Container Registry

FAQs

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FAQs

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:

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.

Search GitHub	Pull requests Issues Marketplace Explore	+ • 🏼 🎆 •
Personal settings	Applications	
Profile		
Account	Installed GitHub Apps Authorized GitHub Apps Authorized OAuth Apps	
Emails	You have granted 7 applications access to your account.	Sort - Revoke all
Notifications		
Billing	Aliyun Container Registry Last used within the last week - Owned by AliyunDeveloper	Revoke
SSH and GPG keys		
Security	iconfont	Pevoke
Blocked users	Last used within the last 5 months · Owned by iconfont-cn	NO OKC
Repositories	\frown	
Organizations	Cover Clast used within the last 5 months - Owned by coreos	Revoke
Saved replies		
Applications	Quay Login Last used within the last 5 months - Owned by coreos	Revoke

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	bindina Contain ♦ GitLab Projects ⊂ Groups ⊂ Act	er Reaistry to you	r GitLab a	CCOUNT, VOI	u must	obtain	a GitLa	b acces	SS
	User Settings	User Settings > Edit Profile							
	Profile	Public Avatar	Upload new avatar						
	a Account	You can upload your avatar here or change it at gravatar.com		The maximum file size allowe	d is 200KB.				
	题 Applications								
P Chat	P Chat								
	Access Tokens	Current status	Your status						
	🖾 Emails	This emoji and message will appear on your	What's your status? ×						
	Password	profile and throughout the interface.							
	Notifications								
	₽ SSH Keys	Main settings This information will appear on your profile.	test 2			2			
token.	₱ GPG Keys		Enter your name, so people	you know can recognize you.					

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.

Personal Access Tokens	Add a personal access token						
You can generate a personal access token for	Pick a name for the application	n, and we'll give you a unique personal access token.					
the GitLab API.	Name						
You can also use personal access tokens to	token						
authenticate against Git over HTTP. They are	Expires at						
Two-Factor Authentication (2FA) enabled.	YYYY-MM-DD	<u> </u>					
	Scopes						
	Grants complete read/write	e access to the API, including all groups and projects.					
	Grants read-only access to which includes username, p endpoints under /users.	o the authenticated user's profile through the /user API endpoint, public email, and full name. Also grants access to read-only API					
	Grants read-only access to API).	o repositories on private projects using Git-over-HTTP (not using					
	Create personal access toker	en					

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

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Container Regis	Code Source													
* Default Instance														
Repositories		Albaba Cloud Code Management is a private and secure code host popular distributed version control system Git for effective manager	ting service. It provides t ment of your projects.	the most		A Bound						Unbi	nd account	
Namespaces	-	Github was launched in 2008. At present in addition to Git code war	rehouse hosting and bas	sic web										
Authorization	Ģ	management interfaces it also provides subscription discussion gro editor collaborative maps (reports) code snippet sharing (Gist) and c	up text rendering online other functions.	i file		A Unbound						Bin	1 Account	
Code Source		Bitbucket is an open-source code hosting website that uses Merci.												
Access Credential	9	version control systems. It also provides business plans and free a	Private GitLat	b	×							80	Accourt	
* Enterprise Instances	444	GitLab is the current leading in-house Git code hosting solution for Git ab code repository and childin an abustiance of Git code man	· 101			A Bound						Unbi	nd account	
Instances	*													
▼ Image Hub			* Username	Please enter username	_									
Search			* Private	Please enter your private token with epi author	tty.									
Favorites			Token											
Image Booster														
				Bind Account	Cancel									

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 <u>corner</u>, as shown in the following figure. The username is also the credential used to log

🤟 Gi	itLab Projects - Groups - Activity Milestones Sni	ippets E	۵ ~	Search or jump to	۹	Ø	n	ß	0 ~	8
	Welcome! You have signed up successfully.					fulln	ame			
						@use	rname	3		
						Set s	atus			
	Welcome to GitLab					Profil	e			
	Code, test, and deploy together					Settir	igs			
itl ab						Sign	out			

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.

Container Regis	Repositories						
✓ Default Instance	Container Registry Enterprise Edition has been launched to provide						
Repositories	Create Repository All Namespaces V	Create Repository	×		Bi	apository Name	Q
Namespaces	Repository Name Namespa	2	205	Crea	ated On		Actions
Authorization	abo namespac	Repository Info Code Source		Mari	23, 2019, 02:13:12	M	stage Delete
Code Source	abcd namesoac	Code Bource Code GitHub Bitbucket Private GitLab Local Rep <>		Mar ;	23, 2019, 02:15:00	M	anapa Dekto
Enterprise Instances		namespace V repository V Q					
Instances	oode namespac			Mar :	29, 2019, 14:22:33	M	anage Dekte
▼ Image Hub	testabod namespac	Build Sattings 🧧 Automatically build image 🕘 🗌 Build overseas 🕘 🗌 Build without cache 🖗		Mari	28, 2019, 22:41:13	м	snage Delete
Search		Build Rules You can add build rule after creating repository	- 1				< 1 N
Favorites							
Image Booster		Previous Create Repository Cano	el				
			_				

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.

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T	> Integrations Settings												
	Integrations	URL											
Repository	Webhooks can be used for binding events	http://example.com/trigger-cl.json Secret Token											
	project.												
() Issues ()													
1 Merge Requests 0		Use this token to validate received payloads. It will be sent with the request in the X-Gitlab-Token HTTP header.											
🖋 CI/CD		Trigger											
G Operations		Push events This URL will be triggered by a push to the repository											
🗂 Wiki		Branch name or wildcard pattern to trigger on (leave blank for all)											
a Snippets		Tag push events This URL will be triggered when a new tag is pushed to the repository											
Settings		○ Comments											
General		This URL will be triggered when someone adds a comment											
Members		Confidential Comments This URL will be triggered when someone adds a comment on a confidential issue											
Integrations		Issues events											
Repository		Destidantial lower swate											
CI / CD		Contidential issues events This URL will be triggered when a confidential issue is created/updated/merged											
		 Merge request events This URL will be triggered when a merge request is created/updated/merged 											
Collapse sidebar		Job events This URL will be triggered when the iob status changes											