

Alibaba Cloud

Resource Access Management RAM User Management

Document Version: 20201117

Legal disclaimer

Alibaba Cloud reminds you to carefully read and fully understand the terms and conditions of this legal disclaimer before you read or use this document. If you have read or used this document, it shall be deemed as your total acceptance of this legal disclaimer.

1. You shall download and obtain this document from the Alibaba Cloud website or other Alibaba Cloud-authorized channels, and use this document for your own legal business activities only. The content of this document is considered confidential information of Alibaba Cloud. You shall strictly abide by the confidentiality obligations. No part of this document shall be disclosed or provided to any third party for use without the prior written consent of Alibaba Cloud.
2. No part of this document shall be excerpted, translated, reproduced, transmitted, or disseminated by any organization, company or individual in any form or by any means without the prior written consent of Alibaba Cloud.
3. The content of this document may be changed because of product version upgrade, adjustment, or other reasons. Alibaba Cloud reserves the right to modify the content of this document without notice and an updated version of this document will be released through Alibaba Cloud-authorized channels from time to time. You should pay attention to the version changes of this document as they occur and download and obtain the most up-to-date version of this document from Alibaba Cloud-authorized channels.
4. This document serves only as a reference guide for your use of Alibaba Cloud products and services. Alibaba Cloud provides this document based on the "status quo", "being defective", and "existing functions" of its products and services. Alibaba Cloud makes every effort to provide relevant operational guidance based on existing technologies. However, Alibaba Cloud hereby makes a clear statement that it in no way guarantees the accuracy, integrity, applicability, and reliability of the content of this document, either explicitly or implicitly. Alibaba Cloud shall not take legal responsibility for any errors or lost profits incurred by any organization, company, or individual arising from download, use, or trust in this document. Alibaba Cloud shall not, under any circumstances, take responsibility for any indirect, consequential, punitive, contingent, special, or punitive damages, including lost profits arising from the use or trust in this document (even if Alibaba Cloud has been notified of the possibility of such a loss).
5. By law, all the contents in Alibaba Cloud documents, including but not limited to pictures, architecture design, page layout, and text description, are intellectual property of Alibaba Cloud and/or its affiliates. This intellectual property includes, but is not limited to, trademark rights, patent rights, copyrights, and trade secrets. No part of this document shall be used, modified, reproduced, publicly transmitted, changed, disseminated, distributed, or published without the prior written consent of Alibaba Cloud and/or its affiliates. The names owned by Alibaba Cloud shall not be used, published, or reproduced for marketing, advertising, promotion, or other purposes without the prior written consent of Alibaba Cloud. The names owned by Alibaba Cloud include, but are not limited to, "Alibaba Cloud", "Aliyun", "HiChina", and other brands of Alibaba Cloud and/or its affiliates, which appear separately or in combination, as well as the auxiliary signs and patterns of the preceding brands, or anything similar to the company names, trade names, trademarks, product or service names, domain names, patterns, logos, marks, signs, or special descriptions that third parties identify as Alibaba Cloud and/or its affiliates.
6. Please directly contact Alibaba Cloud for any errors of this document.

Document conventions

| Style | Description | Example |
|--|---|---|
|  Danger | A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results. |  Danger: Resetting will result in the loss of user configuration data. |
|  Warning | A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results. |  Warning: Restarting will cause business interruption. About 10 minutes are required to restart an instance. |
|  Notice | A caution notice indicates warning information, supplementary instructions, and other content that the user must understand. |  Notice: If the weight is set to 0, the server no longer receives new requests. |
|  Note | A note indicates supplemental instructions, best practices, tips, and other content. |  Note: You can use Ctrl + A to select all files. |
| > | Closing angle brackets are used to indicate a multi-level menu cascade. | Click Settings > Network > Set network type . |
| Bold | Bold formatting is used for buttons, menus, page names, and other UI elements. | Click OK . |
| Courier font | Courier font is used for commands | Run the <code>cd /d C:/window</code> command to enter the Windows system folder. |
| <i>Italic</i> | Italic formatting is used for parameters and variables. | <code>bae log list --instanceid</code> <i>Instance_ID</i> |
| [] or [a b] | This format is used for an optional value, where only one item can be selected. | <code>ipconfig [-all -t]</code> |
| { } or {a b} | This format is used for a required value, where only one item can be selected. | <code>switch {active stand}</code> |

Table of Contents

| | |
|---|----|
| 1. Overview of a RAM user | 05 |
| 2. Create a RAM user | 06 |
| 3. View the basic information of a RAM user | 08 |
| 4. Modify the basic information of a RAM user | 09 |
| 5. Grant permissions to a RAM user | 10 |
| 6. View the permissions of a RAM user | 11 |
| 7. Remove permissions from a RAM user | 12 |
| 8. Log on to the console as a RAM user | 13 |
| 9. Delete a RAM user | 14 |

1. Overview of a RAM user

A RAM user is a RAM identity with a fixed ID and credential information. A RAM user is an identity that represents a person or an application.

- An Alibaba Cloud account can create multiple RAM users. RAM users can be used to represent employees, systems, or applications within an enterprise.
- RAM users do not own resources. Fees incurred by RAM users are billed to the corresponding Alibaba Cloud accounts. RAM users do not receive individual bills and cannot make payments.
- RAM users are visible only to the Alibaba Cloud account to which they belong.
- RAM users must be authorized by their parent Alibaba Cloud accounts before they can log on to the RAM console or call API operations to use resources owned by the parent account.


Enterprises that have multiple Alibaba Cloud resources can use RAM to manage user permissions and resources. For more information, see [Use RAM to manage user permissions and resources](#).

2. Create a RAM user


This topic describes how to create a RAM user. A RAM user is an entity that you create in RAM to represent a person or application. A RAM user can access Alibaba Cloud resources after the RAM user is granted the required permissions.

Procedure


1. Log on to the [RAM console](#) with an Alibaba Cloud account.
2. In the left-side navigation pane, click **Users** under **Identities**.
3. On the Users page, click **Create User**.

 **Note** You can click **Add User** to create multiple RAM users at a time.

4. Set the **Logon Name** and **Display Name** parameters.
5. In the **Access Mode** section, select **Console Password Logon** or **Programmatic Access**.
 - o **Console Password Logon:** If you select this access mode, you must complete the logon security settings. These settings specify whether to use a system-generated or custom logon password, whether the password must be reset on the next logon, and whether to enable multi-factor authentication (MFA).

 **Note** If you select **Custom Logon Password** in the **Console Password** section, you must specify a password. The password must meet the strength requirements that you have specified on the **Identities > Settings** page. For more information, see [Set a password policy for RAM users](#).

- o **Programmatic Access:** If you select this access mode, an **AccessKey** pair is automatically created for the RAM user. The RAM user can call API operations or use SDKs to access Alibaba Cloud resources.

 **Note** To ensure the security of your Alibaba Cloud account, we recommend that you select only one access mode for the RAM user. This prevents the RAM user from using an **AccessKey** pair to access Alibaba Cloud resources after the RAM user leaves the organization.

6. Click **OK**.

What's next

- You can attach one or more policies to the RAM user. In this way, you grant the RAM user the access to the Alibaba Cloud resources that are specified in the policies. For more information, see [Grant permissions to a RAM user](#).
- The RAM user can be used to log on to the console. For more information, see [Log on to the console as a RAM user](#).
- You can add the RAM user to one or more RAM user groups and grant permissions to the RAM user groups. For more information, see [Add a RAM user to a RAM user group](#).

Related information

- [CreateUser](#)

3. View the basic information of a RAM user

This topic describes how to view the basic information of a RAM user, including the user name, display name, and user ID (UID).

Procedure

1. Log on to the [RAM console](#) by using an Alibaba Cloud account.
2. In the left-side navigation pane, click **Users** under **Identities**.
3. In the **User Logon Name/Display Name** column, click the name of the RAM user.
4. In the **Basic Information** section, view the user information.

Related information

- [Get User](#)

4. Modify the basic information of a RAM user

This topic describes how to modify the basic information of a RAM user, including the username and display name.

Procedure

1. Log on to the [RAM console](#) by using an Alibaba Cloud account.
2. In the left-side navigation pane, click **Users** under **Identities**.
3. In the **User Logon Name/Display Name** column, click the name of the RAM user.
4. In the **Basic Information** section, click **Modify Basic Information** and modify the basic information.
5. Click **OK**.

Related information

- [UpdateUser](#)


5. Grant permissions to a RAM user

This topic describes how to grant permissions to a RAM user. A RAM user can access Alibaba Cloud resources after obtaining the relevant permissions.

Method 1

Grant permissions to a RAM user on the **Users** page.

1. Log on to the [RAM console](#) by using an Alibaba Cloud account.
2. In the left-side navigation pane, click **Users** under **Identities**.
3. In the **User Logon Name/Display Name** column, find the RAM user.
4. Click **Add Permissions**. On the page that appears, the **Principal** field is automatically filled in.
5. In the **Policy Name** column, select the policies that you want to attach to the RAM user.


 **Note** You can click the cross sign (✕) next to a policy in the **Selected** section to delete the policy.

6. Click **OK**.
7. Click **Finished**.

Method 2

Grant permissions to a RAM user on the **Grants** page.

1. Log on to the [RAM console](#) by using an Alibaba Cloud account.
2. In the left-side navigation pane, click **Grants** under **Permissions**.
3. Click **Grant Permission**.
4. In the **Principal** section, enter the name or ID of the RAM user, and then select the RAM user from the auto-complete results.
5. In the **Policy Name** column, select the policies that you want to attach to the RAM user.

 **Note** You can click the cross sign (✕) next to a policy in the **Selected** section to delete the policy.

6. Click **OK**.
7. Click **Finished**.

Related information

- [AttachPolicyToUser](#)

6. View the permissions of a RAM user

This topic describes how to view the permissions of a RAM user, including the permissions that are granted to the RAM user and the permissions that the RAM user inherits from the RAM user groups. You can view the applicable scope, type, and description of each permission policy to help you better manage permissions.

View the permissions that are granted to a RAM user

1. Log on to the [RAM console](#) with an Alibaba Cloud account.
2. In the left-side navigation pane, click **Users** under **Identities**.
3. In the **User Logon Name/Display Name** column, click the username of the target RAM user.
4. Click the **Permissions** tab.
5. On the **Individual** tab, view the permissions that are granted to the RAM user.

View the permissions that a RAM user inherits from the RAM user groups

1. Log on to the [RAM console](#) with an Alibaba Cloud account.
2. In the left-side navigation pane, click **Users** under **Identities**.
3. In the **User Logon Name/Display Name** column, click the username of the target RAM user.
4. Click the **Permissions** tab.
5. Click the **Group Permissions** tab. On this tab, view the permissions that the RAM user inherits from the RAM user groups.

7. Remove permissions from a RAM user

You can remove permissions from a RAM user if the RAM user no longer needs the permissions or the RAM user leaves your organization. This topic describes how to remove permissions from a RAM user.

Method 1

You can remove permissions from a RAM user on the **Grants** page.

1. Log on to the [RAM console](#) by using an Alibaba Cloud account.
2. In the left-side navigation pane, click **Grants** under **Permissions**.
3. On the **Grants** page, find the RAM user and policy, and click **Revoke Permission** in the **Actions** column.
4. In the message that appears, click **OK**.

Method 2

You can remove permissions from a RAM user on the **Permissions** tab of a user details page.

1. Log on to the [RAM console](#) by using an Alibaba Cloud account.
2. In the left-side navigation pane, click **Users** under **Identities**.
3. On the **Users** page, click the name of the RAM user in the **User Logon Name/Display Name** column.
4. On the page that appears, click the **Permissions** tab. On this tab, find the policy that you want to detach from the RAM user, and click **Remove Permission** in the **Actions** column.
5. In the message that appears, click **OK**.

Related information

- [DetachPolicyFromUser](#)

8. Log on to the console as a RAM user


This topic provides the logon URL of a RAM user and describes how to log on to the Alibaba Cloud Management Console as a RAM user.

Context

- For information about the default domain name, account alias, and domain alias, see [Terms](#).
- After you log on to the RAM console by using an Alibaba Cloud account, you can choose **Identities** > **Settings** and click the **Advanced** tab to view the default domain name and domain alias.


Procedure

1. Log on to the [Alibaba Cloud Management Console](#) as a RAM user.


 **Note** To view the logon URL of a RAM user, use your Alibaba Cloud account to log on to the [RAM console](#). The logon URL is displayed on the **Overview** page.

2. Enter the logon name of the RAM user and click **Next**. Three types of logon names are available:


- Logon name 1: default domain name. The format of the RAM user logon name is `<$username>@<$AccountAlias>.onaliyun.com`, such as, `username@company-alias.onaliyun.com`.

 **Note** The logon name of the RAM user is in the User Principal Name (UPN) format. All logon names that are listed in the RAM console follow this format. `<$username>` indicates the name of the RAM user. `<$AccountAlias>.onaliyun.com` indicates the default domain name.

- Logon name 2: the account alias. The format of the RAM user logon name is `<$username>@<$AccountAlias>`, such as, `username@company-alias`.

 **Note** `<$username>` indicates the name of the RAM user. `<$AccountAlias>` indicates the account alias.

- Logon name 3: the domain alias if configured. The format of the RAM user logon name is `<$username>@<$DomainAlias>`, such as, `username@example.com`.

 **Note** `<$username>` indicates the name of the RAM user and `<$DomainAlias>` indicates the domain alias.

3. Enter the logon password and click **Login**.

9.Delete a RAM user

This topic describes how to delete a Resource Access Management (RAM) user. After a RAM user is deleted, the AccessKey pairs of the RAM user are deleted and the multi-factor authentication (MFA) device of the RAM user is removed. The permissions of the RAM user are also removed.

Prerequisites

The RAM user is not used by systems or applications. Otherwise, a service failure may occur after the RAM user is deleted.

Procedure

1. Log on to the [RAM console](#) with an Alibaba Cloud account.
2. In the left-side navigation pane, click **Users** under **Identities**.
3. On the Users page, find the RAM user that you want to delete in the **User Logon Name/Display Name** column, and click **Delete** in the Actions column.
4. In the dialog box that appears, click **Aware of the Risk and Confirm Delete**.

Related information

- [DeleteUser](#)