

Alibaba Cloud

Domains

Domain name management

Document Version: 20220409

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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>

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1. Change domain information

1.1. Transfer domain name ownership

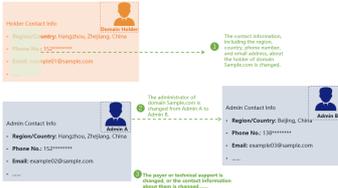
If the registrant of a domain name changes due to reasons such as domain name trading or Internet Content Provider (ICP) filing, you must transfer the ownership of the domain name to the actual domain name registrant as soon as possible. This topic describes how to transfer domain name ownership in different scenarios and the precautions associated with ownership transfer.

Differences between ownership transfer and other situations

If the registrant of a domain name needs to be changed from Person A to Person B due to reasons such as domain name trading or ICP filing, the ownership of the domain name must be transferred. If the contact information of a domain name registrant changes, the registrant needs only to update the domain name information. For more information, see [Modify domain name information](#). The transfer of domain name ownership is not involved in this situation. After the ownership of a domain name is transferred, the Alibaba Cloud account to which the domain name belongs will not be changed.

 **Note** Before you transfer your domain name ownership to another registrant, you must check when your domain name expires in the [Domains console](#). You cannot transfer the ownership of an expired domain name. If you want to perform the transfer, you must renew the domain name before the transfer. For more information, see [Renew a domain name](#).

Scenario	Example	Solution	Reference
<p>The registrant of a domain name is changed.</p> 	<ul style="list-style-type: none"> The name of the enterprise used for the real-name verification for the domain name is changed. <p>For example, the enterprise name is changed from DocExample to DocExample02 .</p> <ul style="list-style-type: none"> The domain name is sold. <p>For example, Entity A sells a domain name to Entity B. Then, the domain name belongs to Entity B.</p>	<p>Transfer the domain name ownership</p>	<ul style="list-style-type: none"> Transfer the ownership of a single domain name Transfer the ownership of multiple domain names at a time

Scenario	Example	Solution	Reference
<p>The registrant of a domain name remains the same. However, the contact information of the registrant, the administrator, the user responsible for the payment, or the technical contact of the domain name is changed.</p> 	<ul style="list-style-type: none"> The contact information of the individual or enterprise used for the real-name verification for the domain name is changed. <p>For example, the mobile phone number or email address of the individual who has passed the real-name verification for the domain name is changed.</p> <div style="background-color: #e0f2f7; padding: 10px; border: 1px solid #ccc;"> <p>Note If the name or ID card number of the individual is changed, ownership transfer is required.</p> </div> <ul style="list-style-type: none"> The office location of the enterprise used for the real-name verification for the domain name is changed. <p>For example, the office location is changed from Xihu District, Hangzhou, Zhejiang to Binjiang District, Hangzhou, Zhejiang.</p> <div style="background-color: #e0f2f7; padding: 10px; border: 1px solid #ccc;"> <p>Note If the name of the enterprise is changed, ownership transfer is required.</p> </div>	<p>Modify the domain name information</p>	<p>Modify domain name information</p>

Scenario	Example	Solution	Reference
<p>The registrant of a domain name remains the same, but the domain name is transferred to another Alibaba Cloud account.</p>	<ul style="list-style-type: none"> Multiple domain names that were previously managed by different Alibaba Cloud accounts are transferred to a single Alibaba Cloud account for centralized management. The domain name was previously managed by a specific Alibaba Cloud account. After the domain name trading, it is transferred to the Alibaba Cloud account of the buyer. <div style="background-color: #e1f5fe; padding: 10px; margin-top: 10px;"> <p> Note If the individual who performs the real-name verification for the domain name changes after the domain name is transferred to the destination Alibaba Cloud account, the ownership of the domain name must be transferred.</p> </div>	<p>Transfer the domain name to another Alibaba Cloud account</p>	<ul style="list-style-type: none"> Online transfer Offline transfer

Review time

When the ownership of a domain name is being transferred to a new registrant, the time required to review the materials submitted for the real-name verification is usually three to five business days. The specific review time varies in the following situations:

- Transfer the ownership of multiple domain names by using a registrant profile that has passed the real-name verification:

- Non-CNNIC domain names: The verification process can be complete within a short period of time. CNNIC is the abbreviation of China Internet Network Information Center.
- CNNIC domain names such as .cn, .中国, .公司, and .网络: If you transfer the ownership of a CNNIC domain name by using a registrant profile that has passed the real-name verification, little information and few materials are required for review. However, CNNIC still reviews the domain name information and the real-name verification materials. The review process usually takes three to five business days.
- Transfer the ownership of a single domain name by using a registrant profile that has passed the real-name verification:

After you select a registrant profile that has passed the real-name verification, you must still enter your certificate number and upload materials for the real-name verification to transfer the ownership. The review process usually takes three to five business days.

- Transfer the ownership of special domain names with suffixes such as .gov.cn: Registrants of special domain names cannot be changed online. The time required to review the real-name verification materials varies based on the actual situation.

Note The review results require about three business days to be synchronized to the database of the Ministry of Industry and Information Technology (MIIT). After the ownership of a domain name is transferred to you, we recommend that you wait for three business days before you apply for an ICP filing. Otherwise, your application may be denied.

Materials required to transfer domain name ownership

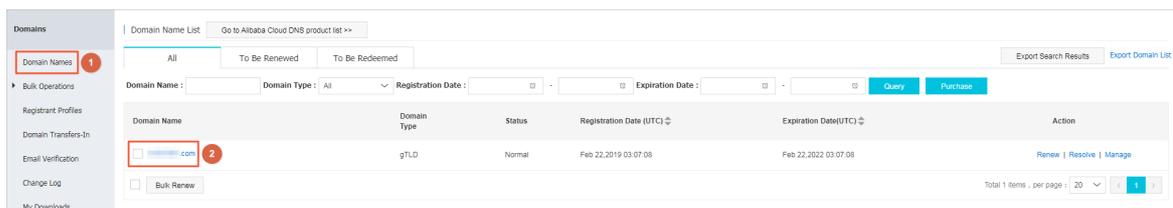
If you want to transfer the ownership of a domain name to a new registrant, you must provide materials of the new registrant for the real-name verification. The certificates or documents of the current registrant are not required. Before the ownership transfer, we recommend that you check the type of your domain name registrant or your domain name type and prepare the required materials in advance. This facilitates the transfer.

The following materials are required to transfer the ownership of both individual and organization domain names:

- For the materials required to transfer the ownership of individual domain names, see [域名持有者为个人](#).
- For the materials required to transfer the ownership of organization domain names, see [Organization registrants](#).

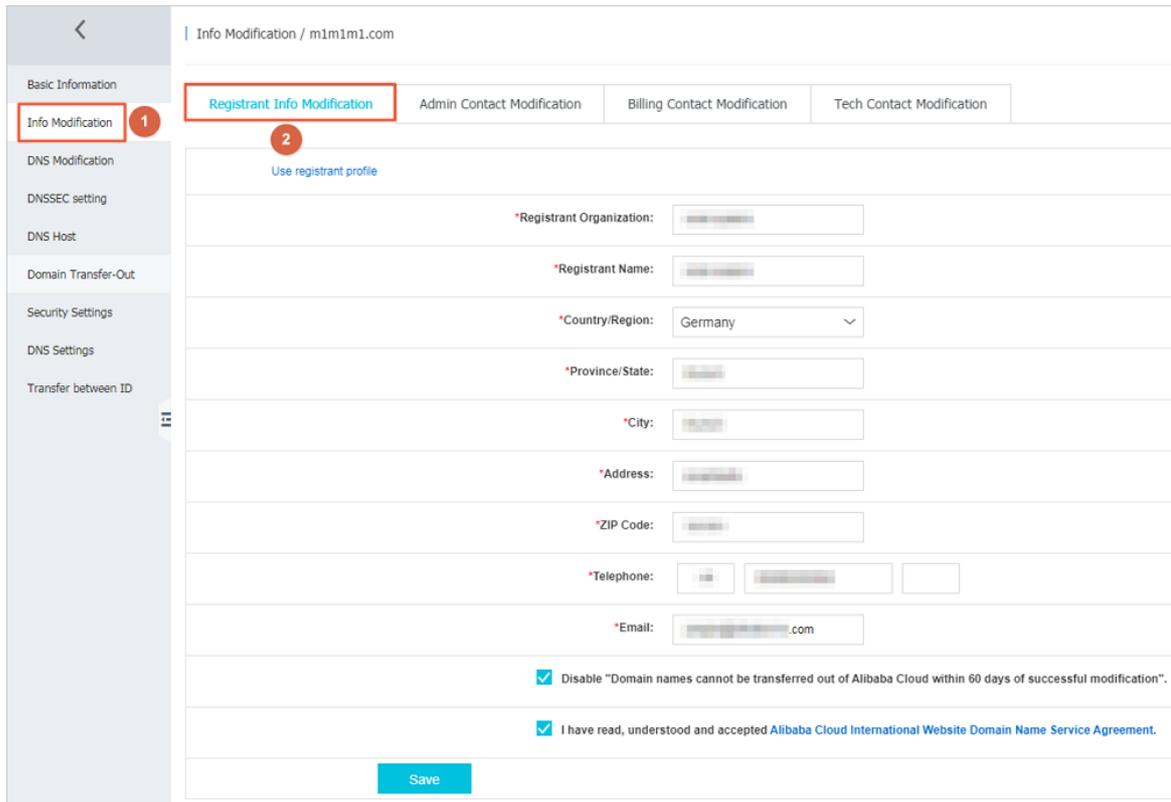
Transfer the ownership of a single domain name

1. Log on to the [Domains console](#).
2. On the **Domain Name List** page, click the domain name for which you want to transfer the ownership to go to the **Basic Information** page.



3. In the left-side navigation pane, click **Info Modification**. The **Registrant Info Modification** tab

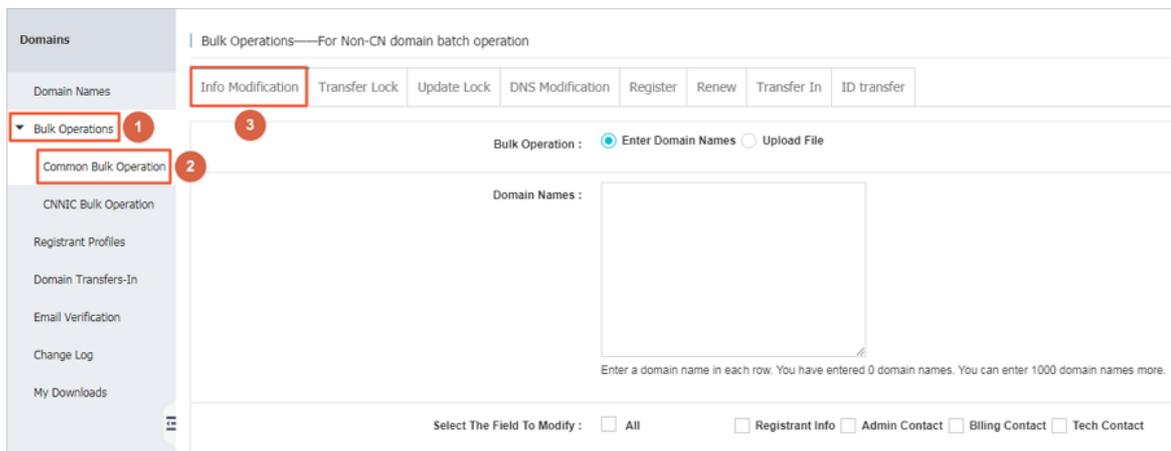
appears.



4. On the Registrant Info Modification tab, enter the information of the new registrant, or click Use registrant profile to select a registrant profile that has passed the real-name verification.
5. Read and select the terms of service, and click Save.
6. Follow the instructions to transfer the ownership of the specified domain name to the new registrant.

Transfer the ownership of multiple domain names at a time

1. Log on to the [Domains console](#).
2. In the left-side navigation pane, choose **Bulk Operations > Common Bulk Operation**, or choose **Bulk Operations > CNNIC Bulk Operation** to go to the **Info Modification** tab.



3. On the **Info Modification** tab, enter the domain names for which you want to transfer the

ownership. Select **Registrant Info** and a registrant profile that has passed the real-name verification.

4. Click **Get Verification Code** to obtain a verification code and enter the obtained code in the **Email Verification Code** field to complete email-based verification.
5. Read and select the terms of service, and click **Submit**.
6. Follow the instructions to transfer the ownership of the specified domain names to the new registrant.

1.2. Modify domain name information

If your domain name information such as the registrant email address or mobile phone number changes, or if the domain name administrator changes, you must modify the domain name information in a timely manner to ensure information accuracy. This topic describes how to modify domain name information.

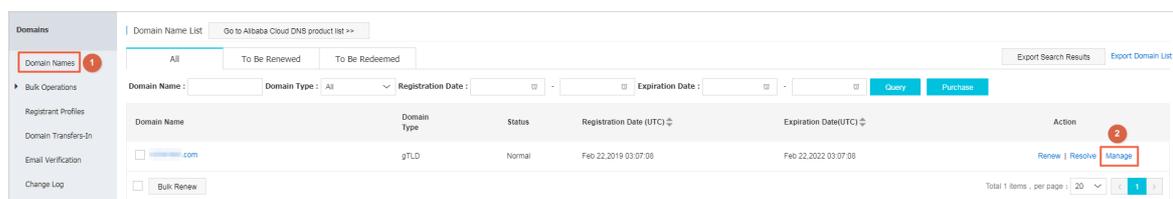
Background information

Domain name information includes information of the registrant, administrator, billing contact, and technical contact. If you need to transfer the domain name ownership or modify certificate information of the domain name registrant, see [Transfer domain name ownership](#). Follow the instructions in this topic to modify registrant information such as the address, email address, and mobile phone number.

Based on the [transfer policy](#) issued by the Internet Corporation for Assigned Names and Numbers (ICANN), you cannot transfer a domain name from the current registrar within 60 days after you transfer the ownership of the domain name. If you need to transfer the domain name from Alibaba Cloud to another registrar within 60 days after you transfer the domain name ownership, select **Disable "Domain names cannot be transferred out of Alibaba Cloud within 60 days of successful modification"** when you modify domain name information. Otherwise, the transfer-out request will fail.

Procedure

1. Log on to the [Alibaba Cloud Domains console](#).
2. On the **Domain Names** page, find the domain name for which you want to modify information and click **Manage** in the **Action** column.



3. In the left-side navigation pane, click **Info Modification**.
4. Click the **Registrant Info Modification**, **Admin Contact Modification**, **Billing Contact Modification**, or **Tech Contact Modification** tab as required.

Note If you transfer the domain name ownership on the **Registrant Info Modification** tab, the system will send an email to the email addresses of both the original and new registrants.

5. Modify the domain name information as required.

Modify the registration information of an internationalized domain name

Scenario: The information of an internationalized domain name changes or is invalid.

Based on the [WHOIS Data Reminder Policy](#) of ICANN and the domain name registration agreement, Alibaba Cloud, as a domain name registrar, will send a notification email to the domain name registrant when the registration information is updated. Check the domain name information in a timely manner. If you find that the domain name information has changed or is invalid, update the domain name information as soon as possible to ensure that your domain name information is correct.

Impact of not updating domain name information promptly

If your domain name information is invalid and is not updated in a timely manner, you may not receive important domain name notifications pertaining to security threats. Based on the provisions on domain name registration, if you provide false or invalid registration information or do not update your registration information in a timely manner, your domain name may be deleted.

Prerequisites for modifying registration information about internationalized domain names

The domain name is in the domain name list in the Alibaba Cloud Domains console.

Modification and instructions

You can modify the registration information of an internationalized domain name, including the information of the registrant, administrator, billing contact, and technical contact. For more information about how to modify the registration information of an internationalized domain name, see [Modify domain name information](#).

1.3. Change DNS servers for a domain name

If a domain name is registered with Alibaba Cloud, the domain name is resolved by Alibaba Cloud DNS servers by default. If you want to use your self-developed DNS servers or third-party DNS servers to resolve the domain name, perform the operations described in this topic.

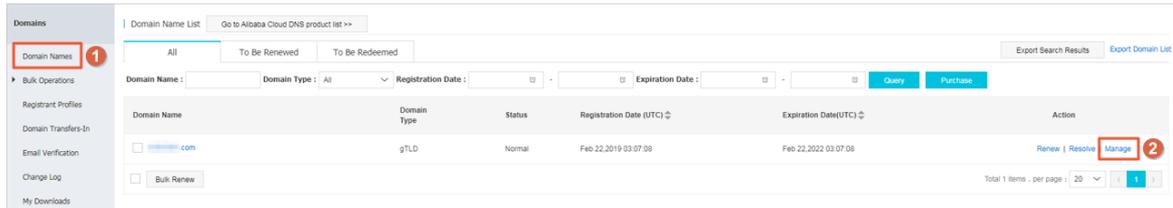
Prerequisites

- The domain name is registered with or transferred to Alibaba Cloud. If you transfer the domain name from Alibaba Cloud to another domain name registrar, you must change DNS servers at the new registrar.
- You have your self-developed DNS servers or third-party DNS servers.
- The domain name is valid. If your domain name is expired, you must renew it. For more information, see [Renew a domain name](#).

Procedure

 **Note** After you change the IP address of a DNS server, it takes a maximum of 48 hours for the update to take effect.

1. Log on to the [Alibaba Cloud Domains console](#).
2. On the **Domain Name List** page, find the domain name for which you want to change the DNS server. Then, click **Manage** in the **Action** column to go to the **Basic Information** page.



3. In the left-side navigation pane, click **DNS Modification**.
4. On the **DNS Modification** page, click **Change DNS Server**.
5. Change the IP address of the DNS server as prompted and click **Confirm**.

2. Renew domain names

2.1. Renew a domain name

You can renew your registered domain name to extend the validity period of the domain name. Renew your domain name before it expires to ensure its normal operations.

Context

Before your domain name expires, Alibaba Cloud sends an email or text message notification to remind you to renew your domain name in time. Generally, you have a 30-day renewal grace period after the domain name expires. Renew your domain name within the renewal grace period. Otherwise, the domain name enters the redemption period. During the redemption period, you must pay a higher price to redeem the domain name. For more information, see [Redeem a domain name](#).

Time for resuming the domain name resolution

If you do not renew your domain name before it expires, the resolution of your domain name may be suspended by the registrar at any time based on related regulations published by the domain name administration, and your website will be inaccessible.

If you renew your domain name within 30 days after it expires (28 days for .hk domain names), the resolution of your domain name will resume within a certain period of time.

- Domain names that use Alibaba Cloud DNS servers: The resolution will resume within 24 hours after the domain name is renewed.
- Domain names that do not use Alibaba Cloud DNS servers: The resolution will resume within 24 to 48 hours after the domain name is renewed.

We recommend that you renew your domain name before it expires to ensure the continuity of your business.

Procedure

 **Note** For more information about the renewal prices of common domain names, see [Domain Name Service Product Price Overview](#). The renewal price of a premium domain name is subject to the price returned by the domain name registrar in real time. The domain name registrar occasionally releases promotion policies. The preferential prices of domain names only appear on the order settlement page. Therefore, the renewal prices on the renewal order page prevail.

1. Log on to the [Alibaba Cloud Domains console](#) with the Alibaba Cloud account of the domain name and its password.
2. Go to the order renewal page in one of the following ways:
 - Renew a single domain name
On the **Domain Name List** page, click the **To Be Renewed** tab. Find the domain name that you want to renew and click **Renew** in the **Action** column.
 - Renew multiple domain names at a time
On the **Domain Name List** page, click the **To Be Renewed** tab. Select multiple domain names that you want to renew and select **Bulk Renew**.

3. Select the domain names to be renewed and the renewal duration, and then click **Bulk Purchase**.

 **Note** View the current price on the page for the actual renewal price. If the renewal price is higher than the initial purchase price, it may be due to the promotional discount for the initial purchase. The discount does not apply to the renewal.

4. Read and agree to the terms of service, and then click **Pay**.
5. Select a payment method, and then click **Pay**. The renewal is finished after the payment is completed.

Results

Go to the [Alibaba Cloud WHOIS lookup](#) page. Query the expiration time of the domain name to verify that the domain name is renewed.

3. Redeem a domain name

After a domain name expires, a 30-day grace period is provided for renewal. When the grace period ends, the domain name enters the redemption period. Domain names with different suffixes have different redemption periods. You need to pay a high price to redeem your domain name within the redemption period. This topic describes how to redeem a domain name.

Prerequisites

The grace period for renewal of the domain name ends. The domain name is in the redemption period.

Context

Domain names with different suffixes have different redemption periods. The following redemption periods are provided for different domain names:

- China Internet Network Information Center (CNNIC) domain names, such as .cn, .中国, .公司, and .网络 domain names, have a 14-day redemption period. After the redemption period ends, the domain names are available to the public for registration.

 **Note** .cn domain names include second-level domain names such as .com.cn and .gov.cn. The .gov.cn domain names have the same redemption period and redemption regulations as .cn domain names. However, the .gov.cn domain names have strict requirements on the subjects who register such domain names.

- Other top-level domain names, such as .com, .net, .biz, .cc, .tv, .org, .me, .so, .tel, .mobi, .asia, .name, and .info domain names, have a 29-day redemption period. If internationalized domain names within an Alibaba Cloud account are not redeemed within the redemption period, the domain names enter a five-day waiting-for-deletion period. During this period, you cannot renew or redeem the domain names. The domain names are deleted after the period ends. After the five-day waiting-for-deletion period ends, the domain names are available to the public for registration. The systems of the domain name registries determine the time when these domain names are deleted and the time when the registration of these domain names is allowed.
- If .hk domain names are not renewed within the 28-day grace period for renewal, the domain names enter a 59-day redemption period. After the redemption period ends, these domain names are deleted.

 **Note**

- The redemption period may be inaccurate by up to 24 hours. This error may be caused by reasons such as system running queues and time differences at the domain name registries. You can check the actual status of domain names in the Alibaba Cloud Domains console.
- You can check whether a domain name is in the redemption period based on the status displayed in the Alibaba Cloud Domains console. The expiration time and status of a domain name in the WHOIS output may be different from the information displayed in the Alibaba Cloud Domains console. These differences may be caused by auto-renewal and transfers. Therefore, the information in the WHOIS output can be used for reference only.
- After a domain name expires and enters the redemption period, you can retain this domain name within your Alibaba Cloud account, transfer this domain name to a dedicated Alibaba Cloud account for centralized management, or add the domain name to the list of pre-released domain names and offer the list to the public for bidding. If you do not redeem your domain name within the redemption period, you lose the ownership of the domain name, and the successful bidder during the pre-release obtains the ownership of the domain name.

Procedure

To ensure the service stability of your domain name, you need to renew your domain name before it expires. This can prevent losses that occur if you fail to renew your domain name in time. If you fail to renew a domain name within the renewal grace period, the domain name enters the redemption period. To redeem a domain name, perform the following steps:

 **Note**

- When a domain name enters the redemption period, the costs of redeeming the domain name from the domain name registry are much higher than those of registering or renewing the domain name. For more information about the redemption prices of domain names, see [Domain redemption prices](#).
- During the redemption period, DNS resolution is suspended. After the domain name is redeemed, DNS resolution is immediately resumed. However, you must reset the DNS records of the domain name. In most cases, the resolution recovery requires 24 to 48 hours to take effect.

1. Log on to the [Alibaba Cloud Domains console](#).
2. On the **Domain Name List** page, click the **To Be Redeemed** tab.

 **Note** If you cannot find your domain name on the **To Be Redeemed** tab, the domain name may have been deleted by the domain name registry after the redemption period ended.

3. Find the domain name that you want to redeem and click **Redeem** in the Action column.
4. Complete the redemption process by following the on-screen instructions.

 **Note** In most cases, the validity period of a domain name is increased by one year after the domain name is redeemed. For specific domain names, you must renew a domain name to extend the validity period of the domain name after the domain name is redeemed. Check whether the expiration time of a domain name is updated in the Alibaba Cloud Domains console after the domain name is redeemed. If the expiration time of the domain name is not updated, you must renew the domain name to extend the validity period.

4. Create a domain name registrant profile

Alibaba Cloud Domains allows you to create domain name registrant profiles that can be used to specify registrant information during registration, transfer, and trade of domain names. We recommend that you create a registrant profile, and submit it for the email and real-name verifications as soon as possible.

 **Note** After the real-name verification for a registrant profile is approved, you can use the profile as a template when you register domain names, modify domain name registrant information, or purchase domain names. The use of registrant profiles saves time and maximizes efficiency by eliminating the need for repeated submission of information and materials by the applicant. In addition, most domain name registrars recognize review results of registrant profiles, which improves the review efficiency.

Registrant profile description

Alibaba Cloud allows you to create two types of registrant profiles: common profiles and China Internet Network Information Center (CNNIC) profiles. You can use the registrant profiles to register domain names and transfer domain name ownership.

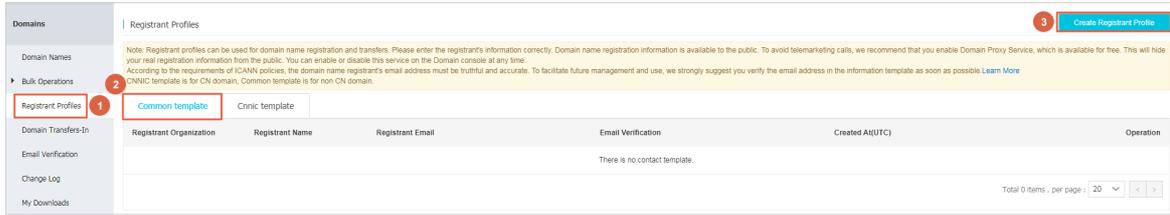
Profile type	Scenarios	Precaution
Common profile	You can use a common profile to perform operations such as domain name registration, domain name ownership transfer, and domain name transfer-in on domain names except the .cn, .中国, .公司, and .网络 domain names.	After you create a common profile, verify the registrant email. Otherwise, you cannot use the profile to register a domain name.
CNNIC profile	You can use a CNNIC profile to perform operations such as domain name registration, domain name ownership transfer, domain name transfer-in, and real-name verification on the .cn, .中国, .公司, and .网络 domain names from the CNNIC registrar.	<ul style="list-style-type: none">After you create a CNNIC profile, verify the registrant email. Otherwise, you cannot use the profile to register a domain name.After you create a CNNIC profile, complete the real-name verification. Otherwise, the .cn, .中国, .公司, and .网络 domain names registered by using the profile are in the serverHold state and are inaccessible.

Create a common profile

You can create a common profile on the **Registrant Profiles** page in the Alibaba Cloud Domains console or create it during domain name registration. When you register a domain name, you can select an existing common profile. If you have not created a profile, perform the following steps to create a **common profile** in the Alibaba Cloud Domains console.

1. Log on to the [Alibaba Cloud Domains console](#).
2. In the left-side navigation pane, click **Registrant Profiles**.

3. Click the **Common template** tab. In the upper-right corner of the page, click **Create Registrant Profile**.



4. Enter the registrant information and click **Save**.

Note The information you enter must be complete, authentic, and valid.

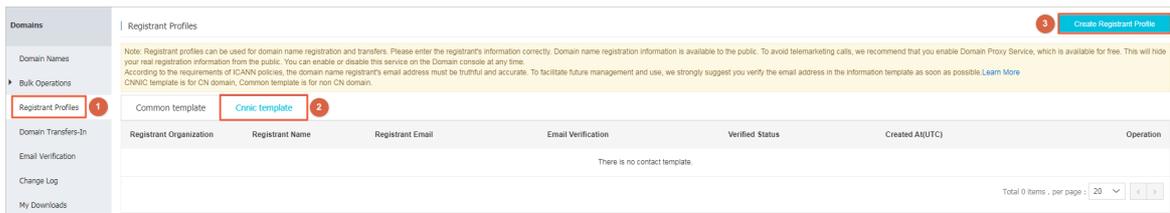
After you create a common profile, you can go to the **Registrant Profiles** page and perform the following operations on the profile:

- **Set as default** : Set the profile as the default profile for domain name registration.
- **Delete** : Delete the profile.
- **View** : View details of the registrant stated in the profile.

Create a CNNIC profile

You can create a CNNIC profile on the **Registrant Profiles** page in the Alibaba Cloud Domains console or create it during domain name registration. When you register a domain name, you can select an existing CNNIC profile. If you have not created a profile, perform the following steps to create a **CNNIC profile** in the Alibaba Cloud Domains console:

1. Log on to the [Alibaba Cloud Domains console](#).
2. In the left-side navigation pane, click **Registrant Profiles**.
3. Click the **Cnnc template** tab. In the upper-right corner of the page, click **Create Registrant Profile**.



4. Enter the registrant information and click **Save**.

Note The information you enter must be complete, authentic, and valid.

After you create a common profile, you can go to the **Registrant Profiles** page and perform the following operations on the profile:

- **Set as default** : Set the profile as the default profile for domain name registration.
- **Delete** : Delete the profile.
- **View** : View details of the registrant stated in the profile.

What's next

Verify the email address of the domain name registrant and complete the real-name verification for the CNNIC profile.

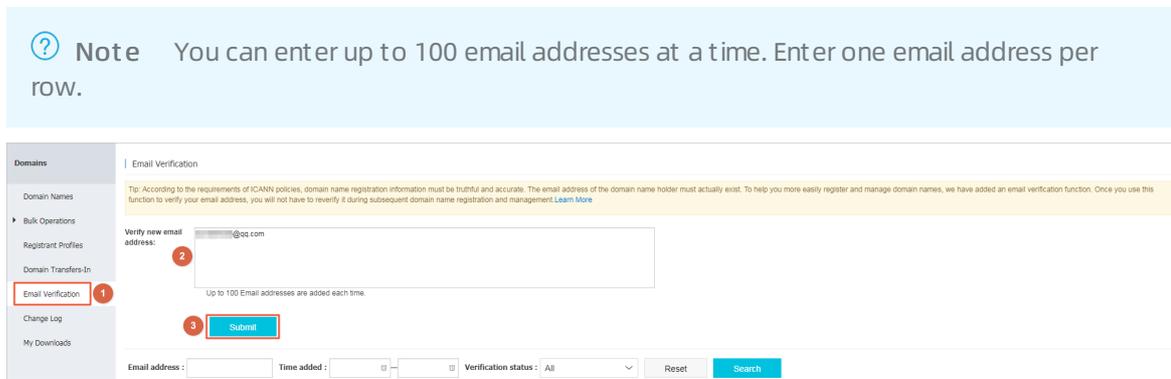
- Common profile: After you create a common profile, verify the email address of the domain name registrant. For more information, see [Verify the email address of a domain holder](#).
- CNNIC profile:
 - i. After you create a CNNIC profile, verify the email address of the domain name registrant and complete the real-name verification. For more information, see [Verify the email address of a domain holder](#).
 - ii. For more information about the real-name verification for a CNNIC profile, see [Real-name verification for CNNIC templates](#).

5. Verify the email address of a domain holder

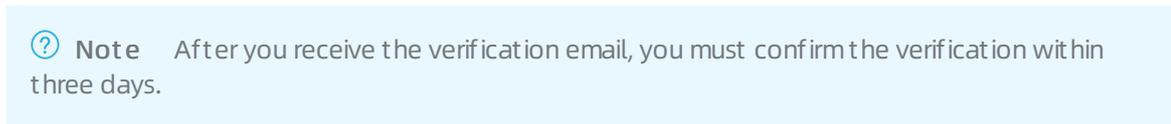
The Internet Corporation for Assigned Names and Numbers (ICANN) requires that domain holder information on WHOIS must be valid and complete. The email address of a domain holder must be valid. Therefore, Alibaba Cloud verifies the email address of every domain holder. If the email address fails verification, the domain name will be in the ClientHold status, and the domain name cannot be resolved correctly. This topic describes how to verify the email address of a domain holder.

Procedure

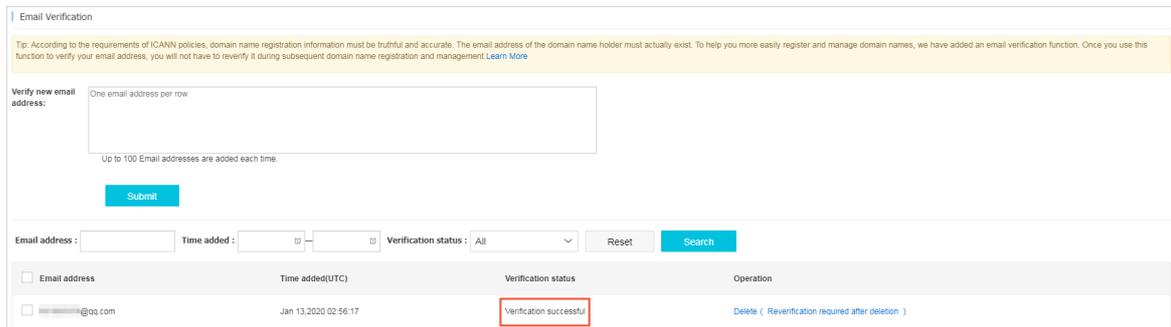
1. Log on to the [Alibaba Cloud Domains console](#).
2. In the left-side navigation pane, click **Email Verification**. Enter the email address in the **Verify new email address** field, and click **Submit**. A verification message is sent to the email address.



3. Sign in to your email account to confirm the verification.



4. After the email address is verified, its status becomes **Verification successful** on the **Email Verification** page.



 **Note**

- You can delete a verified email address. When you delete a verified email address, a verification code is sent to the phone number associated with your Alibaba Cloud account. The verification code is required to confirm the deletion.
- A deleted email address must be verified again by Alibaba Cloud before it can be reused as the email address of a domain holder.

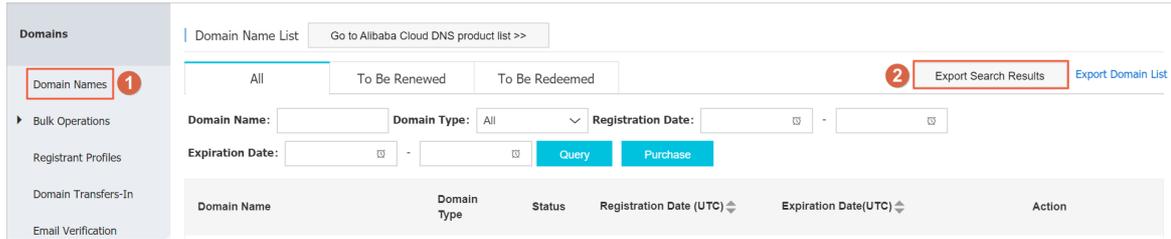
For more information, see [FAQ about email address verification required by ICANN for domain names](#).

6. Export the domain name list

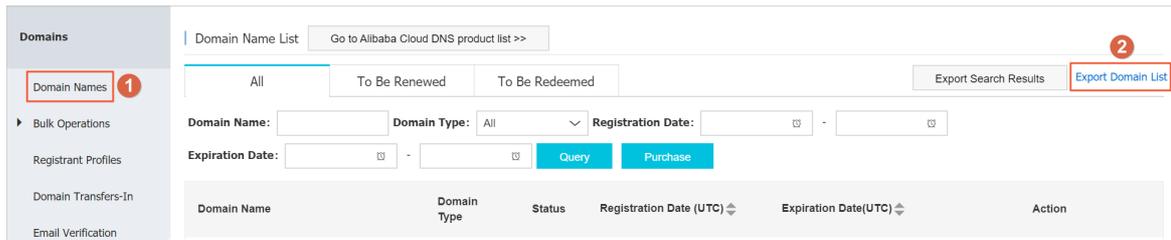
A domain name list contains the domain name type, status, registration date, expiration date, and registrant. You can export the domain name list as needed after the domain name is registered. This topic describes how to export a domain name list.

Procedure

1. Log on to the [Alibaba Cloud Domains console](#).
2. On the **Domain Name List** page, click **Export Search Result**.



3. In the dialog box that appears, set **File Name** and click **Confirm**.
4. On the **Domain Name List** page, click **Export Domain List** to go to the **My Downloads** page.



5. On the **My Downloads** page, check the export progress of the domain name list. If the export is completed, click **Download** to download the domain name list.

7. Use RAM in Domain Name

7.1. Overview

This topic describes how to use Resource Access Management (RAM) for domain resource authorization. If you do not need to use RAM, ignore this topic.

After you use Alibaba Cloud account A to register a domain name, this account has full permissions to perform operations on your domain resources by default. RAM allows you to grant permissions on accessing and managing domain resources of your Alibaba Cloud account to a RAM user.

When you authorize a RAM user to manage domain names, we recommend that you enable the multi-factor authentication (MFA) service for the RAM user to ensure account security. For more information, see [Enable the MFA service for an Alibaba Cloud account](#).

Before using RAM to grant permissions and allocate access domain resources, carefully read [Resource Access Management](#) and the [API reference](#).

7.2. Authorize a RAM user to manage domain names

To implement fine-grained access control and improve account security, you can use Resource Access Management (RAM) to grant management permissions on domain names to RAM users. The authorized RAM users can then manage domain names. This topic describes how to authorize a RAM user to manage domain names.

Prerequisites

A RAM user is created. For more information, see [Create a RAM user](#).

Context

RAM is a resource access control service provided by Alibaba Cloud. You can use RAM to authorize a RAM user to manage your domain names. System policies and custom policies are supported by default. The `AliyunDomainFullAccess` system policy is provided for Alibaba Cloud Domains. You can create a custom policy to provide finer-grained access control if the default system policies cannot satisfy your requirements.

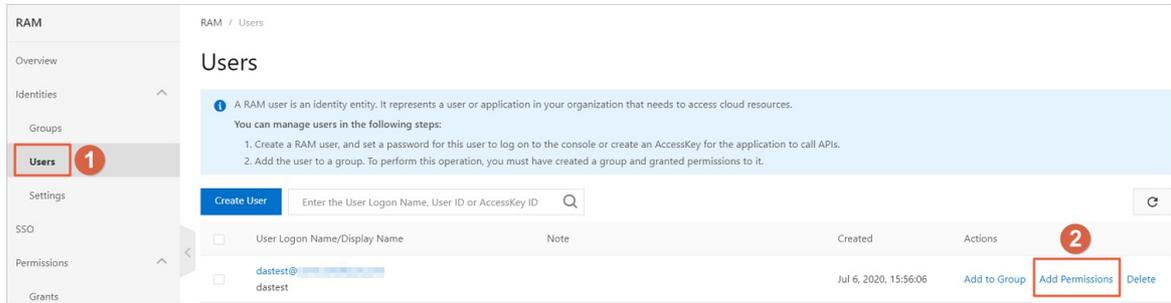
 **Note** This topic describes three custom policies, which are used to grant a RAM user the read and write permissions on all domain names, the read-only permissions on all domain names, and the management permissions on a specific domain name, respectively. For more information about how to create other custom policies, see [Create a custom policy](#).

Grant the read and write permissions to a RAM user

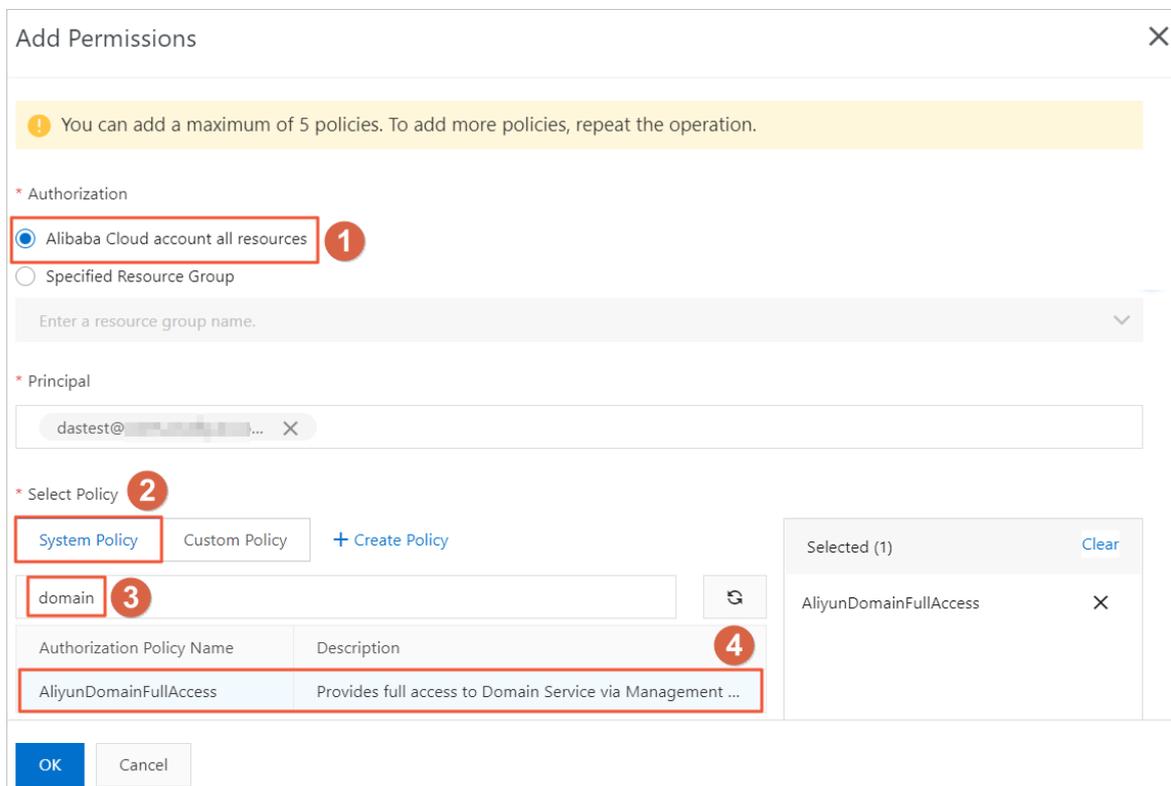
You can use RAM to attach the `AliyunDomainFullAccess` system policy to a RAM user to authorize the user to manage domain names. This is the highest-level permission. The authorized RAM user can manage all domain name resources under the Alibaba Cloud account.

1. Log on to the [RAM console](#) by using your Alibaba Cloud account.
2. [Create a RAM user](#).

3. In the left-side navigation pane, choose **Identities > Users**.
4. In the **User Logon Name/Display Name** column, find the target RAM user.
5. Click **Add Permissions**. In the Add Permissions right-side pane, information is automatically entered in the Principal field.



6. Configure permission policies as required.



- i. Set Authorization to **Alibaba Cloud account all resources**.
 - ii. Set Select Policy to **System Policy**.
 - iii. Enter **domain** in the search box. System policies for the domain name are displayed.
 - iv. Click **AliyunDomainFullAccess** to add the policy to the **Selected** section.
7. Click **OK**.
 8. Click **Complete**.

Grant the read-only permissions to a RAM user

You can use RAM to create a custom policy to grant the read-only permissions on domain names to a RAM user. The authorized RAM user can view domain names of the Alibaba Cloud account, but cannot manage these domain names. Add the following script to the custom policy:

```
{ "Version": "1", "Statement": [ { "Action": [ "domain:Query*" ], "Resource": "acs:domain:*:*:*", "Effect": "Allow" } ] }
```

For more information, see [Create a custom policy](#).

Authorize a RAM user to manage a single domain name

You can use RAM to create a custom policy to authorize a RAM user to manage a single domain name. The authorized RAM user can manage the resources of a domain name such as example.com. Add the following script to the custom policy:

Note

- Only the actions listed in the following script can be authorized. For more information about the authorization rules of each action, see [Authentication rules for the Domains API](#).
- After you attach the custom policy to a RAM user, the RAM user can log on to the [Alibaba Cloud Domains console](#), and view all the domain names under the Alibaba Cloud account but only manage the domain name specified in the custom policy.

```
{ "Version": "1", "Statement": [ { "Action": [ "domain:DnsModification", "domain:SecuritySetting", "domain:RealNameVerificationOperation", "domain:DnsHostModification", "domain:CreateOrderActivate", "domain:CreateOrderRenew", "domain:CreateOrderRedeem", "domain:CreateOrderTransfer", "domain:DomainTransferInOperation", "domain:DomainTransferOutOperation", "domain:QualificationAuditOperation", "domain:EnsSetting", "domain:DnsSecSetting", "domain:SaveArtExtension", "domain:CreateOrderPendingDelete" ], "Resource": "acs:domain:*:*:domain/example.com", "Effect": "Allow" }, { "Action": "domain:Query*", "Resource": "acs:domain:*:*:*", "Effect": "Allow" } ] }
```

For more information, see [Create a custom policy](#).

What's next

Log on to the RAM console as the authorized RAM user. For more information, see [Log on to the Alibaba Cloud Management Console as a RAM user](#).

7.3. Domain actions that can be authorized

This topic describes the domain actions that can be authorized to Resource Access Management (RAM) users.

Domain action	Description	API
Query basic domain name information (QueryCommonInfo)	Queries the domain names under your account by page.	QueryDomainList
	Queries basic information of a domain name by its instance ID.	QueryDomainByInstanceId
	Queries the contact information of a domain name.	QueryContactInfo

Domain action	Description	API
	Verifies the contact information of a domain name.	VerifyContactField
Query domain name logs (QueryChangeLog)	Queries the operations log of a domain name.	QueryChangeLogList
Query domain name tasks (QueryDomainTask)	Queries domain name-related tasks.	QueryTaskList
	Queries historical domain name-related tasks.	QueryTaskInfoHistory
	Queries details about domain name-related tasks.	QueryTaskDetailList
	Queries details about historical domain name-related tasks.	QueryTaskDetailHistory
	Queries details about executed tasks.	PollTaskResult
Update domain name information (DomainInfoModification)	Submits a task for updating domain name information.	SaveSingleTaskForUpdatingContactInfo
	Submits a task for updating information of multiple domain names.	SaveBatchTaskForModifyingDomainDns
	Submits a task for updating domain name information of multiple domain names based on the information of the new holder.	SaveBatchTaskForUpdatingContactInfoByNewContact
	Submits a task for deleting a DNS host.	SaveSingleTaskForDeletingDnsHost
Query email verification (QueryEmailVerification)	Queries email verification.	ListEmailVerification
Operations related to email verification (EmailVerificationOperation)	Deletes a verified email address.	DeleteEmailVerification
	Verifies an email token.	VerifyEmail
	Re-sends a verification email.	ResendEmailVerification
	Submits an email verification request.	SubmitEmailVerification
	Checks whether a domain name can be transferred to Alibaba Cloud.	CheckTransferInFeasibility

Operation	Description	API
Query domain name transfer-in information (QueryDomainTransferIn)	Queries the domain name transfer-in information by instance ID.	QueryTransferInByInstanceId
	Queries the domain name transfer-in information.	QueryTransferInList
Check domain name transfer-in by email (TransferInCheckMailToken)	Verifies the token sent to the email address of the domain holder.	TransferInCheckMailToken
Transfer a domain name to Alibaba Cloud (DomainTransferInOperation)	Re-enters the transfer key to transfer a domain name to Alibaba Cloud.	TransferInReenterTransferAuthorizationCode
	Verifies the email address for domain name transfer-in.	TransferInRefetchWhoisEmail
	Re-sends the verification email to transfer a domain name to Alibaba Cloud.	TransferInResendMailToken
	Submits a task for canceling the transfer-in request of a domain name.	SaveSingleTaskForCancelingTransferIn
Query domain name transfer-out (QueryDomainTransferOut)	Queries the transfer-out information of a domain name.	QueryTransferOutInfo
Transfer a domain name from Alibaba Cloud (DomainTransferOutOperation)	Submits a task for canceling the transfer-out request of a domain name.	SaveSingleTaskForCancelingTransferOut
	Submits a task for querying the domain name transfer key.	SaveSingleTaskForQueryingTransferAuthorizationCode
Change the DNS host of a domain name (DnsHostModification)	Submits a task for creating a DNS host.	SaveSingleTaskForCreatingDnsHost
	Submits a task for changing a DNS host.	SaveSingleTaskForModifyingDnsHost
	Submits a task for synchronizing DNS host information.	SaveSingleTaskForSynchronizingDnsHost
Query the DNS host of a domain name (DnsHostQuery)	Queries the DNS host of a domain name.	QueryDnsHost
DNS settings (DnsModification)	Submits a task for changing the DNS servers of multiple domains.	SaveBatchTaskForModifyingDomainDns

Domain action	Description	API
Security settings (SecuritySetting)	Submits a task for enabling the transfer prohibition lock for a domain name.	SaveSingleTaskForTransferProhibitionLock
	Submits a task for enabling the transfer prohibition lock for multiple domain names.	SaveBatchTaskForTransferProhibitionLock
	Submits a task for enabling the update prohibition lock for a domain name.	SaveSingleTaskForUpdateProhibitionLock
	Submits a task for enabling the update prohibition lock for multiple domain names.	SaveBatchTaskForUpdateProhibitionLock
Operations related to registrant profiles (RegistrantProfileOperation)	Creates or saves a registrant profile.	SaveRegistrantProfile
	Deletes a registrant profile.	DeleteRegistrantProfile
Query registrant profiles (QueryRegistrantProfile)	Queries the registrant profiles under your account.	QueryRegistrantProfiles
Acknowledge task results (AcknowledgeTaskResult)	Acknowledges task details.	AcknowledgeTaskResult

7.4. Domain resource types that can be authorized

This topic describes the domain resource types that can be authorized.

The following table describes the domain resource types that can be authorized in Resource Access Management (RAM).

Resource type	Resource description in the authorization policy	Description
Domain	acs:domain:*:\$accountId:* acs:domain:*:\$accountId:domain/\$domainName	Authorize a RAM user to manage your domain names, such as domain information modification (for transferring to another account), real-name verification, Domain Name System (DNS) server configuration, security configuration, and domain name transfer.

7.5. Authentication rules for the Domains API

A Resource Access Management (RAM) user must be subject to authentication rules when requesting access to the domain resources of the Alibaba Cloud account by using the Domains API. This topic describes the authentication rules for the Domains API.

When a RAM user requests access to the domain resources of an Alibaba Cloud account by using the Domains API, Domains sends a request to the RAM user for authentication. This is to ensure that the RAM user is authorized by the resource owner to access the resources.

For each Domains API operation, the resources to check are determined by the involved resources and the semantics of the API operation. The following table lists the authentication rules for each API operation.

 **Note** \$accountid indicates the account ID. You can log on to your [Alibaba Cloud account](#) to view the account ID.

Resource-level authorization

Operation	Authenticated action	Resource
SaveSingleTaskForUpdatingContactInfo	domain:DomainInfoModification	acs:domain:*:\$accountid:domain/\$domainName
SaveBatchTaskForUpdatingContactInfo		acs:domain:*:\$accountid:domain/\$domainName
TransferInReenterTransferAuthorizationCode	domain:DomainTransferInOperation	acs:domain:*:\$accountid:domain/\$domainName
TransferInRefreshWhoisEmail		acs:domain:*:\$accountid:domain/\$domainName
TransferInResendMailToken		acs:domain:*:\$accountid:domain/\$domainName
SaveSingleTaskForCancelingTransferIn		acs:domain:*:\$accountid:domain/\$domainName
SaveSingleTaskForCancelingTransferOut	domain:DomainTransferOutOperation	acs:domain:*:\$accountid:domain/\$domainName
SaveSingleTaskForQueryingTransferAuthorizationCode		acs:domain:*:\$accountid:domain/\$domainName
SaveSingleTaskForModifyingDnsHost		acs:domain:*:\$accountid:domain/\$domainName
SaveSingleTaskForCreatingDnsHost		acs:domain:*:\$accountid:domain/\$domainName

Operation	Authenticated action	Resource
SaveSingleTaskForSynchronizingDnsHost	domain:DnsHostModification	acs:domain:*\$accountid:domain/\$domainName
SaveSingleTaskForDeletingDnsHost		acs:domain:*\$accountid:domain/\$domainName
SaveBatchTaskForModifyingDomainDns	domain:DnsModification	acs:domain:*\$accountid:domain/\$domainName
SaveSingleTaskForTransferProhibitionLock	domain:SecuritySetting	acs:domain:*\$accountid:domain/\$domainName
SaveBatchTaskForTransferProhibitionLock		acs:domain:*\$accountid:domain/\$domainName
SaveSingleTaskForUpdateProhibitionLock		acs:domain:*\$accountid:domain/\$domainName
SaveBatchTaskForUpdateProhibitionLock		acs:domain:*\$accountid:domain/\$domainName

Operation-level authorization

Operation	Authenticated action	Resource
QueryDomainList	domain:QueryCommonInfo	acs:domain:*\$accountid:*
QueryDomainByInstanceId		acs:domain:*\$accountid:*
QueryContactInfo		acs:domain:*\$accountid:*
VerifyContactField		acs:domain:*\$accountid:*
QueryTaskList	domain:QueryDomainTask	acs:domain:*\$accountid:*
QueryTaskInfoHistory		acs:domain:*\$accountid:*
QueryTaskDetailList		acs:domain:*\$accountid:*
QueryTaskDetailHistory		acs:domain:*\$accountid:*
PollTaskResult		acs:domain:*\$accountid:*
QueryChangeLogList	domain:QueryChangeLog	acs:domain:*\$accountid:*
QueryTransferInByInstanceId	domain:QueryDomainTransferIn	acs:domain:*\$accountid:*
QueryTransferInList		acs:domain:*\$accountid:*
CheckTransferInFeasibility		acs:domain:*\$accountid:*

Operation	Authenticated action	Resource
TransferInCheckMailToken	domain:TransferInCheckMailToken	acs:domain:*\$accountid:*
QueryTransferOutInfo	domain:QueryDomainTransferOut	acs:domain:*\$accountid:*
QueryDnsHost	domain:QueryDnsHost	acs:domain:*\$accountid:*
QueryRegistrantProfiles	domain:QueryRegistrantProfile	acs:domain:*\$accountid:*
ListEmailVerification	domain:QueryEmailVerification	acs:domain:*\$accountid:*
AcknowledgeTaskResult	domain:AcknowledgeTaskResult	acs:domain:*\$accountid:*
SaveRegistrantProfile	domain:RegistrantProfileOperation	acs:domain:*\$accountid:*
DeleteRegistrantProfile		acs:domain:*\$accountid:*
DeleteEmailVerification	domain:EmailVerificationOperation	acs:domain:*\$accountid:*
VerifyEmail		acs:domain:*\$accountid:*
ResendEmailVerification		acs:domain:*\$accountid:*
SubmitEmailVerification		acs:domain:*\$accountid:*

Service-level authorization

Operation	Authenticated action	Resource
*	domain:*	acs:domain:*\$accountid:*