Tencent Kubernetes Engine Access Management Product Documentation



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Access Management Overview

Last updated : 2019-09-18 17:53:40

If you use Tencent Kubernetes Engine (TKE), and have multiple users managing and sharing your Tencent Cloud account password, you may encounter the following issues:

- Your password is shared by multiple users, leading to high risk of compromise.
- You cannot restrict the access permissions of others, exposing the system to faulty operations that lead to security risks.

To resolve the problems described above, you can use different sub-accounts to implement the management of different projects by different people. By default, sub-accounts do not have permission to use TKE. To do so, you need to create a policy that permits sub-accounts to have all the permissions they need.

Overview

Cloud Access Management (CAM) by Tencent Cloud is a permission and user management system designed for secure and precise products management and access. By using CAM, you can create, manage, and terminate users (groups), and control what actions users and roles can perform and what resources they can access by identity and policy management.

When you use CAM, you can associate a policy with a user or a user group. Policies can allow or forbid users to use the specified resources to complete the specified tasks. For more basic information about CAM policies, see <u>Element Reference</u>. For more information about using CAM policies, see <u>Policies</u>.

If you do not need to manage the access permission to CAM-related resources for sub-accounts, you can skip this chapter. This will not affect your understanding and usage of other parts in this document.

Getting Started

A CAM policy allows or prohibit the use of one or more TKE operations, or must forbid the use of one or more TKE operations. At the same time, it is also necessary to specify the resources that can be



operated (you can specify all resources, or some operations can specify some resources). Policies also can contain conditions for operating resources.

Some TKE APIs do not support resource-level permissions, meaning that, when calling these APIs, you cannot specify specific resources for the operations. Instead, you must specify all resources for the operations.

TKE Resource-level Permission API List

Last updated : 2020-04-26 16:18:04

With resource-level permissions, you can specify the resources that a user can operate on. TKE (formerly CCS) supports some resource-level permissions, where for certain TKE operations, you can control the operations that the user is allow to perform (based on the conditions that must be met) or the resources that the user can use.

The following table describes the types of resources that can be authorized in TKE.

Resource Type	Resource Description Method in the Authorization Policy
Cluster resources	<pre>qcs::ccs:\$region::cluster/*</pre>

The following table describes the TKE (Tencent Kubernetes Engines) API operations that currently support resource-level permissions. You can use the wildcard (*) when specifying a resource path.

Notes:

Only the TKE API operations listed here support resource-level permissions. You can still authorize a user to perform a TKE API operation that does not support resource-level permissions, but you must specify the resource element in the policy statement with the asterisk (*).

API Operation	Resource Path
DescribeClusterService	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId
DescribeClusterServiceInfo	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId

API Operation	Resource Path			
CreateClusterService	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId CLB resource qcs::clb:\$region:\$account:clb/* CBS resource qcs::cvm:\$region:\$account:volume/* qcs::cvm:\$region:\$account:volume/\$diskId			
ModifyClusterService	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId CLB resource qcs::clb:\$region:\$account:clb/* CBS resource qcs::cvm:\$region:\$account:volume/* qcs::cvm:\$region:\$account:volume/\$diskId			
DeleteClusterService	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId			
ModifyServiceDescription	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId			
DescribeServiceEvent	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId			
ResumeClusterService	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId			
PauseClusterService	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId			
RollBackClusterService	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId			

API Operation	Resource Path
ModifyClusterServiceImage	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId
RedeployClusterService	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId
DescribeServiceInstance	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId
ModifyServiceReplicas	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId
DeleteInstances	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId
DescribeClusterNameSpaces	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId
CreateClusterNamespace	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId
DeleteClusterNamespace	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId
DescribeCluster	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId
CreateCluster	CVM resource qcs::cvm:\$region:\$account:instance/*
DeleteCluster	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId



API Operation	Resource Path			
DescribeClusterInstances	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId			
AddClusterInstances	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId CVM resource qcs::cvm:\$region:\$account:instance/*			
DeleteClusterInstances	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId CVM resource qcs::cvm:\$region:\$account:instance/* qcs::cvm:\$region:\$account:instance/\$instanceId			
AddClusterInstancesFromExistedCvm	Cluster resource qcs::ccs:region:account:cluster/* qcs::ccs:region:account:cluster/\$clusterId CVM resource qcs::cvm:\$region:\$account:instance/* qcs::cvm:\$region:\$account:instance/\$instanceId			

TKE Image Registry Resource-level Permission Settings

Last updated : 2020-01-02 11:52:26

Overview of the TKE Image Service Permissions

The address format for TKE image is as follows: ccr.ccs.tencentyun.com/\${namespace}/\${name}:\${tag} . The following fields are required for configuring the permissions of an image repository:

- \${namespace} : The namespace to which the image repository belongs.
- \${name} : The name of the image repository.

Note:

Do not include slashes (/) in the namespace \${namespace} and the image name \${name}. The \${tag} field currently is only for authenticating the permissions for deleting. For more information, see Image Tag Permissions.

\${namespace} and \${name} fields allow you to develop detailed permission schemes for managers to flexibly manage access permissions. For example:

- Permit collaborator A to pull images
- Forbid collaborator A from deleting images
- Forbid collaborator B from pulling images in namespace ns1

If you do not need to manage image repository permissions in detail, you can use Presetting Policy Authorization.

If you need to manage image repository permissions in detail, use Customizing Policy Authorization. The TKE image service utilizes Cloud Access Management (CAM) to manage access permissions. You can learn more about how to use CAM here:

- User management
- Policy management
- Authorization management

Preset Policy Authorization

To simplify TKE image service permission management, the TKE image service has two preset policies:

• Image repository (CCR) full read/write permission

The preset policy configures all the permissions of the TKE image service. If the collaborator is associated with the preset policy, they will have the same image repository permissions as the administrator. For more information, see Permissions List.

• Image repository read-only permission

This preset policy includes only the read-only permission for the TKE image service. If a collaborator is **only** associated with this policy in the TKE image service, the following operations will be prohibited:

- Pushing an image using docker push
- Creating an image repository namespace
- Deleting an image repository namespace
- Creating an image repository
- Deleting an image repository
- Deleting an image tag

For information about how to associate a preset policy with a collaborator, see the following CAM documents: Preset Policy Overview and Associating a User with a Preset Policy.

Custom Policy Authorization

With a custom policy, the manager can associate different permissions with different collaborators. Take the following factors into account when assigning permissions:

- resource: Which Image Registries are associated with this permission policy. For example, all Image Registries are described as qcs::ccr:::repo/*. For more information, see CAM Resource Description Method.
- **action**: What operations, such as deleting and creating, this permission policy allows the collaborators to perform on the **resource**. The operations are usually described using APIs.
- **effect**: Whether this permission policy allows collaborators to perform such operations.

When you have planned the permission settings, you can assign the permissions. The following example shows how to permit collaborators to create an image repository:

1. Create a custom policy (see the CAM document).

- 2. Log in to the Tencent Cloud Console using your developer account.
- 3. Go to the CAM custom policy management page and click **Create a custom policy** to open the

Select a policy creation method dialog box. This is shown in the following figure:

Select a n	nethod to create policy	×
5	Create by policy generator Select services and operations from the list to automatically generate policy syntax	>
	Create by Policy Syntax Compile policy syntax to create related policy	>
II.	Authorize by tag Resources that have certain type of tag attribute are quickly authorized to users and user groups	>

4. Select Create by Policy Syntax>Blank Template.

Create by	Policy Syntax			
Select polic	cy template > 2	Edit Policy		
Template Type:	All Templates 🔹	Search policy name		Q
Select templat	e type			
All Templates	(267 items in total)			
O Bla	ank Template Custom		0	AdministratorAccess System This policy allows you to manage all users under your account and their permissions, financial information and cloud assets.
De	adOnlyAccess System			

- 5. Click **Next Step** to enter the **Edit Policy** page.
- 6. Set the policy name, and enter the following content into the **Edit Policy Content** editing box.

```
{
    "version": "2.0",
    "statement": [{
    "action": "ccr:CreateRepository",
    "resource": "qcs::ccr:::repo/*",
    "effect": "allow"
}]
}
```



For example, set the policy name to ccr-policy-demo , as shown in the following figure:

cy Name *	ccr-policy-demo
es	G
t Policy Content	
1 { 2 3 4 5 6 7 8 }	<pre>"version": "2.0", "statement": [{ "action": "ccr:CreateRepository", "resource": "qcs::ccr:::repo/*", "effect": "allow" }]</pre>
icy Syntax Descrip	otion 🖪 Support service list 🖪

At the **end** of "resource", use * to indicate that an image repository can be created under any namespace.

6. Click **Create Policy** to complete the policy creation process.

Policy	Custom Policy *				
		Create Custom Policy Delete			Support search by policy ${\tt Q}$
		Policy Name	Description	Service Type 🔻	Operation
		ccr-policy-demo	-	-	Delete Bind User/Gr
		CDNTopData	-		Delete Bind User/Gr



7. Associate a custom policy. After the policy (ccr-policy-demo) is created in step 1, you can associate it with any collaborator. For more information, see the CAM Documentation. After the policy has been associated, the collaborators have create image repository permissions in any namespace.

_resource qcs::ccr:::repo/* Format description:

- qcs::ccr::: is a fixed format, indicating the developer's TKE image repository service.
- repo is a fixed prefix, representing the resource type, which is an image repository here.
- * after the slash (/) means matching all image repositories.

For a detailed description of resource, see CAM Resource Description Method.

Authorizing by Resource

You can authorize multiple resources at the same time. For example, **to allow deletion of image repositories in namespace foo and bar**, you can create the following custom policy:

```
{
    version": "2.0",
    "statement": [{
    "action": [
    "ccr:BatchDeleteRepository",
    "ccr:DeleteRepository"
],
    "resource": [
    "qcs::ccr:::repo/foo/*",
    "qcs::ccr:::repo/bar/*"
],
    "effect": "allow"
}]
}
```

- foo/* in qcs::ccr:::repo/foo/* means all images in the image repository namespace
 foo .
- bar/* in qcs::ccr:::repo/bar/* means all images in the image repository namespace bar .

Authorizing by Action (API)

You can configure multiple actions for a resource for a centralized management of resource permissions. For example, to **permit the creation, deletion and pushing of image repository**

in the namespace foo, you can create the following custom policies:

```
{
    "version": "2.0",
    "statement": [{
    "action": [
    "ccr:CreateRepository",
    "ccr:BatchDeleteRepository",
    "ccr:DeleteRepository",
    "ccr:push"
],
    "resource": "qcs::ccr:::repo/foo/*",
    "effect": "allow"
}]
}
```

Permission List

Docker Client Permissions

```
resource : qcs::ccr:::repo/${namespace}/${name}
action:
```

- ccr:pull : Use the Docker command line to pull an image
- ccr:push : Use the Docker command line to push an image

Namespace Permissions

```
resource: qcs::ccr:::repo/${namespace}
action:
```

- ccr:CreateCCRNamespace Create an image repository namespace
- ccr:DeleteUserNamespace Delete an image repository namespace



Function Guide: **TKE** > Left sidebar **Image Repositories** > **My Images** > **Namespaces**.

Image Repositories	Default region (inclu *				
Image Repositories	Namespace				
		Create			Please enter a name Q
		Namespace	Number of Repositories	Creation Time	Operation
		forrester	2	2019-06-05 16:48:46	Delete
		donie	3	2018-11-14 18:05:01	Delete
		ns_xmo	4	2018-09-28 11:05:47	Delete
		kiyor_1	1	2018-01-28 18:19:29	Delete
		james	1	2017-10-17 08:54:48	Delete
		Total items: 5		Records per page 20 * H 4 1	/1 pages ▷ ⊨

Image Repository Permissions

```
resurce: qcs::ccr:::repo/${namespace}/${name} action:
```

- ccr:CreateRepository Create an image repository
- ccr:DeleteRepository Delete an image repository
- ccr:BatchDeleteRepository Batch delete image repositories
- ccr:GetUserRepositoryList View the list of image repositories

Function Guide: **TKE** > Left sidebar **Image Repositories** > **My Images** > **My Images**.

Image Repositories	Default region (inclu *						
Image Repositories	Namespace						
		Create Delete Reset password	Source Authoriza	tion			Enter image name Q
		Name	Туре	Namespace ^T	Image Address	Creation Time	Operation
		kube-state-metrics	Public	donie	ccr.ccs.tencentyun.com/donie/kube- state-metrics	2018-11-15 15:59:50	Delete Build Config
		sysbench-mo	Private	ns_xmo	ccr.ccs.tencentyun.com/ns_xmo/sysbenc h-mo	2019-06-10 14:25:34	Delete Build Config
		e e webapp	Private	forrester	ccr.ccs.tencentyun.com/forrester/webap p	2019-06-05 16:48:59	Delete Build Config
		U rigiltest	Private	forrester	ccr.ccs.tencentyun.com/forrester/virgiltes t	2019-06-05 17:29:06	Delete Build Config
		img-repo-ns-xmo	Private	ns_xmo	ccr.ccs.tencentyun.com/ns_xmo/img- repo-ns-xmo	2019-02-02 09:46:27	Delete Build Config

Note:

If you want to prevent a collaborator from deleting certain images, configure multiple actions.



For example, to prohibit deleting any image repository:

```
{
    "version": "2.0",
    "statement": [{
    "action": [
    "ccr:BatchDeleteRepository",
    "ccr:DeleteRepository"
],
    "resource": "qcs::ccr:::repo/*",
    "effect": "deny"
}]
}
```

Image Tag Permissions

resource: qcs::ccr:::repo/\${namespace}/\${name}:\${tag} action: ccr:DeleteTag Delete image tag permissions

Function Guide: **TKE** > Left sidebar **Image Repositories** > **My Images** > **My Images** > Click an image name > **Image Tag** page.

donie/kube-state	te-metrics							
Image Tag Image	e Details	Building Images	Trigger					
			Instruction Delete				\$	set to auto-delete images
			Image Tag	Creation Time	Modification Time	Image ID (SHA256)	Size	Operation
			latest	2018-11-15 16:01:23	2018-11-15 16:01:23 +080	sha256:ef29ad3b342e55542ced83f2e00ab08494c58a0a1359f2f5ef1c8c973b	9 MB	Delete Copy
			Total items: 1			Records per page 20 * H	< 1	/1 pages → H

Usage Examples Configuring a Sub-account's Administrative Permissions to a Single TKE Cluster

Last updated : 2019-07-19 17:54:25

Operation Scenario

You can grant a user the permissions to view and use specific resources in the TKE console by using a CAM policy. The examples in this document guide you through the process of configuring a single cluster in the console.

Directions

Configuring Full Read/write Permission for a Single Cluster

- 1. Log in to the CAM console.
- 2. In the left sidebar, click Policies to go to the policy management page.
- 3. Click **Create a custom policy** and select the "Create by policy syntax" method.
- 4. Select the "Blank template" type and click **Next**.
- 5. Enter a custom policy name and replace "Edit policy content" with the following.

```
{
    "version": "2.0",
    "statement": [
    {
        "action": [
        "ccs:*"
    ],
        "resource": [
        "qcs::ccs:sh::cluster/cls-XXXXXX", // Replace with the cluster in the specified region for wh
        ich you want to grant permissions
        "qcs::cvm:sh::instance/*"
    ],
        "effect": "allow"
    },
    {
}
```

"action": [

```
"cvm:*"
],
"resource": "*",
"effect": "allow"
},
{
"action": [
"vpc:*"
],
"resource": "*",
"effect": "allow"
},
{
"action": [
"clb:*"
],
"resource": "*",
"effect": "allow"
},
{
"action": [
"monitor:*",
"cam:ListUsersForGroup",
"cam:ListGroups",
"cam:GetGroup",
"cam:GetRole"
],
"resource": "*",
"effect": "allow"
}
]
}
```

6. In "Edit policy content", change qcs::ccs:sh::cluster/cls-XXXXXXX to the cluster in the specified region for which you want to grant permissions. See the figure below:
 For example, if you need to grant full read/write permission for the cls-69z7ek9l cluster in

Guangzhou, change qcs::ccs:sh::cluster/cls-XXXXXXX to "qcs::ccs:gz::cluster/cls-69z7ek9l".

Edit Policy Content 1 { "version": "2.0", 2 З "statement": [4 { "action": [5 "ccs:*" 6 7], 8 "resource": [9 'qcs::ccs:gz::cluster/cls-69z7ek91", // Replace with the cluster in the spe 10 'qcs::cvm:sh::instance/* 11], "effect": "allow" 12 13 }, 14 { 15 "action": [16 "cvm:*

Replace with the ID of the cluster ID in the specified region for which you want to grant permissions. If you want to allow sub-accounts to scale the cluster, you also need to configure the user payment permission for the sub-accounts.

7. Click **Create a policy** to complete the configuration of full read/write permission for a single cluster.

Configuring Read-only Permission for a Single Cluster

- 1. Log in to the CAM console.
- 2. In the left sidebar, click Policies to go to the policy management page.
- 3. Click Create a custom policy and select the "Create by policy syntax" method.
- 4. Select the "Blank template" type and click **Next**.
- 5. Enter a custom policy name and replace "Edit policy content" with the following.

```
{
    "version": "2.0",
    "statement": [
    {
        "action": [
        "ccs:Describe*",
        "ccs:Check*"
    ],
        "resource": "qcs::ccs:gz::cluster/cls-1xxxxxx", // Replace with the cluster in the specified r
```

```
egion for which you want to grant permissions
"effect": "allow"
},
{
"action": [
"cvm:Describe*",
"cvm:Inquiry*"
],
"resource": "*",
"effect": "allow"
},
{
"action": [
"vpc:Describe*",
"vpc:Inquiry*",
"vpc:Get*"
],
"resource": "*",
"effect": "allow"
},
{
"action": [
"clb:Describe*"
٦,
"resource": "*",
"effect": "allow"
},
{
"effect": "allow",
"action": [
"monitor:*",
"cam:ListUsersForGroup",
"cam:ListGroups",
"cam:GetGroup",
"cam:GetRole"
],
"resource": "*"
}
]
}
```

6. In "Edit policy content", change qcs::ccs:gz::cluster/cls-1xxxxxx to the cluster in the specified region for which you want to grant permissions. See the figure below:
 For example, if you need to grant ready-only permission for the cls-19a7dz9c cluster in Beijing,

change qcs::ccs:gz::cluster/cls-1xxxxxx to qcs::ccs:bj::cluster/cls-19a7dz9c .

```
Edit Policy Content
    1 {
          "version": "2.0",
    2
          "statement": [
    3
    4
             {
                  "action": [
    5
                      "ccs:Describe*",
    6
    7
                      "ccs:Check*"
    8
    9
                  "resource": "qcs::ccs:bj::cluster/cls-19a7dz9c" // Replace with the cluster in
                   'effect": "allow'
   10
              },
   11
   12
              {
                  "action": [
   13
                      "cvm:Describe*",
   14
                      "cvm:Inquiry*"
   15
   16
                  1,
```

Replace with the ID of the cluster ID in the specified region for which you want to grant permissions.

7. Click **Create a policy** to complete the configuration of read-only permission for a single cluster.

Configuring a Sub-account's Full Read/write or Read-only Permission to TKE

Last updated : 2020-02-24 16:43:58

Operation Scenario

You can grant a user the permissions to view and use specific resources in the TKE console by using a CAM policy. The examples in this document guide you through the process of configuring certain permissions in the console.

Steps

Configuring Full Read/write Permission

- 1. Log in to the CAM console.
- 2. In the left navigation pane, click Policies to go to the policy management page.
- On the "Policy management" page, click Associate a user/group in the row of QcloudCCSFullAccess policy. See the figure below:

Policy All Policies 👻					
Bin	Bind users or user groups with the policy to assign them related permissions.				
Сп	eate Custom Policy Delete		5	Support search by policy Q	
	Policy Name	Description	Service Type 🔹	Operation	
	QcloudCCRReadOnlyAccess	Read-only access to Cloud Container Service - Image Registry (IR)	Tencent Container Registry	Bind User/Group	
	QcloudCCSFullAccess	Full read-write access to Cloud Container Service - Cluster, including permissions for C_{\cdots}	Cloud Container Service	Bind User/Group	
	QcloudCCSInnerFullAccess	Full read-write access to Cloud Container Service - Cluster	Cloud Container Service	Bind User/Group	
	QcloudCCSReadOnlyAccess	Read-only access to Cloud Container Service - Cluster	Cloud Container Service	Bind User/Group	
	QcloudCDBAccessForIOTRole	Cross-service access of IoT Cloud (IOT) to TencentD8	IOT CLOUD	Bind User/Group	
	QcloudCDBFinanceAccess	Financial access to TencentDB	Cloud Database	Bind User/Group	
	QcloudCDBFullAccess	Full read-write access to TencentDB, including permissions for TencentDB and related \ldots	Cloud Database	Bind User/Group	
	QcloudCDBInnerReadOnlyAccess	Read-only access to TencentDB	Cloud Database	Bind User/Group	
	QcloudCDBLaunchToDFW	Permission for creating TencentDB resources in the specified security group (SG)	Cloud Database	Bind User/Group	
	QcloudCDBLaunchToVPC	Permission for creating TencentDB resources in the specified Virtual Private Cloud (VPC)	Cloud Database	Bind User/Group	
	QcloudCDBProjectToUser	TencentDB sub-account's access to projects	Cloud Database	Bind User/Group	
	QcloudCDBReadOnlyAccess	Read-only access to TencentDB resources	Cloud Database	Bind User/Group	



- 4. In the Associate a user/user window that pops up, select the account that needs full read/write permission for the TKE service, and click OK to grant full read/write permission for the TKE service to the sub-accounts.
- 5. On the "Policy management" page, click **Associate a user/group** in the row of **QcloudCCRFullAccess** policy. See the figure below:

Policy All Policies 👻						
	Bind use	Bind users or user groups with the policy to assign them related permissions.				
	Create	Create Custom Policy Delete			QcloudCCRFullAccess Q	
	D Pe	olicy Name	Description	Service Type 🔻	Operation	
		Search"QcloudCCRFullAccess", 1 results are found.Back to Original List				
	🔲 Q	cloudCCRFullAccess	Full read-write access to Cloud Container Service - Image Registry (IR)	Tencent Container Reg	jistry Bind User/Group	

6. In the Associate a user/group window that pops up, select the account that needs full read/write permission for Image Registry, and click OK to grant full read/write permission for Image Registry to the sub-accounts.

If you want to use the trigger and automatic building features of Image Registry, you also need to configure additional permissions for TKE - continuous integration (CCB).

Configuring Read-only Permission

- 1. Log in to the CAM console.
- 2. In the left navigation pane, click **Policies** to go to the policy management page.
- 3. On the "Policy management" page, click **Associate a user/group** in the row of **QcloudCCSReadOnlyAccess** policy. See the figure below:

Policy	All Policies 💌						
		Bind users or user groups with the policy to assign them related permissions.					
		Creat	te Custom Policy Delete			QcloudCCSReadOnlyAcc Q	
			Policy Name	Description	Service Type 🔻	Operation	
				Search"QcloudCCSReadOnlyAccess", 1 results are found.Back to Original List			
			QcloudCCSReadOnlyAccess	Read-only access to Cloud Container Service - Cluster	Cloud Container Servic	e Bind User/Group	
		Selecte	ed 0 items, Total 1 items		Lines per page:	20 × H ≺ 1/1 ⊨ H	

- 4. In the Associate a user/user window that pops up, select the account that needs read-only permission for the TKE service, and click OK to grant read-only permission for the TKE service to the sub-accounts.
- On the "Policy management" page, click Associate a user/group in the row of QcloudCCRReadOnlyAccess policy. See the figure below:

Policy All Policies *						
	Bind users or user groups with the policy to assign them related permissions.					
	Create Custom Policy Delete			QcloudCCRReadOnlyAcc Q		
	Policy Name	Description	Service Type *	Operation		
		Search"QcloudCCRReadOnlyAccess", 1 results are found.Back to Original List				
	QcloudCCRReadOnlyAccess	Read-only access to Cloud Container Service - Image Registry (IR)	Tencent Container Regis	stry Bind User/Group		
	Selected O items Teta 11 items		lines per page: 2	0 × H ≤ 1/1 → H		

6. In the **Associate a user/group** window that pops up, select the account that needs read-only permission for Image Registry, and click **OK** to grant read-only permission for Image Registry to the sub-accounts.

If you want to use the trigger and automatic building features of Image Registry, you also need to configure additional permissions for TKE - continuous integration (CCB).