Container Registry

FAQs

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Activate an account

Container Registry console provides multi-region secure image hosting capability. You must set a password that is independent of Alibaba Cloud account system as the logon credentials on the Container Registry console to facilitate uploading and downloading images.

Initialization code

When you activate Container Registry for the first time and log on to the Container Registry console, you must set a password that is independent of the Alibaba Cloud account system. This password is used as the Container Registry console logon credentials to facilitate the uploading and downloading of images. Subsequently, you can change your Container Registry logon password by verifying your mobile phone number.

> Note:
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> If you are using a subaccount for the first time, make sure that the primary account has been activated and set the Registry logon password.

FAQs about Docker client

Docker logon failure

Mainly troubleshoot the following two issues:

> The logon password of Alibaba Cloud account is used, instead of the independent logon password of Registry. The Registry logon password is configured and modified in the Container Registry console.

If you use sudo for logon, make sure you first enter the Linux user password, instead of the Registry logon password. The Linux user password usually allows you to try at most three times and prompts try again when the password is wrong. However, the Docker client exits after you enter the wrong Registry logon password once and returns the following error:

Error response from daemon: Get https://registry.cn-hangzhou.aliyuncs.com/v2/: unauthorized: authentication required

Docker pull failure

The system prompts Error: image xxx not found.

If you want to download images from a public repository, the error is caused due to the incorrect image URL. Search for this public repository in the console and check if the image version to be downloaded exists.

If you want to download images from a private repository, check your Registry logon status first.

Run cat ~/.docker/config.json to view all the domain names of the logged on Registries. Check if the domain name of the Registry that you want to download images is in the list. If not, log on to the relevant Registry by following the preceding instructions. If you already log on to the Registry, check if your logon account has permissions to download the image. Sub-accounts do not have any permission by default.

The system prompts Error: filesystem layer verification failed for digest.

This error indicates the downloaded block files failed to be verified, which occurs in rare cases. Generally, you can fix it by trying again.

Docker push failure

The system prompts denied: requested access to the resource is denied.

The troubleshooting steps are roughly the same as those for Docker pull failure. The only difference is that a higher authorization level is required in this case.

Source code repository

Container Registry console allows you to build images using a source code repository (Github/Bitbucket/GitLab) and supports automatically building the image after the source code is modified. This article summarizes the problems you might encounter with this feature and provides the solutions.

How to unbind source code repository Github/Bitbucket/GitLab or bind another account?

Source code repository Github/Bitbucket

Log on to the source code repository and revoke the authorization to Alibaba Cloud Container Registry on the settings page.
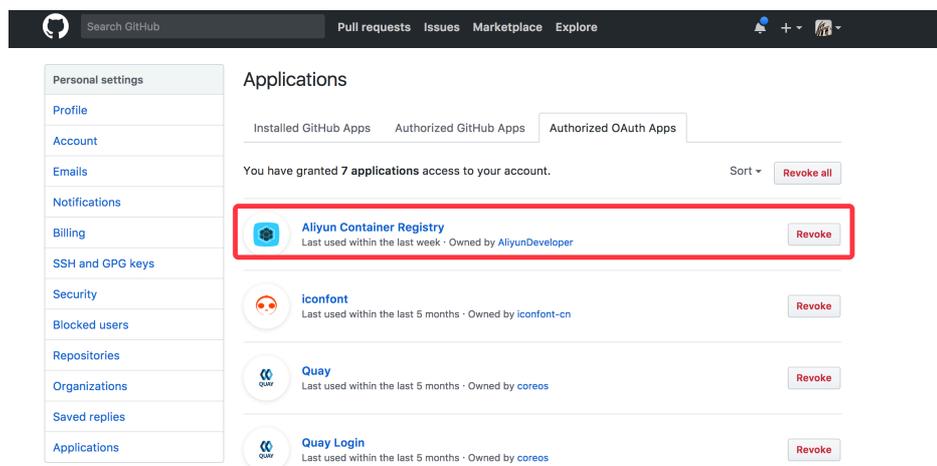
Source code repository GitLab

Log on to the source code repository and revoke the token bound previously on the settings page.
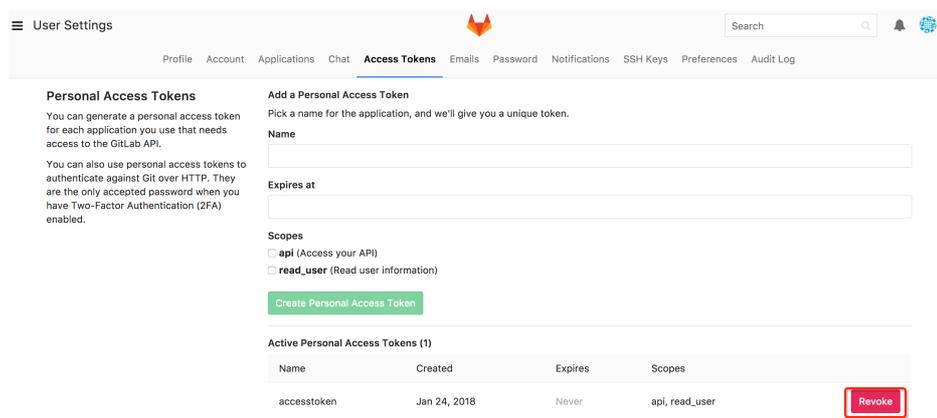
GitLab source code repository

GitLab source code repository

Container Registry allows you to create a GitLab source code repository and access the repository through GitLab API V3 or V4. This topic describes the procedure for creating a GitLab source code repository in Container Registry.

1. Obtain a GitLab access token

Before binding Container Registry to your GitLab account, you must obtain a GitLab access
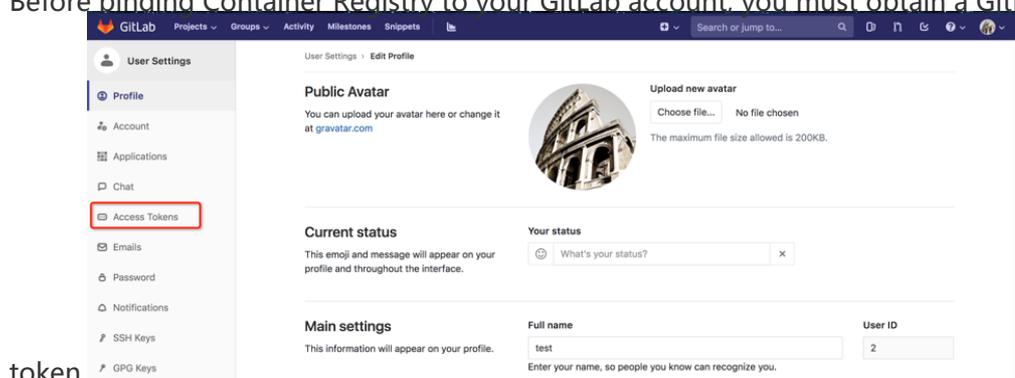
token.

In Scopes, select api for the access token. This operation is required because Container Registry needs to obtain the source code repository information and set hooks to trigger automatic build. If the access token has insufficient permissions, you fail to create a GitLab source code repository in Container Registry. In addition, pay attention to the expiration time of the access token to ensure that it is valid in use.
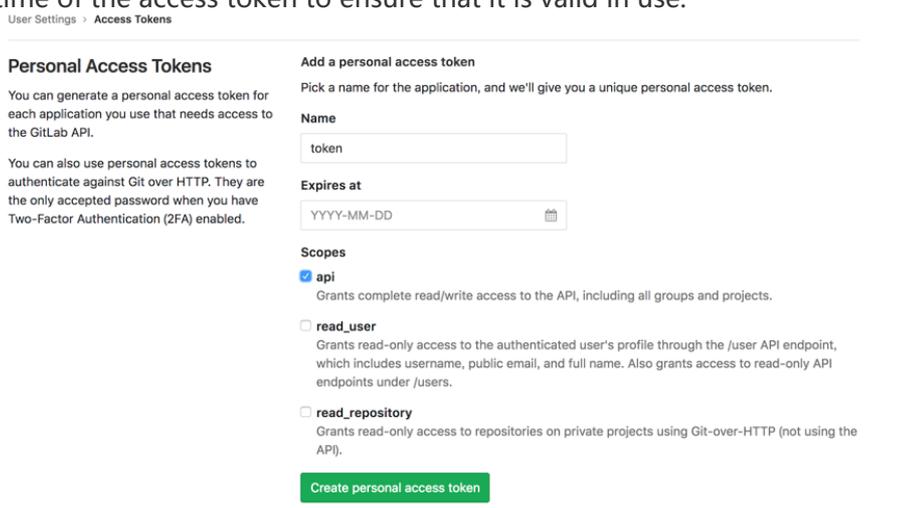
2. Bind Container Registry to your GitLab account

- Go to the Container Registry console and choose Default Instance > Code Source. On the Code Source page, click Bind Account for GitLab. In the Private GitLab dialog box that appears, set parameters and click Bind Account.
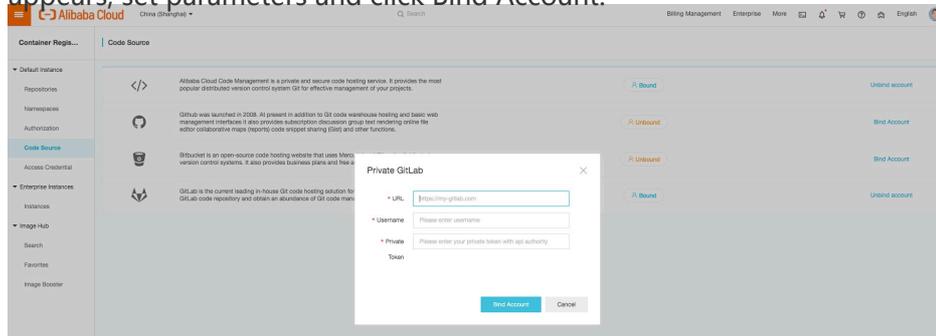
URL: Enter the URL of your self-built GitLab, such as **https://my-gitlab.com**. Do not enter the URL of a specific repository.

Username: Enter the username on GitLab. To obtain the username, click your avatar on GitLab in the upper-right corner, as shown in the following figure. The username is also the credential used to log
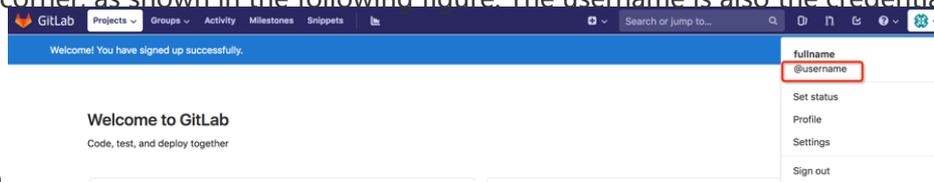
on to GitLab.

Private Token: Enter the access token obtained in step 1.

Note: Currently, Container Registry does not support access to GitLab behind the firewall or with a self-signed HTTPS certificate. Ensure that GitLab is accessible through the Internet.

3. Create a GitLab source code repository

Each account can have a maximum of 100 GitLab source code repositories. You can select a namespace and a repository name from the drop-down lists or enter them directly.
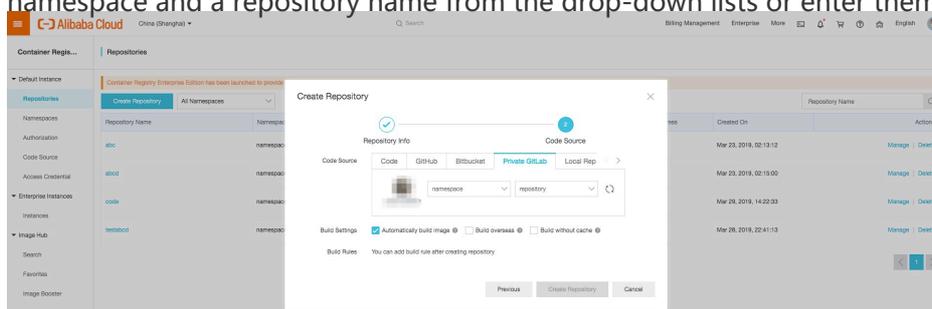
Troubleshooting

1. What should I do if I receive the error message "Failed to access the source code repository site. Please confirm that the account binding information is correct, or try again later."?

The possible causes for the error are as follows: (1) GitLab does not respond to your access request. To resolve the problem, ensure that GitLab is accessible through the Internet. Ensure that the firewall is disabled and no self-signed HTTPS certificate is used to access GitLab. In addition, ensure that the account binding information including the GitLab URL, username, and private token is correct. (2) Your GitLab access request times out due to network exceptions. In this case, you can try again later.

1. What should I do if I receive the error message "The source code repository site returns an error response. Please confirm that the account binding information is correct."?

The common symptom is that the connection to GitLab is normal but GitLab returns an error code upon a service request. To resolve the problem, ensure that the following conditions are met: (1) The access token has been granted complete read/write access to the GitLab API and has not expired. (2) Your source code account has the permission to set hooks. Ensure that the account has the permission to navigate to Settings > Integrations under the specified repository on GitLab.