dify. Create an administrator account when you first log in by entering the email address, username, and password.

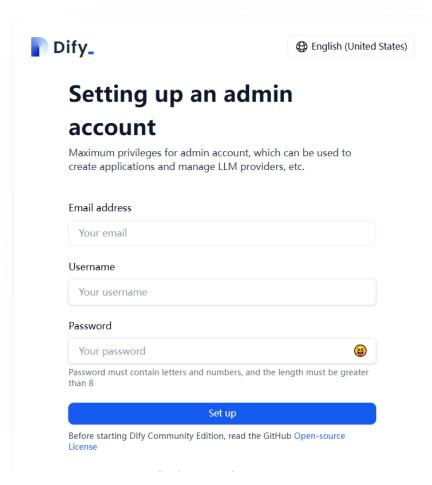


Figure 3-19 Creating an administrator account

Step 2 Open your browser, access the Dify platform page, and enter the email address and password you configured in step 1 to log in to the Dify platform.

Figure 3-20 Logging in to the Dify platform

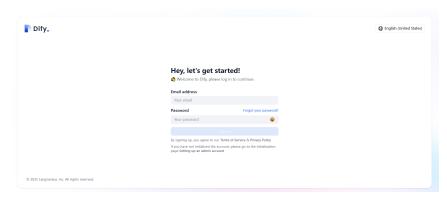
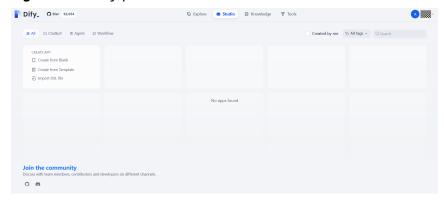


Figure 3-21 Dify platform



----End

Interconnecting with DeepSeek Models

Refer to "Interconnecting with DeepSeek Models" in Getting Started.

Creating an Intelligent Data Insight Workflow

Step 1 Log in to the Dify platform and click **Create from Blank** under **CREATE APP**. On the displayed page, click **Chatflow**, set **App Name & Icon**, and click **Create** in the lower part.

Figure 3-22 Clicking Create from Blank

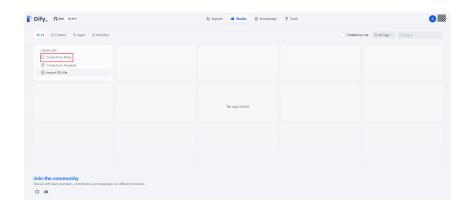
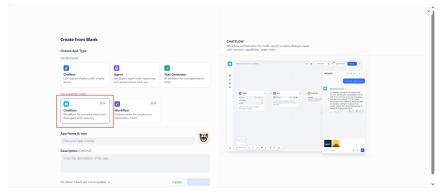


Figure 3-23 Creating a chat workflow



Step 2 Configure an LLM node: Select the connected model, set the context, and enter prompts in **SYSTEM**. You are advised to attach the database table structure and example SQL statements.

Figure 3-24 Configuring an LLM node

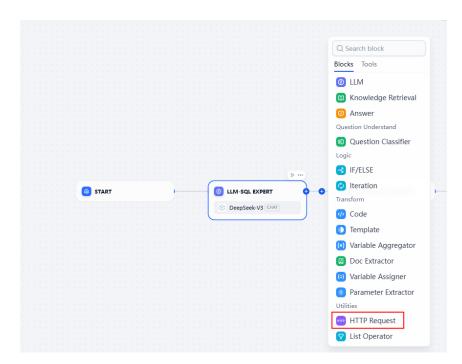


----End

Connecting Dify to a Database

Step 1 Create an HTTP request node and enter the API address exposed by the database server provided in **step 10 of the quick deployment process**.

Figure 3-25 Creating an HTTP request node



Step 2 Enter the API information of the database server: In API, select POST and enter the API address exposed by the database server; in HEADERS, set Key to Content-Type and Value to application/json; in BODY, select JSON and enter JSON information as shown in Figure 11.

Authorizand 216546 Published 7 days app

SQL Query

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Figure 3-26 Configuring the HTTP request node

----End

Importing Data into the Database and Testing the Connectivity

Step 1 Log in to the **RDS console**. In the navigation pane on the left, choose **Instances**. On the displayed page, select the RDS for PostgreSQL instance created during one-click deployment and click **Log In** in its **Operation** column.

Figure 3-27 RDS console

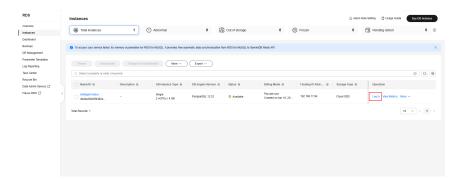
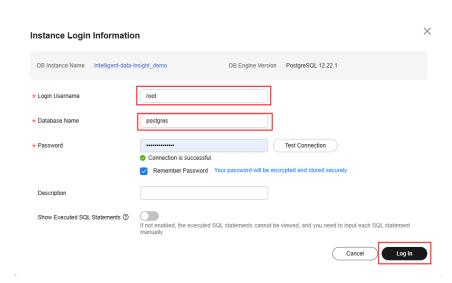


Figure 3-28 Logging in to the RDS for PostgreSQL instance as user root



Step 2 If PostgreSQL is selected, grant the read-only permission to user **readonly_user**. If MySQL is selected, skip this step.

Figure 3-29 Setting the default transaction of user readonly_user to read-only

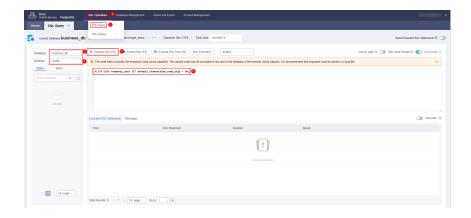


Figure 3-30 Checking whether root permissions have been optimized; if the following SQL statements do not report errors, optimization has been successful

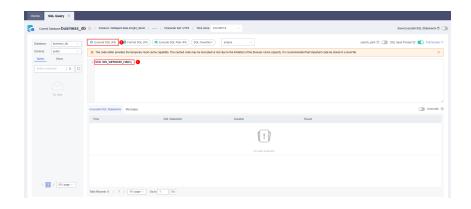
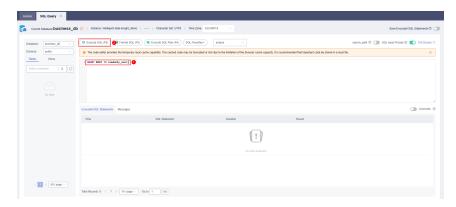


Figure 3-31 Performing this operation



Step 3 Import the prepared SQL file into the preset database business_db. On the top menu, click Import and Export and select Import. On the displayed page, click Create Task. In the dialog box that appears, select an existing SQL file or a SQL file in an OBS bucket and click Create. (Note: You can also use DRS to transfer data to the database.)

Figure 3-32 Clicking Import and Export and selecting Import



Figure 3-33 Importing the SQL file

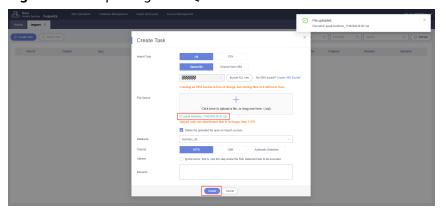


Figure 3-34 Data imported



Step 4 Test the database connection on the HTTP request node of the Dify workflow. Click the button for testing the HTTP request node.

Figure 3-35 Clicking the button for testing the HTTP request node

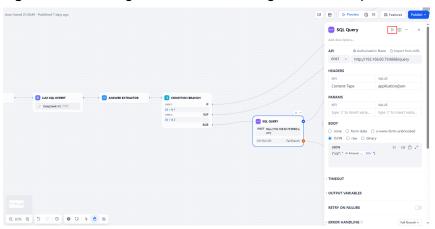
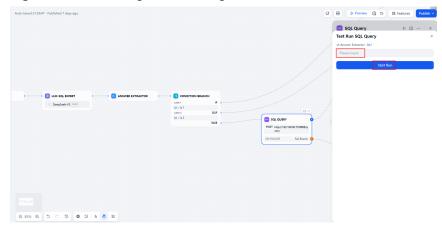


Figure 3-36 Entering and running test SQL statements



Step 5 Create a data analytics LLM node, configure the reply node content, and complete the setup of the entire intelligent data insight workflow.

Figure 3-37 Creating an LLM node



Direct reply 5

ANSWER

O Direct reply 5

What is a found. Can you describe the problem in detail? For example, what are the drugs that are 25 years old.

NEXT STEP

Add the next block in this workflow

O DIRECT REPLY

ANSWER

O DIRECT REPLY

ANS

Figure 3-38 Configuring the reply node by selecting the output result of the data analytics LLM node

Step 6 Publish the workflow to launch the intelligent data insight dialog page.



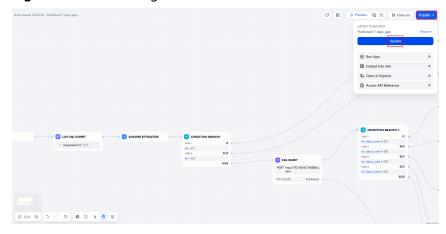
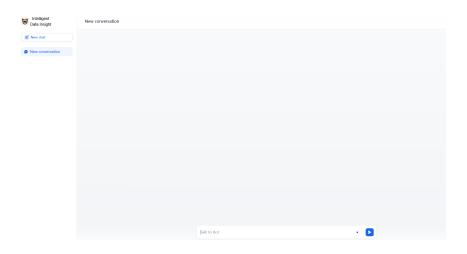


Figure 3-40 Gaining intelligent data insights

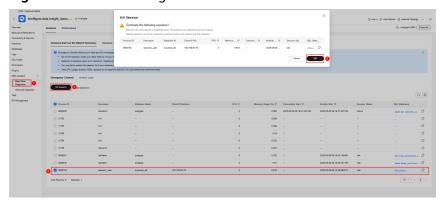


----End

3.4 Quick Uninstallation

- **Step 1** Before deleting a stack, ensure that the database access service has been stopped. If there are database connections, disconnect the sessions first before attempting to delete the stack. For details about how to terminate the database sessions, refer to steps 2 and 3.
- **Step 2** Log in to the **RDS console**. In the navigation pane on the left, choose **Instances**. On the displayed page, click the name of the database instance.
- Step 3 In the navigation pane on the left, choose DBA Assistant > Real-Time Diagnosis. On the displayed page, all real-time sessions of the current database are displayed. Select all sessions with the database name business_db and the username readonly_user. Click Kill Session. In the Kill Session dialog box that appears, click OK to terminate the sessions.

Figure 3-41 Terminating sessions



Step 4 Log in to the **Stacks page of the RFS console**, find the resource stack created for the solution, and click **Delete** in its **Operation** column.

Figure 3-42 Deleting the stack



Step 5 In the **Delete Stack** dialog box that appears, set **When Deleted** to **Delete resource**, enter **Delete** in the box, and click **OK**.

Cancel

X **Delete Stack** Are you sure you want to delete the stack and resources in the stack? Cannot be restored after being deleted. Exercise caution when performing this operation. Stack Name Status Created intelligent-data-insight Deployment .. Apr 16, 2025 10:07:56 GMT+08:00 Resources (16) Cloud Product ... Physical Resource Name/ID **Resource Status** intelligent-data-insight_db_query_demo Elastic Cloud Server Creation Compl... d9f9f620-01b0-48d2-ab82-c735441ed498 intelligent-data-insight_dify_ecs_demo Flastic Cloud S Creation Compl... 97fdd296-b843-49cb-b4c4-1c5fba1f9e15 intelligent-data-insight_demo Virtual Private ... Creation Compl... a1c02002-f781-4ff6-abaf-9361ba87d0be Virtual Private ... f51d6c25-223b-4834-9993-1b31df6dfd3c Creation Compl... Virtual Private ... ee6bca6d-89ae-40ad-ae68-92a1ee0150cf Creation Compl... Virtual Drivato 1E040222 020f 4E04 0244 E7fb41c700c1 Creation Compl When Deleted

Delete resource Retain resource (Delete only the stack) Type Delete in the box below to continue. Delete

Figure 3-43 Confirming the deletion

----End

4 Appendix

Terms

- Huawei Cloud Flexus X Instance: It is a next-gen flexible cloud server service tailored for small and medium-sized enterprises (SMEs) and developers. It offers similar functions to ECS but with added features like flexible vCPU memory ratios, live specification changes, and performance mode support.
- Virtual Private Cloud (VPC): An isolated and private virtual network environment that users can apply for on Huawei Cloud. VPC, along with cloud services like Elastic Public IP (EIP), Cloud Connect, and Direct Connect, enables your cloud resources to securely communicate with each other over the Internet and on-premises networks.
- Elastic IP (EIP): enables your cloud resources to communicate with the
 Internet using static public IP addresses and scalable bandwidths. EIPs can be
 bound to or unbound from ECSs, Bare Metal Servers (BMSs), virtual IP
 addresses, load balancers, and NAT gateways, to access to or be accessed
 from the public network.

5 Change History

Table 5-1 Change history

Released On	Change Description
2025-05-14	This issue is the first official release.