#### **Enterprise Project Management Service**

#### **User Guide**

Issue 02

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### **1** What Is Enterprise Management?

#### Overview

Enterprise Project Management Service (EPS) provides a cloud governance platform that allows an enterprise to manage personnel, resources, and authorization based on their organizational structure and service management requirements.

#### **Supported Services**

You can go to EPS console to check services and resources supported by EPS.

On the **Enterprise Project Management Service** page of EPS console, you can click **View Resource** in the **Operation** column of any projects to view services and resources supported by EPS.

# 2 Applicable Scenarios

You can create projects based on your organizational structure to centrally manage your resources across regions. You can authorize different user groups to different projects to control resource access. This section describes typical application scenarios of enterprise projects.

#### **Project-based Scenario**

You can manage multiple projects in an enterprise, separately settle their costs, and assign them to different personnel. A project can be started or stopped independently without affecting others. You can easily manage your projects after creating an enterprise project for each of them.

For example, a game company launches multiple games, such as A, B, and C. The cost of each game is calculated separately. Some games are popular and continue to operate. Others receive poor customer response and are discontinued. In this case, the game company can apply for an account and enable the enterprise project function. It can create an enterprise project for each game and set different user groups for these enterprise projects to manage resources. Figure 2-1 shows the organization structure of the game company, and Figure 2-2 shows the solution diagram.

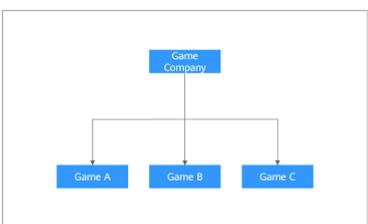


Figure 2-1 Organizational structure

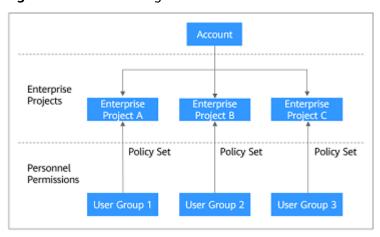


Figure 2-2 Solution diagram

#### Scenarios Classified by Organizational Structure and Business

Enterprises can create enterprise projects and member accounts based on the organizational structure. The resources and networks of the member accounts are isolated from each other.

For example, an Internet enterprise needs to deploy the development environment and production environment during software development. The former is used for Alpha, Beta, and Gamma tests, and the latter is used to calculate costs based on programs (such as app program, mall program, and collaborative office program). The enterprise also requires that the two environments be isolated from each other to prevent the development tests from affecting the cost accounting in the production environment. In this case, the Internet enterprise can apply for an account and enable the Enterprise Center. Create member account 1 for the development environment and member account 2 for the production environment and associate them with the enterprise master account. Enable the enterprise project function and create enterprise projects A, B, and C for Alpha, Beta, and Gamma development environments, and then create enterprise projects D, E, and F for the app program, mall program and collaborative office program in the production environment. Set a user group for each enterprise project to manage resources. Figure 2-3 shows the organizational structure of the IT enterprise, and Figure 2-4 shows the solution diagram.

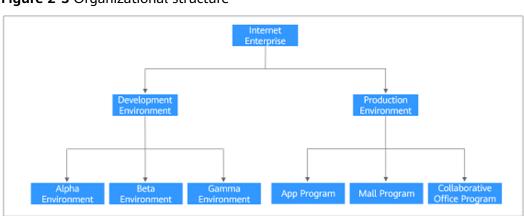


Figure 2-3 Organizational structure

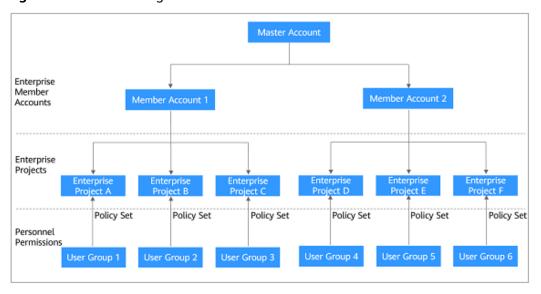


Figure 2-4 Solution diagram

## 3 Supported Cloud Services

You can go to EPS console to check services and resources supported by EPS.

On the **Enterprise Project Management Service** page of EPS console, you can click **View Resource** in the **Operation** column of any projects to view services and resources supported by EPS.

### 4 Notes and Constraints

This section describes the constraints on using Enterprise Project Management Service (EPS).

- You can enable Enterprise Project for only enterprise accounts.
- You can create up to 100 enterprise projects for an enterprise account. If you need to increase the quota, create a service ticket to apply for higher quota. The quota can be increased to a maximum amount of 256.
- Disabled enterprise projects cannot be modified.
- Disabled enterprise projects are still counted towards your enterprise project quota. If your enterprise project quota is insufficient, you can contact O&M personnel to delete enterprise projects.
- Disabled enterprise projects will not be displayed in the drop-down list of **Enterprise Project** on the page where you buy a cloud resource. You cannot add resources or user groups to a disabled enterprise project. You can enable disabled enterprise projects as needed.
- If an enterprise project contains any resources that are included in an unfinished order, the project cannot be disabled. Unfinished orders refer to the orders in the following states: pending payment, processing, pending review, and pending approval.
- Default enterprise projects cannot be modified or disabled.
- Test enterprise projects cannot be disabled.
- Currently, commercial projects cannot be converted to test projects.
- Currently, resources can only be transferred between commercial projects or test projects.
- Default enterprise projects are commercial projects by default. You cannot transfer resources between a test project and a default project.
- Only enterprise master accounts or IAM users with administrator permissions can view resource transfer events.
- A project name can contain up to 255 characters and can only be composed
  of letters, digits, underscores (\_), and hyphens (-). Any form of "default" must
  be avoided in the project name. A project description can contain up to 512
  characters.
- You can add up to 10 tags to each resource.

# **5** Permissions

#### **5.1 Enterprise Project Permissions**

**Administrator**: The administrator can perform any operations on the **Enterprise Project Management Service** page.

**IAM user**: An IAM user's permissions are granted by the administrator. The enterprise project information displayed on the **Enterprise Project Management Service** page varies for each IAM user based on the permissions assigned. Each IAM user can only access resources that they are allowed to If the administrator can use default and custom policies to assign permissions.

The administrator can grant permissions specified in the default policies or custom policies to users. Policies related to enterprise projects include EPS FullAccess and EPS ReadOnlyAccess. You can configure enterprise project permissions for users in IAM. For details, see the Identity and Access Management User Guide.

The permissions set in IAM are different from those set in Enterprise Management. Administrator is advised to select either IAM or Enterprise Management to manage permissions based on enterprise requirements.

**Table 5-1** Enterprise Management permissions

Servic e Name	Permiss ion Name	Permission Description	Typically Associated Personnel
Enterpr ise Manag ement	EPS FullAcce ss	<ul> <li>Administrator permissions for Enterprise Management, including enterprise project and personnel management. For example, creating organizations, migrating resources, adding/removing user groups, and attaching policies to user groups. These permissions can be assigned by the administrator in the Global region on the IAM console.</li> </ul>	Enterprise asset administrators
		<ul> <li>Administrator permissions for a specific enterprise project, including modifying, enabling, disabling, and viewing the enterprise project. The administrator and users granted the EPS FullAccess policy in IAM can set the EPS FullAccess policy in Enterprise Management.</li> </ul>	
	EPS ReadOnl yAccess	<ul> <li>Read-only permissions for a specific or all enterprise projects</li> <li>Read-only permissions for viewing all enterprise projects and user information. These permissions can be assigned by the administrator in the Global region on the IAM console.</li> <li>Read-only permissions of a single enterprise project, which can be set in Enterprise Management by the administrator and users granted the EPS FullAccess policy set in IAM.</li> </ul>	Enterprise asset query personnel

Table 5-2 Common operations and required permissions

Operation	EPS FullAccess	EPS ReadOnlyAccess
Viewing resources in an enterprise project	✓	√
Creating an enterprise project	√	×
Modifying an enterprise project	✓	×

Operation	EPS FullAccess	EPS ReadOnlyAccess
Enabling an enterprise project	✓	×
Disabling an enterprise project	√	×
Adding resources to an enterprise project	√	×
Removing a resource from an enterprise project	√	×

#### **5.2 Cloud Service Permissions**

With IAM, you can control resource access for users and user groups based on enterprise projects.

Dependent services that are not support by EPS require other permissions. You can grant dependent service permissions in either of the following ways:

- On the Identity and Access Management (IAM) console, add system-defined policies to user groups.
- If system-defined policies do not meet your requirements, you can create custom policies on the IAM console and assign custom policies to user groups for more refined access control.

# 6 Accessing the Enterprise Project Management Service Page

#### **Prerequisites**

You have been authorized to access the page.

#### **Procedure**

- **Step 1** Sign in to the management console.
- **Step 2** On the management console, click the username in the upper right corner and choose **Enterprise Management** from the drop-down list.

The **Enterprise Project Management** page is displayed.

----End

## Managing Enterprise Projects

#### 7.1 Creating an Enterprise Project

#### Scenario

You can create an enterprise project for a department or based on your business requirements.

#### **Prerequisites**

Only the administrator or the user with the EPS FullAccess policy is allowed to create enterprise projects.

#### **Restrictions and Limitations**

Up to 100 enterprise projects can be created in an account.

#### Procedure

**Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.

The **Enterprise Project Management** page is displayed.

**Step 2** On the **Enterprise Project Management Service** page, click **Create Enterprise Project** in the upper right corner.

The **Create Enterprise Project** page is displayed.

**Step 3** Set **Name** and **Description**, and click **OK**.

Parameter	Description
Name	A project name can contain up to 255 characters. Only letters, digits, underscores (_), and hyphens (-) are allowed. The value cannot contain the word <b>default</b> in any form.  Example: project_A
Description	The description can contain up to 512 characters.
	Example: The enterprise project is used to manage the resources

Table 7-1 Configuration rules

#### 

To avoid data leakage, you are advised not to include personal or sensitive information in enterprise project descriptions or resource tags.

----End

### 7.2 Modifying, Enabling, or Disabling an Enterprise Project

of Project A.

#### Scenario

You can modify, enable, or disable your enterprise projects as needed.

For resource security, enterprise projects cannot be deleted. If you no longer need an enterprise project, you can disable it.

#### **Restrictions and Limitations**

- Disabled enterprise projects cannot be modified.
- Disabled enterprise projects are still counted towards your enterprise project quota. If your enterprise project quota is insufficient, you can contact O&M personnel to delete enterprise projects.
- Disabled enterprise projects will not be displayed in the **Enterprise Project** drop-down list box on pages of creating cloud resources. Resources and user groups cannot be added to the disabled enterprise projects. If you want to use the enterprise projects, enable them again.
- Default enterprise projects cannot be modified or disabled.
- Test projects cannot be disabled.
- Currently, commercial projects cannot be converted to test projects.

#### **Modifying an Enterprise Project**

To modify the name or description of an enterprise project, perform the following steps:

**Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.

The **Enterprise Project Management** page is displayed.

**Step 2** On the **Enterprise Project Management** page, locate the enterprise project you want to modify, choose **More** > **Modify** in the **Operation** column.

The Modify Enterprise Project dialog box is displayed.

**Step 3** Modify the project name or description.

Table 7-2 Configuration rules

Parameter	Description
Name	A project name can contain up to 255 characters. Only letters, digits, underscores (_), and hyphens (-) are allowed. The value cannot contain the word <b>default</b> in any form.  Example: project_A
Description	The description can contain up to 512 characters.  Example: The enterprise project is used to manage the resources of Project A.

Step 4 Click OK.

----End

#### **Enabling an Enterprise Project**

To use a disabled enterprise project again, enable it.

**Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.

The **Enterprise Project Management** page is displayed.

**Step 2** On the **Enterprise Project Management Service** page, locate an enterprise project in the **Disabled** state and choose **More** > **Enable** in the **Operation** column.

The **Enable Enterprise Project** dialog box is displayed.

Step 3 Click OK.

----End

#### Disabling an Enterprise Project

If you no longer need an enterprise project, you can disable it.

**Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.

The **Enterprise Project Management** page is displayed.

**Step 2** On the **Enterprise Project Management Service** page, locate an enterprise project in the **Enabled** state and choose **More** > **Disable** in the **Operation** column.

The **Disable Enterprise Project** dialog box is displayed.

Step 3 Click OK.

----End

### 7.3 Selecting an Enterprise Project for a New Cloud Resource

#### Scenario

When purchasing a cloud resource, you can select an enterprise project in the **Enabled** state for the resource so that the resource can be managed based on the enterprise project.

You can add cloud resources to an enterprise project using either of the following consoles:

- EPS console
- Consoles of corresponding cloud services that support EPS

#### **Constraints**

You cannot add resources to a disabled enterprise project.

#### Using the EPS Console

- **Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.
  - The **Enterprise Project Management** page is displayed.
- **Step 2** In the enterprise project list, click the name of an enterprise project to access the enterprise project details page.
- **Step 3** Click **Create Resource** or **Plan Network** in the upper right corner to add required cloud resources to the enterprise project.

----End

□ NOTE

- If you click **Create Resource** on an enterprise project details page to buy resources, you can only create ECSs, EVS disks, EIPs, and RDS databases.
- For resources supported by EPS, see **Supported Cloud Services**.

#### Using the Console of Cloud Services That Support EPS

You can select an enabled enterprise project when configuring **Enterprise Project** on the cloud resource creation page. New cloud resources can be managed based on the selected enterprise project.

Take ECS as an example. Perform the following operations:

- **Step 1** Click on the upper left corner and select the desired region and project.
- Step 2 Under Service List, choose Compute > Elastic Cloud Server.
- **Step 3** In the upper right corner of the page, click **Create ECS**.

  The page for creating an ECS is displayed.
- **Step 4** Configure the ECS data and select the target enterprise project from the **Enterprise Project** drop-down list.
- **Step 5** On the right of the page, click **Apply Now**.
- **Step 6** On the page for confirming ECS specifications, view resource details and submit the order.

You can view the ECS and the enterprise project to which the ECS belongs on the **Elastic Cloud Server** page after the ECS is created.

----End

# 8 Managing Resources in an Enterprise Project

#### 8.1 Resource Management Overview

You can use enterprise projects to group and manage cloud resources (for example, resources used for the same purpose).

Transferring a resource between enterprise projects does not affect the resource itself. For example, the transferring will not cause an instance to restart, change network configurations, or change the ownership of resources.

However, if you grant resource access based on enterprise projects, users may be affected to access related resources. For example, if you grant a user only the permissions to access resources of project A, after the resources are transferred to project B, the user may fail to access the resources due to insufficient permissions.

#### ■ NOTE

Enterprise projects are different from IAM projects. For more information, see **What Are the Differences Between IAM Projects and Enterprise Projects?** 

#### 8.2 Viewing Resources in an Enterprise Project

#### Scenario

You can view all resources of an enterprise project.

#### Procedure

**Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.

The **Enterprise Project Management** page is displayed.

**Step 2** Click **View Resource** in the **Operation** column of the row containing the target enterprise project.

The enterprise project details page is displayed. You can view the resources in the enterprise project on the **Resources** tab.

**Step 3** Set the resource search options.

- 1. Select a region.
- 2. Select a service type.
- Select a resource type.

Click **Search**. The resources will be displayed in a table at the bottom of the page.

□ NOTE

When **Service** is set to **EIP**, you can view the associated instances. The instances can only be ECSs, enhanced load balancers, BMSs, and virtual IP addresses.

----End

#### 8.3 Adding Resources to an Enterprise Project

#### Scenario

You can add resources to or remove resource from enterprise projects as needed.

An enterprise project can contain resources from different regions.

#### **Restrictions and Limitations**

- Currently, resources can only be transferred between commercial projects or test projects.
- Enterprise projects are commercial projects by default. You cannot transfer the resources of a default enterprise project to a test project.
- You cannot add resources or user groups to a disabled enterprise project.

#### **Procedure**

**Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.

The **Enterprise Project Management** page is displayed.

**Step 2** On the **Enterprise Project Management Service** page, click **View Resource** in the **Operation** column of the row containing the target enterprise project.

The enterprise project details page is displayed. You can view the resources in the enterprise project on the **Resources** tab.

Step 3 Click Add.

The **Add Resource** dialog box is displayed.

- Step 4 Select a mode.
  - **Independent resources**: Each resource is added as an independent resource, and multiple resources can be added at a time.

Select this mode when adding resources other than ECSs.

If you select this mode to add ECSs, their associated resources, such as EIPs and EVS disks, will not be added.

• **ECSs and ECS associated resources**: Only ECSs need to be selected. Resources associated with the selected ECSs will be automatically added to the enterprise project at the same time.

Select this mode when adding ECSs and their associated resources. Currently, only EVS disks and EIPs can be added together with ECSs.

**Step 5** Filter resources by service, region, or enterprise project in the filter box above the resource list, or enter a resource name in the search box for exact search.

Disabled enterprise projects and enterprise of different types are not displayed in the drop-down list.

**Step 6** For services that contain multiple resource types, you can click **1** next to **Resource Type** to filter resources.

Resources meeting the search criteria are displayed in the lower part of the page.

If you select **ECSs and ECS associated resources** for **Mode**, you cannot filter resources by service or resource type.

**Step 7** Select the resources to be added and click **OK**.

After the resources are added, they appear in the resource list of the current enterprise project.

----End

#### 8.4 Removing Resources from an Enterprise Project

#### Scenario

You can add resources to or remove resource from enterprise projects as needed.

You can include resources from different regions in the same project.

Resource removing involves the following two scenarios:

- Transferring resources from an enterprise project to another.
- Transferring resources from an enterprise project to the default enterprise project when you do not need to manage the resources based on any enterprise projects.

#### **Restrictions and Limitations**

- Currently, resources can only be transferred between commercial projects or test projects.
- Enterprise projects are commercial projects by default. You cannot transfer the resources of a test project to a commercial project.

#### **Procedure**

**Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.

The **Enterprise Project Management** page is displayed.

**Step 2** On the **Enterprise Project Management Service** page, click **View Resource** in the **Operation** column of the row containing the target enterprise project.

The enterprise project details page is displayed. You can view the resources in the enterprise project on the **Resources** tab.

**Step 3** Select the resources to be removed, and click **Remove**.

The Remove Resource dialog box is displayed.

- **Step 4** Select a mode.
  - **Independent resources**: Each resource is removed as an independent resource, and multiple resources can be removed at the same time.
    - Select this mode when removing resources other than ECSs.
    - If you select this mode to remove ECSs, their associated resources, such as EIPs and EVS disks, will not be removed.
  - **ECSs and ECS associated resources**: Only ECSs need to be selected. Resources associated with the selected ECSs will be automatically removed from the enterprise project at the same time.
    - Select this mode only when removing ECSs and their associated resources. Currently, only EVS disks and EIPs can be removed together with ECSs.
- **Step 5** Select the destination enterprise project and click **OK**.

Select an enterprise project to manage the resources as required.

By default, the **default** enterprise project is selected if you no longer manage the resources in enterprise projects you created.

Disabled enterprise projects and enterprise of different types are not displayed in the drop-down list.

After the resources are removed from the enterprise project, they appear in the resource list of the destination enterprise project.

#### ----End

**◯** NOTE

Currently, resources can be migrated only from a commercial project to another commercial project or from a test project to another test project.

#### 8.5 Viewing Migration Events

#### Scenario

You can view details of migration events, including the migration time, operator, operation, resource ID, source enterprise project, and destination enterprise project.

#### **Restrictions and Limitations**

Migration events from the last seven days can be queried.

To view migration events, you must use an enterprise master account or have the administrator permission.

#### **Procedure**

- **Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.
  - The **Enterprise Project Management** page is displayed.
- Step 2 On the Enterprise Project Management Service page, click View Migration Event above the enterprise project list.

The **Migration Events** page is displayed, listing the resource adding and removal events in the past seven days.

----End

# 9 Personnel Management

#### 9.1 Viewing Enterprise Project Authorization Records

#### Scenario

You can centrally manage all authorization records of your enterprise projects on the authorization management page of IAM.

#### **Procedure**

- Step 1 Sign in to the management console. In the upper right corner, hover over the account name and choose Enterprise Management from the drop-down list.The Enterprise Project Management page is displayed.
- **Step 2** On the **Enterprise Project Management Service** page, locate the enterprise project you want to view and click **Permissions** in the **Operation** column.
- **Step 3** On the IAM **Authorization** page that is displayed, click **By Enterprise Project** to view authorization records of each enterprise project.
- **Step 4** Click the user or user group name in the **Principal** column to view details about a user or user group.

----End

#### 9.2 Managing User Groups in an Enterprise Project

### 9.2.1 Authorizing a User Group to Manage an Enterprise Project

#### Scenario

You can authorize user groups to manage enterprise projects, and users will inherit permissions from their user groups. The following procedure shows how to authorize a user group to manage an enterprise project.

#### Procedure

**Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.

The **Enterprise Project Management** page is displayed.

- **Step 2** On the **Enterprise Project Management Service** page, click the name of the enterprise project you want to view.
- **Step 3** On the enterprise project details page that is displayed, click the **Permissions** tab, and click **Authorize User Group**.

The IAM **User Groups** page is displayed. Select a user group and authorize the user group to manage the enterprise project.

For details, see "Creating a User Group and Assigning Permissions" in *Identity and Access Management User Guide*.

----End

#### 9.2.2 Removing a User Group from an Enterprise Project

#### Scenario

You can remove user groups from enterprise projects as needed.

Batch operations are supported.

After a user group is disassociated from an enterprise project, they can no longer manage the project.

#### Procedure

**Step 1** Sign in to the management console. In the upper right corner, hover over the account name and choose **Enterprise Management** from the drop-down list.

The **Enterprise Project Management** page is displayed.

- **Step 2** On the **Enterprise Project Management Service** page, click the name of the enterprise project you want to view.
- **Step 3** On the enterprise project details page that is displayed, click the **Permissions** tab, and click **Authorize User Group**.
- **Step 4** On the IAM **User Groups** page that is displayed, click the user group name to go to the user group details page.
- **Step 5** On the **Permissions** tab, click **By Enterprise Project**, select the target enterprise project, and click **Delete** in the **Operation** column.

To delete enterprise projects in batches, select the enterprise projects in the list and click **Delete** above the list.

**Step 6** In the displayed dialog box, click **OK**.

The enterprise projects that are managed by the user group are deleted.

----End

## 10 Quotas

#### What Are Quotas?

Quotas are the limits put on resources to prevent waste. Each service has their own quotas.

You can create up to 100 enterprise projects with an account. If you need to increase the quota, apply for a higher quota.

The quota can be increased to a maximum amount of 256.

**11** FAQs

### 11.1 What Are the Differences Between IAM and Enterprise Management?

Enterprise Management allows you to hierarchically manage resources with enterprise projects to align with your organizational structure. It includes enterprise project, personnel, accounting, and application management.

Identity and Access Management (IAM) is an identity management service that provides identity authentication, permissions management, and access control.

You can use both IAM and Enterprise Management to manage personnel and permissions. Enterprise Management also provides accounting and application management, and supports more fine-grained access control. For medium- and large-sized enterprises, Enterprise Management is a better choice.

For more information about IAM functions, see the Identity and Access Management User Guide.

#### **Differences Between IAM and Enterprise Management**

- Enabling method
  - IAM is an identity management service. It is free of charge, and you can use it immediately after signing up for Huawei Cloud.
  - Enterprise Management is a resource management service. It is free of charge, and you can use it after signing up for Huawei Cloud.
- Resource isolation
  - IAM allows you to create multiple projects in a region for resource isolation. An IAM project can contain resources of only one region. If you assign permissions based on IAM projects, users with related permissions can access all resources in a specific project.
  - Enterprise Management allows you to create multiple enterprise projects in a region for resource isolation. An enterprise project can contain resources of multiple regions. You can control access to a specific resource. For example, you can add an Elastic Cloud Server (ECS) to an

enterprise project, and assign permissions to a user for managing the ECS in the project instead of other ECSs.

#### Relationship Between Enterprise Management and IAM

- The functions of creating users and user groups are the same for IAM and Enterprise Management.
- If you have enabled Enterprise Management, you need to use the policies managed in IAM to assign permissions to user groups created in Enterprise Management. If the system-defined policies cannot meet your requirements, you can create custom policies in IAM. The custom policies will be synchronized to Enterprise Management and can be associated with user groups in both IAM and Enterprise Management.
- If you grant a user group with permissions in both IAM and Enterprise
  Management, users in the group will have permissions from the policies
  attached to the group in both IAM and Enterprise Management. Requests of
  these users will then be authenticated based on the actions in the attached
  policies.
  - If the attached policies contain the same action, the effect of the action in IAM takes priority. For example, when a user requests for creating a cloud server, the Deny effect defined in IAM is applied. Therefore, the user cannot create cloud servers.

```
A policy attached in an IAM project contains the following action:

{
    "Action": [
        "ecs:cloudServers:create"
],
    "Effect": "Deny"
}

A policy attached in an enterprise project contains the following action:
{
    "Action": [
        "ecs:cloudServers:create"
],
    "Effect": "Allow"
}
```

 All different actions in the policies attached in IAM and Enterprise Management will take effect. The following are two actions that allow users to create and delete cloud servers.

```
A policy attached in an IAM project contains the following action:

{
    "Action": [
        "ecs:cloudServers:create"
    ],
        "Effect": "Allow"
}
A policy attached in an enterprise project contains the following action:
{
    "Action": [
        "ecs:cloudServers:delete"
    ],
    "Effect": "Allow"
}
```

#### **Authentication Process**

When a user initiates an access request, the system authenticates the request based on the actions in the policies that have been attached to the group to which the user belongs. The following figure shows the authentication process.

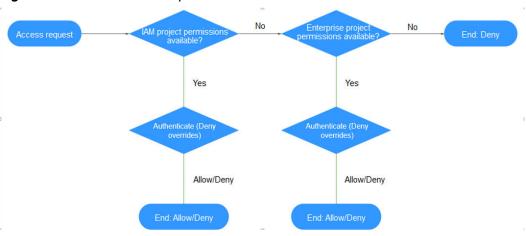


Figure 11-1 Authentication process

- 1. A user initiates an access request.
- 2. The system checks actions in IAM-project-based policies.
- 3. If a matched Allow or Deny action is found, the system returns an authentication result (Allow or Deny), and the authentication finishes.
- 4. If no matched actions are found in IAM project policies, the system continues to check actions in enterprise-project-based policies.
- 5. If a matched Allow or Deny action is found, the system returns an authentication result (Allow or Deny), and the authentication finishes.
- 6. If no matched actions are found, the system returns a Deny, and the authentication finishes.

### 11.2 What Are the Differences Between IAM Projects and Enterprise Projects?

#### **IAM Projects**

An IAM project can contain resources of only one region.

You cannot transfer resources between IAM projects.

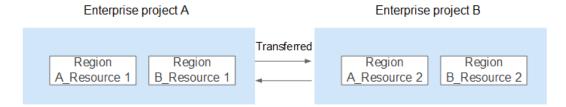


#### **Enterprise Projects**

An enterprise project can contain resources of different regions.

You can transfer resources between enterprise projects.

If you have enabled Enterprise Management, you will no longer be able to create IAM projects.



#### 11.3 How Can I View All Enterprise Projects?

Generally, a user can view only the enterprise projects on which the user has permissions. To view all enterprise projects, a user must:

- Be an administrator.
- Be an IAM user that has been assigned a global authorization policy.

#### 11.4 How Do I Obtain an Enterprise Project ID?

- By calling an API
  - Cloud services can be authorized by IAM to call the API that is used to query a list of enterprise projects. The returned project list contains the ID of each enterprise project. For details about the APIs, see *Enterprise Project Management Service API Reference*.
- From the enterprise project details page. The procedure is as follows:
  - Sign in to the management console. In the upper right corner, hover over the account name and choose Enterprise Management from the dropdown list.
    - The **Enterprise Project Management** page is displayed.
  - b. Click the enterprise name to be queried to view its ID on the displayed details page.