Resource Access Manager

Best Practices

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1 Enabling Network Connectivity Across Multiple Accounts by Sharing an Enterprise Router Using RAM

Scenario

Enterprises commonly use multiple accounts to isolate different cloud-based workloads and functions. However, workloads deployed across different accounts need to communicate with each other to support business collaboration. Traditionally, VPC peering connections must be established between VPCs in different accounts. Over time, this approach can result in a complex network that is difficult to manage.

This section describes how to enable network connectivity across multiple accounts by sharing an enterprise router (ER) instance using the resource sharing capabilities of RAM. In this example, Company A's organization contains a network management account, business account A, and business account B.

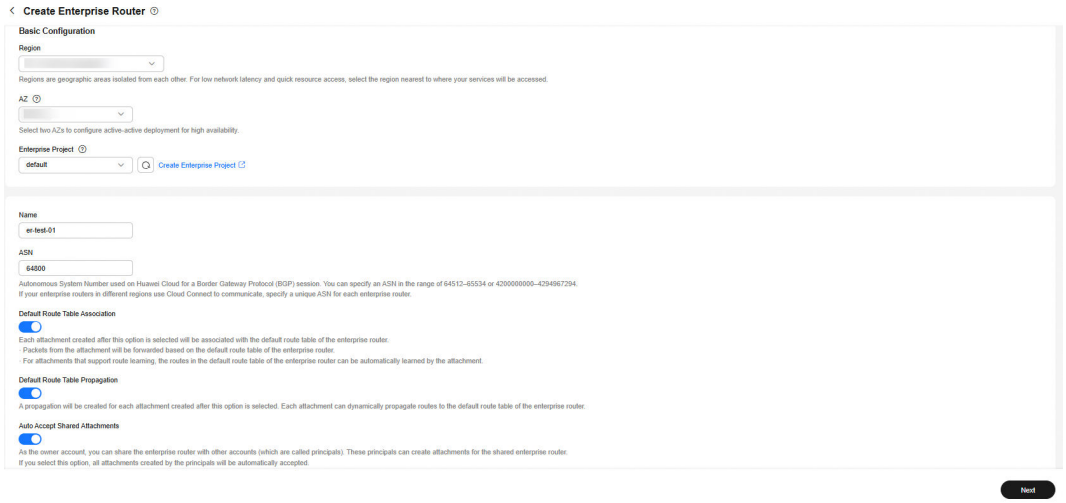
Creating an Enterprise Router

Step 1 Log in to the management console and navigate to the **Enterprise Routers** list page.

Step 2 Click **Create Enterprise Router** in the upper right corner of the page.

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Figure 1-1 Creating an enterprise router



Step 3 Configure the basic information as prompted on the page, and select the **Auto Accept Shared Attachments** option to accept shared connections. For details about the parameters, see **Creating an Enterprise Router**.

Step 4 Click **Next**.

Step 5 On the configuration confirmation page, verify the enterprise router information. If the information is correct, click **Submit** to return to the **Enterprise Routers** page.

Step 6 On the **Enterprise Routers** page, check the enterprise router status. When the status changes from **Creating** to **Normal**, the enterprise router has been created successfully.

----End

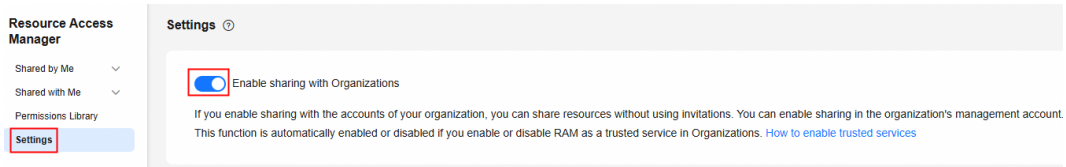
Sharing an Enterprise Router

Step 1 Log in to the **RAM console**.

Step 2 In the navigation pane, choose **Settings** and toggle on **Enable sharing with Organizations**.

Step 3 When the **Enable sharing with Organizations** toggle is blue, the function is enabled.

Figure 1-2 Enabling sharing with organizations

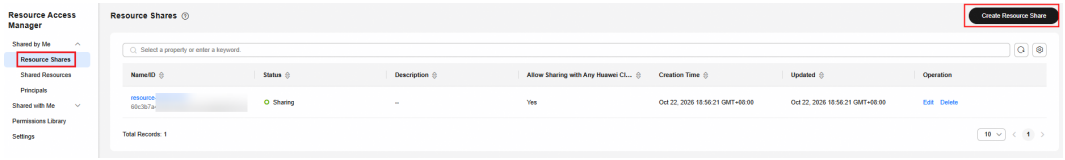


Step 4 Choose **Shared by Me** > **Resource Shares**.

Step 5 Click **Create Resource Share** in the upper right corner.

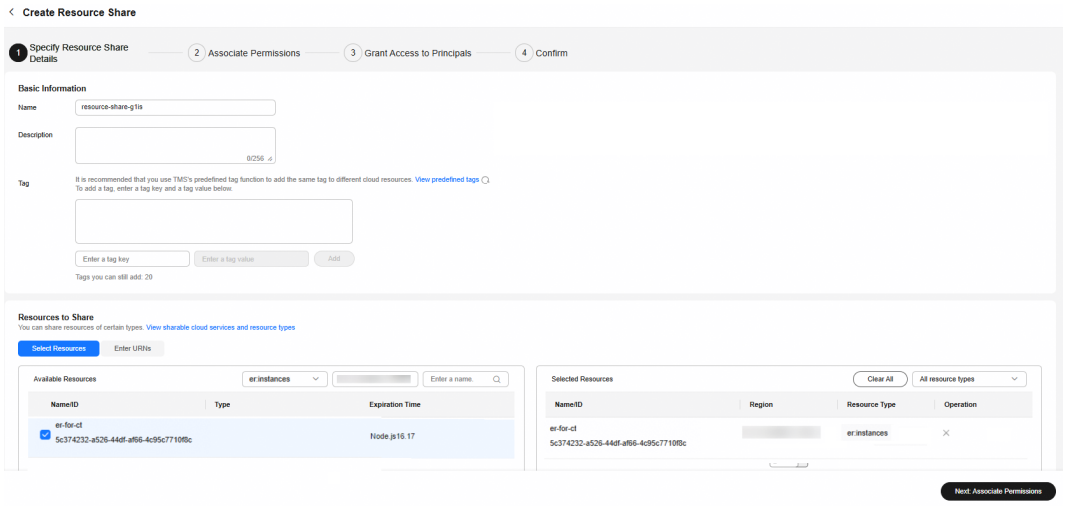
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Figure 1-3 Creating a share



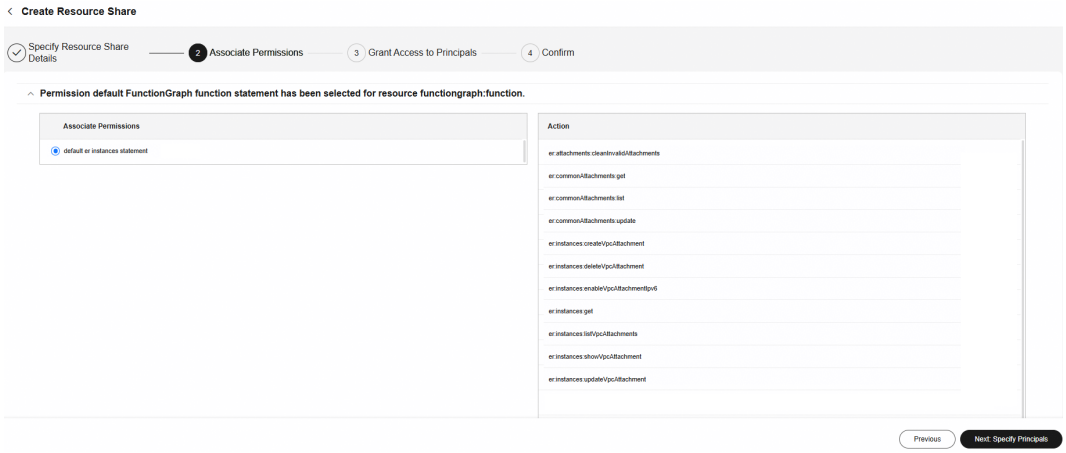
Step 6 On the displayed **Specify Resource Share Details** page, configure basic information and specify the ER to share, and then click **Next: Associate Permissions** in the lower right corner.

Figure 1-4 Specifying resources to share



Step 7 On the **Associate Permissions** page, select the shared permissions supported by the specified resource type. Then, click **Next: Specify Principals** in the lower right corner.

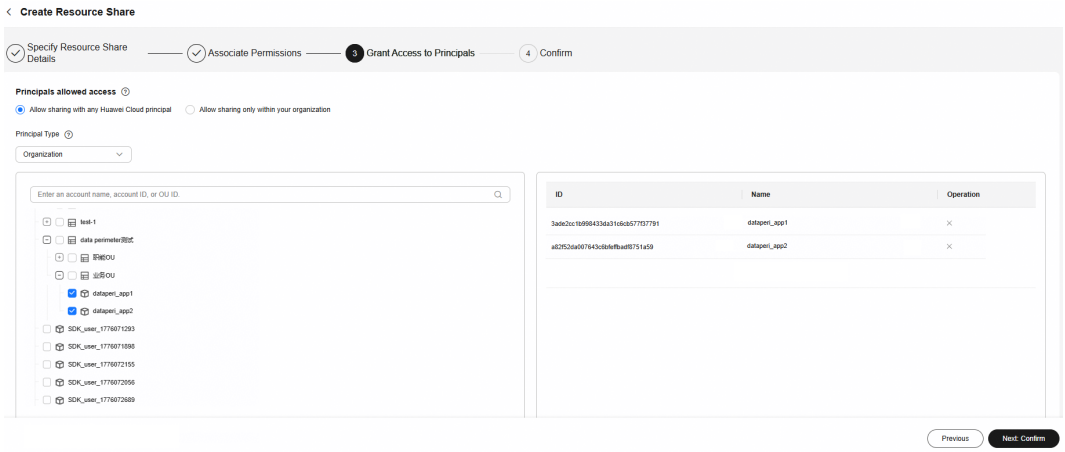
Figure 1-5 Associating permissions



Step 8 On the **Grant Access to Principals** page, specify business account A and business account B as the principals that can use the shared resource. After completing the configuration, click **Next: Confirm** in the lower right corner.

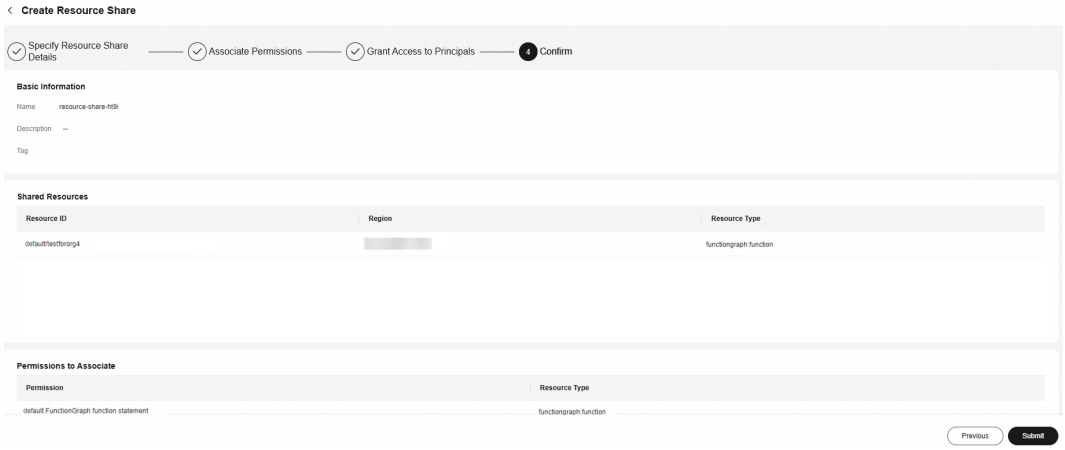
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Figure 1-6 Specifying principals to grant access



Step 9 Check the configuration and click **OK** in the lower right corner.

Figure 1-7 Confirming configurations



----End

Attaching a VPC in Business Account A to the Enterprise Router

Step 1 Log in to the management console using business account A and go to the **Enterprise Routers** page.

Step 2 Locate the shared enterprise router.

Step 3 Click **Manage Attachment** in the upper right corner of the enterprise router pane to open its **Attachments** tab.

Step 4 Click **Add Attachment**. The **Add Attachment** page is displayed.

Step 5 Configure the basic information for the VPC attachment as prompted on the page. For details about the parameters, see **Adding a VPC Attachment to an Enterprise Router**.

Step 6 After configuring the basic information, click **Create Now** to return to the attachment list.

Step 7 Check the attachment status in the list. When the status changes from **Creating** to **Normal**, the attachment has been created successfully.

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Step 8 Navigate to the VPC list, select the target VPC, and configure its routes to enable network connectivity between the business accounts. For details about adding routes, see **Creating a Custom Route Table**.

----End

Attaching a VPC in Business Account B to the Enterprise Router

Step 1 Log in to the management console using business account B and go to the **Enterprise Routers** page.

Step 2 Locate the shared enterprise router.

Step 3 Click **Manage Attachment** in the upper right corner of the enterprise router pane to open its **Attachments** tab.

Step 4 Click **Add Attachment**. The **Add Attachment** page is displayed.

Step 5 Configure the basic information for the VPC attachment as prompted on the page. For details about the parameters, see **Adding a VPC Attachment to an Enterprise Router**.

Step 6 After configuring the basic information, click **Create Now** to return to the attachment list.

Step 7 Check the attachment status in the list. When the status changes from **Creating** to **Normal**, the attachment has been created successfully.

Step 8 Navigate to the VPC list, select the target VPC, and configure its routes to enable network connectivity between the business accounts. For details about adding routes, see **Creating a Custom Route Table**.

----End

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