

# Tencent Cloud Infrastructure as Code Operation Guide Product Documentation



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# Operation Guide Operation Guide

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# **Operation Guide**

### 1. Creating a Stack

You need to create a stack when you first use TIC. Stacks can also be created as needed according to business requirements. Before creating a stack, you need to configure API credentials on the **Settings** page in the TIC console.

#### Directions

Step 1. Log in to Tencent Cloud Console. On the top navigation bar, select TIC Platform under Products to go to the TIC console (Stacks). Click New Stack.

TIC Platform	Stacks / New Stack	
Stacks	Select Mode → (	2) Configure Stack > (3) Plan > (4) Apply
<ul> <li>Templates</li> <li>Resource Types</li> </ul>	Cloud Environment	
* Designer	Provider Region	Tencent Cloud Please select Region
	specify Template	Prease select negion *
	URL	Enter URL to get template content Get
	Private templates     Public templates	Please select
	Enter template content	

On the **New Stack** page, take the following steps:

1. Select a provider. The default value is **Tencent Cloud**. Currently, only **Tencent Cloud** is available.

- 2. Select a region to which resources in the stack belong.
- 3. In the Specify Template area, specify how you want to create the stack. URL: currently only supports Tencent Cloud COS and GitHub; only one file can be obtained at a time. Private templates: use a private template. Public templates: use a public template. Enter template content: directly enter the infrastructure code; multi-file compiling and common shortcuts (Ctrl+S, Ctrl+Z, and Ctrl+X) are supported.
- 4. Click Next.

Step 2. Configure the stack. Modify resource parameters in the template as needed. A stack draft named "draft-XXX" will be created automatically on the backend to save your code. Click **Next**.

TIC Platform	Stacks / New Stack
Stacks	Select Mode $\rightarrow$ <b>2</b> Configure Stack $\rightarrow$ <b>3</b> Plan $\rightarrow$ <b>4</b> Apply
• Templates	
• Resource Types • Designer	variable×   Files  variable×  variable×  variable×  variable×  variable×  variable×
⊅ Settings ▼	1 • variable "short_name" { 2
E	Next Previous

Step 3. Plan. TIC will check the syntax, simulate a stack creation, and return the plan results. Check whether the plan results are consistent with your own. If so, click **Next**.



TIC Platform	Stacks / New Stack
Image: Stacks     Image: Stacks       Image: Stacks     I	Select Mode > Configure Stack > 3 Plan > 4 Apply          [std]       )         [std]       2: name = "\$(var short_name)"         [std]       10: anter required all non-constant expressions to be         [std]       provided via interpolation syntax, but this pattern is now deprecated. To
Ξ	[std] selence this warning, remove the "\${ sequence from the start and the }"         [std] sequence from the end of this expression, leaving just the inner expression.         [std] Template interpolation syntax is still used to construct strings from         [std] expressions when the template includes multiple interpolation sequences or a         [std] mixture of literal strings and interpolation sequences.         [std] do nor more similar warning elsewhere)         [system] start analyze plan result         [system] save files finish         [fmich]

Step 4. Apply for the creation. Enter the stack name and description, and verify that the API credentials are correct. Click **Confirm**. In the confirmation dialog box, click **Confirm**. Then TIC will submit a creation request and you will be redirected to the stack creation event list.

TIC Platform	Stacks / New Stack	
Stacks Stacks	Select Mode	💙 Configure Stack 🔿 💙 Plan 👌 👍 Apply
<ul> <li>Templates</li> <li>Resource Types</li> <li>Designer</li> </ul>		
🌣 Settings 🛛 👻		
	Stack name	Please enter name, Limit of 60 characters
	Description	please enter description, Limit of 200 characters
	API Credentials	tencentcloud-Internal Team
E	Confirm Previous	



TIC Platform Stacks / New Stack	and a second reading the second s
E Stacks	
* Stacks	🖌 Select Mode 🔅 🗸 Configure Stack 🔅 💎 Plan 🔅 👍 App
' Templates	
* Resource Types	
* Designer	Confirm ×
🌣 Settings 🔹	Stack name: OneGame2019
	Description: Game architecture for 2019
	Region: ap-beijing API Credentials: tencentcloud-Internal Team
	Ari Credentiais: tericentcioud-internal leam
	The static creation is completed, you can get detail information from events.
	Confirm
Confirm Previous	

### 2. Stack Management

1. Stacks

Log in to TIC Console to go to the Stacks page. On this page you can find the following information on the stacks:

- (1) Region to which the stack belongs
- (2) Creation time (GMT +0:00)
- (3) Status
- (4) Current version
- (5) Cloud provider



TIC Platform	Stacks management						
Stacks 👻	New stack Destroy	Delete			Filter by ke	y words of stack name or descri	ption Q 🗘 🗘
Stacks							
<ul> <li>Templates</li> <li>Resource Types</li> </ul>	Stack name	Description	Region <b>T</b>	Created time \$	Status T	Version	Operation
* Designer	OneGame2019	Game architecture for 2019	ap-beijing	2019-12-26 21:42:50	APPLY_COMPLETED	20191226214250	Details
🌣 Settings 🔹	draft-1577354989		ap-guangzhou	2019-12-26 18:09:49	VERSION_EDITING	20191226180949	Details
	OneGame	OneGame architecture	ap-beijing	2019-12-25 20:57:37	DESTROY_COMPLETED	20191225215817	Details
	hello	hello	ap-chengdu	2019-12-25 17:25:18	DESTROY_COMPLETED	20191226151418	Details
	Total items: 4				Red	cords per page 10 💌 🕅	< 1 /1 page > >

This page allows you to perform the following operations on stacks:

(1) Destroy a stack to release resources in the stack. After a stack is destroyed, its status will change from "APPLY\_COMPLETED" to "DESTROY\_COMPLETED".

- (2) Delete a stack. You can only delete a stack after you destroy the stack.
- 2. Click Details to the right of the target stack to view the stack details, including:
- (1) Property tab: basic information page

(2) **Version** tab: version management page where you can view and manage the historical versions of the stack. You can create, export, and compare versions, and save a version as a template, etc. Each stack can only have one version draft. If you do not specify a version when you create a new version, the new version will be created on the basis of the version in the "VERSION\_EDITING" state. If no version in the "VERSION\_EDITING" state exists, the current version will be used as the basis. If you do specify a version, the specified version will be used as the basis.

(3) Resource tab: list of resources in the stack

#### (4) Event tab: version-related events

TIC Platform	Stacks / OneGame2019		
Stacks 🔹	Property Version Resource Event		
• Stacks			
' Templates	Basic info		
Resource Types	Name OneGame2019	Current version 20191226214250	Description Game architecture for 2019
' Designer	Region info ap-beijing	Update time 2019-12-26 21:42:50	
🌣 Settings 🛛 🔻	Create time 2019-12-26 21:42:50		
	Status APPLY_COMPLETED		

TIC Platform	Stacks / OneGame2019					
🗄 Stacks 🔹	Property <b>Version</b> Resource	Event				
• Stacks	New version Export Save as	s template More operation 🔻			Filter by key words of version name or description	Q Ø
' Templates						
' Resource Types	Version name	Created time \$	Status T	Description	Operation	
Designer	20191226222041	2019-12-26 22:20:41	VERSION_EDITING		Details	
🌣 Settings 🛛 🔻	20191226214250	2019-12-26 21:42:50	APPLY_COMPLETED		Details	
	Total items: 2				Records per page 10 V H 4 1 /1 page	► H

TIC Platform	Stacks / OneGame2019					
E Stacks 🔻	Property Version Resource	Event				
* Stacks					Filter by key words of version name	Q
' Templates						
Resource Types	Version name	Status	Content	Time ‡	Operation	
' Designer	0 20191226214250	APPLY_COMPLETED	Apply complete! Resources: 1 added, 0	2019-12-26 2	2:05:14 Details	
🌣 Settings 🔹 🔻	20191226214250	PLAN_COMPLETED	Plan: 1 to add, 0 to change, 0 to destroy.	2019-12-26 2	1:51:10 Details	
	Total items: 2				Records per page 10 💌 🖂 1	/1 page 🕨 🕨

### 3. Template Management

Log in to TIC Console. Select **Templates** in the left sidebar to go to the **Template management** page. On this page you can manage private and public templates.

1. On the **Private** tab, you can create, use, copy, and delete private templates. If you want to use a private template to create a stack, select the template and click **Deploy**.

Template management						
Private Public						
New template Deploy Delete				Filter by key words of version	on name or description	Q
Template name	Description	Created time \$	Update time	\$	Operation	
⊖ TC_VPC	Public template used to create a VPC in	2019-12-26 22:28:50	2019-12-26	22:29:24	Edit Copy	
test	few	2019-12-26 15:15:10	2019-12-26	15:15:10	Edit Copy	
Total items: 2				Records per page 10 🔻	r i	
	Private     Public       New template     Deploy     Delete       Template name     TC_VPC       test	Private     Public       New template     Deploy       Template name     Description       TC_VPC     Public template used to create a VPC in       test     few	Private     Public       New template     Deploy     Delete       Template name     Description     Created time *       TC_VPC     Public template used to create a VPC in     2019-12-26 22:28:50       test     few     2019-12-26 15:15:10	Private       Public         New template       Deploy       Delete         Template name       Description       Created time *       Update time         TC_VPC       Public template used to create a VPC in       2019-12-26 22:28:50       2019-12-26 20:20:20:20:20:20:20:20:20:20:20:20:20:2	Private       Public         New template       Deploy       Delete         Template name       Description       Created time *       Update time *         TC_VPC       Public template used to create a VPC in       2019-12-26 22:28:50       2019-12-26 22:29:24         test       few       2019-12-26 15:15:10       2019-12-26 15:15:10	Private       Public         New template       Deploy       Delete         Template name       Description       Created time *       Update time *       Operation         TC_VPC       Public template used to create a VPC in       2019-12-26 22:29:24       Edit       Copy         test       few       2019-12-26 15:15:10       2019-12-26 15:15:10       Edit       Copy

2. On the **Public** tab, you can view, save, and deploy public templates. If you want to use a public template to create a stack, select the template and click **Deploy**.

TIC Platform	Template management						
Stacks 🔻	Private <b>Public</b>						
' Stacks	New template Deploy Save				Filter by key words of version	n name or description	Q Ø
Templates							
Resource Types	Template name	Description	Created time \$	Update ti	ne ‡	Operation	
Designer	O TC_VPC	Public template used to create a VPC in	2019-12-17 21:06:46	2019-12-1	7 21:07:54	View	
🌣 Settings 🔹	тс_сvм	Public template used to create a CVM i	2019-12-17 21:04:10	2019-12-1	7 21:05:23	View	
	Total items: 2				Records per page 10 ▼	Image         Image	▶ H

### 4. Resource Types

**Resource Types** provides references for you to use Tencent Cloud resources. Click **Details** to the right of the target resource to view the parameter information, use cases, and references.

TIC Platform	Resource Types					
88 Stacks ▼						Q Ø
<ul> <li>Stacks</li> <li>Templates</li> </ul>	Resource name	Product	Description	Details		
<ul> <li>Resource Types</li> <li>Designer</li> </ul>	tencentcloud_as_scaling_configs	Auto Scaling(AS)	[Data source] Use this data source to query scaling configuration information.	Details		
¢ Settings →	tencentcloud_as_scaling_policies	Auto Scaling(AS)	[Data source] Use this data source to query detailed information of scaling policy.	Details		
	tescentdoud_as_scaling_groups	Auto Scaling(AS)	[Data source] Use this data source to query the detail information of an existing autoscaling group.	Details		
	tescentcloud_ss_lifecycle_hook	Auto Scaling(AS)	Provides a resource for an AS (Auto scaling) lifecycle hook.	Details		
	tencentcloud_as_schedule	Auto Scaling(AS)	Provides a resource for an AS (Auto scaling) schedule.	Details		
	tencentcloud_as_scaling_config	Auto Scaling(AS)	Provides a resource to create a configuration for an AS (Auto scaling) instance.	Details		
	tencentcloud_ac_scaling_policy	Auto Scaling(AS)	Provides a resource for an AS (Auto scaling) policy.	Details		
	tencentcloud_as_scaling_group	Auto Scaling(AS)	Provides a resource to create a group of AS (Auto scaling) instances.	Details		
	tencentcloud_as_attachment	Auto Scaling(AS)	Provides a resource to attach or detach CVM instances to a specified scaling group.	Details		
	tencentcloud_as_notification	Auto Scaling(AS)	Provides a resource for an AS (Auto scaling) notification.	Details		
	Total items: 180				Records per page 10 * H 4 1 / 18 pages	s ▶ H



TIC Platform	Resource Types / tencentclou	d_as_scaling_configs				
<ul> <li>Stacks</li> <li>Stacks</li> <li>Templates</li> <li>Resource Types</li> <li>Designer</li> </ul>	Overview [Data source] Use this data source to query scaling configuration information.			<pre>data "tencentcloud_as_scaling_configs" "as_configs" {     configuration_id = "asc-oqiodyyj"     result_output_file = "my_test_path"     ) </pre>		e ()
Settings     Reference Product API overview: https://intl.cloud.tencent.com/document/product/377 Terraform resources: https://www.terraform.io/docs/providers/tencentcloud/d/as_s						
	Argument	Required	Туре	Updatable	Description	value range
	result_output_file	false	string	true	Used to save results.	
	configuration_name	false	string	true	Launch configuration na	
Ξ	configuration_id	false	string	true	Launch configuration ID.	

### 5. Designer

The TIC Designer enables you to create reusable custom templates for stack creation.

TIC Platform	Designer	
<ul> <li>Stacks</li> <li>Stacks</li> <li>Templates</li> <li>Resource Types</li> </ul>	Name:     Submit     Cancel       Description:	
• Designer	main.tf × De C Files	L
\$ Settings ▼		

Currently the TIC Designer supports code compiling only. It supports multi-file structure, and allows file upload and download. You can easily switch between local and online code compilation.

### 6. Settings

You can configure API credentials, SecretID and SecretKey, on the **API Credentials** page. Note that each provider has and can only have one key in the "Active" state. When you create a stack, TIC automatically uses the key in the "Active" state to call the API.

TIC Platform	API Credentials					
Stacks 🔻	New Activate Delete					
🌣 Settings 🛛 👻						
API Credentials	Name	Provider	Create Time \$	Description	Status T	Details
	O Project01	tencentcloud	2019-12-23 15:16:18	Overseas projects	Ready	Details
	O Internal Team	tencentcloud	2019-12-19 16:22:54	Backup Key	Active	Details
	Total items: 2				Records per page 10 ▼	H 4 1 /1 page > H

Note: API credentials in the "Active" state cannot be deleted. If you want to delete an API credential that is being used by a stack, you need to destroy the stack first, even when the API credential is in the "Ready" state.

# References

This operation guide will be updated with more details along with follow-up product iterations. For more information on TIC, see the following links:

1. Terraform documentation:

https://www.terraform.io/docs/providers/tencentcloud/index.html

https://www.terraform.io/docs/configuration/index.html

2. GitHub: https://github.com/terraform-providers/terraform-provider-tencentcloud

# **Platform Settings**

Last updated : 2020-08-07 16:52:01

Upon first use of Tencent Cloud Infrastructure as Code (TIC), you must authorize the service to access cloud resources under your Tencent Cloud account for orchestration. Without the authorization, TIC is unable to orchestrate Tencent cloud resources.

TIC supports the following authorization methods:

- TIC authorization (recommended): based on the built-in service-related role assignment mechanism of Cloud Access Management (CAM), you can orchestrate Tencent Cloud resources through TIC with no need to manage API credentials in TIC. This method is more efficient and secure and meets audit compliance requirements.
- 2. Managed API credentials (deprecated): you must manage API credentials (SecretID and SecretKey) in TIC. After TIC encrypts and stores an API credential, it signs requests with the managed API credential to orchestrate cloud resources. This method is available only for existing users who have API credentials managed in TIC.

The TIC authorization method provides a more efficient and secure permission management mechanism. It is recommended that you switch to the TIC authorization method at the earliest possible time and clear the managed API credentials from TIC.

### Directions

### **TIC** authorization

### **Enabling TIC authorization**

- 1. Log in to the TIC console.
- 2. In the left sidebar, choose Settings -> API Credentials to go to the API Credentials page.
- 3. Click the **TIC Authorization** switch to enable the feature. A message appears prompting you to redirect to the CAM console for authorization.

тіс	API Credentials	
⊡     Orchestration     ▼       Image: Settings     ▼       Image: API Credentials	TIC Authorization	
	Service authorization × You are authorizing TIC service orchestration of CVM/VPC/COS and other Tencent Cloud resources. Please go to "Access Management" to complete the authorization.	
	Access Management Cancel	

4. Go to the CAM console to complete authorization.

Cloud Access Management	← Role Mana	igement
Dashboard	Service Authori	zation
Users -		
User Groups	After agreeing to gr Infrastructure as Co	ant permission for Tencent Cloud Infrastructure as Code, a preset role will be created for the service and relevant permissions will be granted to Tencent Cloud ode
Policies	Role Name	TIC_QCSLinkedRoleInInfrastructureAsCode
Roles	Role Type	Service-Linked Role
Identity Providers	Description	The current role is the TIC service role, this role is used to authorize TIC to orchestrate CVM, VPC, COS and other service resources, without the need for user escrow keys, and the operation is more efficient and safe.
Access Key 🔻		esciów keys, and the operation is more enicient and sale.
	Authorized Policy	Preset policy QcloudAccessForTICRoleInInfrastructureAsCode
	Grant	Cancel

5. Go back to the **API Credentials** page after the authorization is complete. The TIC authorization feature is enabled.

тіс	API Credentials
<ul> <li>Orchestration</li> <li>Settings</li> <li>API Credentials</li> </ul>	TIC Authorization

After TIC authorization is enabled, you can create a stack.

#### **Disabling TIC authorization**

- 1. Log in to the TIC console.
- 2. In the left sidebar, choose **Settings** -> **API Credentials** to go to the **API Credentials** page.
- 3. Click the **TIC Authorization** switch to disable the feature.

ТІС	API Credentials
<ul> <li>Orchestration </li> <li>Settings </li> <li>API Credentials</li> </ul>	TIC Authorization
	Disable TIC Authorization       ×         You are disabling the TIC Authorization. After disabling the authorization, you will not be able to orchestrate Tencent Cloud resources through the TIC service. Confirm the disabling?         Confirm       Cancel

4. This operation cannot be performed if the TIC authorization feature is still being used by a stack. Before you disable TIC authorization, you must manually destroy the stack.

ТІС	API Credentials	There are still stacks that are bound to TIC X     authorization and do not support disabling
∃≟ Orchestration ▼		operations.
Settings •	TIC Authorization	
API Credentials	Authorize TIC to orchestrate CVM/VPC/COS and other Ter	ncent Cloud resource permissions.
	Status Authorization succeeded	

Disabling TIC authorization does not delete the TIC-related role assignment configuration in the CAM console. To delete the TIC-related role assignment configuration in the CAM console, go to the Roles page, find the

0



TIC\_QCSLinkedRole role, and then click **Delete** in the **Operation** column.

shboard ers	<b>.</b>		y account? peration in a service, such as authorizing to create service roles, the service may cr ce-related roles, the service may automatically create roles in your account.	eate service-related roles for you. Or, if you ha	ave been using a
er Groups					
olicies		Create Role		TIC_QCSLinkedRoleInInfrast	tructureAsCod 🙁 🤇
oles					
lentity Providers		Role Name	Role Entity	Description	Operation
ccess Key	<b>-</b>	TIC_QCSLinkedRoleInInfrastructu	Product Service - infrastructureascode.tic.cloud.tencent.com (Service-Linked Role)	The current role is the TIC service role, thi	s r Delete
		1 in total		10 🔻 / page 🛛 🖌 🖌 1	/1 page 🕨 🕨

#### Handling authorization failures

If you delete the TIC\_QCSLinkedRole role in the CAM console but do not disable TIC authorization in the TIC console,

the **Authorization failed** message appears on the **API Credentials** page. Hover over the icon. The system prompts you to reauthorize TIC.

TIC		API Credentials	
로 Orchestration	•		
<ul><li>Settings</li><li>API Credentials</li></ul>	•	TIC         Authorization configuration does not exist, please         Authorize	ont Cloud resource permissions.
		Status Authorization failed (!)	

Click Reauthorize to redirect to the CAM console.

тіс	API Credentials
Image: Setting simple strate       Image: Setting simple strate         Image: Appl Credential simple strate	TIC Authorization         Authorize TIC to orchestrate CVM/VPC/COS and other Tencent Cloud resource permissions.         Status       Authorization failed
	Disable TIC Authorization       X         You are disabling the TIC Authorization. After disabling the authorization, you will not be able to orchestrate Tencent Cloud resources through the TIC service. Confirm the disabling?         Confirm       Cancel

After the authorization is complete, the status restores to normal state.

тіс	API Credentials
∃≟ Orchestration ▼	TIC Authorization
<ul> <li>Settings •</li> <li>API Credentials</li> </ul>	Authorize TIC to orchestrate CVM/VPC/COS and other Tencent Cloud resource permissions.
	Status Authorization succeeded

#### **Permitted services**

TIC is authorized to access the following Tencent Cloud services for orchestration:

This list is continuously updated. If you want to include a Tencent Cloud service in TIC for orchestration, submit a ticket to inform the TIC team.

### Managed API credentials (deprecated)

This method is available only for existing users (with managed API credentials in TIC).

#### **Clearing API credentials**

After you enable TIC authorization, the **Clear** button is displayed. Click this button to delete configuration of all API credentials managed in TIC.

After the API credentials are deleted, existing stacks associated with the API credentials use the TIC authorization method to complete subsequent orchestration operations by default.

The TIC authorization method does not support cross-account resource orchestration in Tencent Cloud. If you need resource orchestration for other Tencent Cloud root accounts, it is recommended that you retain the managed API credentials to ensure service continuity.

#### **Deleting an API credential**

Select an API credential and click **Delete**.

If TIC authorization is enabled, existing stacks associated with the API credential use the TIC authorization method to complete subsequent orchestration operations by default.

If TIC authorization is disabled, API credentials in the Active state cannot be deleted. When a credential is being used by a stack, it cannot be deleted even if it is in the Ready state. To delete such an API credential, you must first destroy the associated stack.

### **Creating an API credential**

Click New. In the dialog box that appears, complete the following settings:

- Name: enter the name of the API credential.
- **Provider**: the default provider is Tencent Cloud (only option available).
- SecretID and SecretKey: enter the corresponding SecretID and SecretKey. Obtain the SecretID and SecretKey on the API Keys page.

A provider allows only one credential that is in the Active state. When a stack is created, TIC automatically selects the credential in the Active state for API calls.

If TIC authorization is enabled, no additional API credentials cannot be created. Click **OK** to add the API credential.

# Creating a Stack

Last updated : 2020-08-13 09:31:59

You need to create a stack when you use TIC for the first time. Stacks can also be created based on your business requirements.

### Prerequisites

Before creating a stack, you must authorize TIC on the **Settings** page in the TIC console.

### Directions

- 1. Log in to the TIC console.
- 2. In the left sidebar, choose **Orchestration** -> **Stacks** to go to the **Stacks** page.
- 3. Click New stack. On the New Stack page, perform the following steps.

#### Step 1: Select Mode

- 1. Provider: the default value is Tencent Cloud. Currently, only Tencent Cloud is available.
- 2. **Region**: select a region where all resources in the stack will reside.
- 3. Specify Template: specify how you want to create the stack.
  - **URL**: only Tencent Cloud COS and GitHub are supported. Only one file can be obtained at a time.
  - **Private templates**: select a private template. For more information, see Template Management.
  - Public templates: select a public template. For more information, see Template Management.
  - Enter template content: enter infrastructure code. Multi-file compiling and common shortcuts (such as Ctrl+S, Ctrl+Z, and Ctrl+X) are supported.



Stacks / Ne	w Stack	
1 Select	Mode > 2 Configure Stack > 3 Plan	> (4) Apply
Cloud Environr	nent	
Provider	Tencent Cloud	
Region	ap-beijing -	$\odot$
URL Please enter	r the URL of the template file with .tf and .zip suffixes. For security reasons, we	e only supports template files hosted on Tencent Cloud Object Storage (COS) or Github.
Private t	templates ct private template which saved in the "Resource Orchestration" "Template Ma	inagement* page.
Public te Please selec TC_C	ot the sample public template built by the system in the "Resource Arrangemen	nt" "Template Management" page.

### 4. Click Next to go to Step 2.

### Step 2: Configure Stack

1. Modify resource parameters in the template as needed. A stack draft named "draft-xxx" is automatically created on the backend to save your code.



2. Click **Next** to go to Step 3.

Files 主 🖿	I ± ± main.tf ×
🖹 main.tf	「直」15 16 data "tencentcloud_availability_zones" "my_favorate_zones" {}
variables.tf	17
	18 - resource "tencentcloud_key_pair" "random_key" {
	19 key_name = "tf_example_key6"
	<pre>20 public_key = "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAAAgQDjd8fTnp7Dcuj4mLaQxf9Zs</pre>
	21 }
	22
	23 - resource "tencentcloud_instance" "foo" {
	24 instance_name = var.instance_name
	<pre>25 availability_zone = data.tencentcloud_availability_zones.my_favorate_zones.zones.0.name 26 image_id = data.tencentcloud_images.my_favorate_image.images.0.image_id</pre>
	26 Image_ia = data.tencentcloud_images.my_ravorate_images.wimages.wimage_ia 27 instance_type = data.tencentcloud_instance_types.my_favorate_instance_types
	.instance_types.0.instance_type
	28 key_name = tencentcloud_key_pair.random_key.id
	29 system_disk_type = "CLOUD_PREMIUM"
	31 disable_monitor_service = true 32 internet_max_bandwidth_out = 2
	33  count = 1
	34 }
	35 1

### Step 3: Plan

TIC will verify the syntax, simulate a stack creation, and return the plan result. If the result meets you requirements, click **Next** to go to Step 4.



[std]	+ data_disk_id = (known after apply)
[std]	+ data_disk_size = (known after apply)
[std]	+ data_disk_type = (known after apply)
[std]	+ delete_with_instance = (known after apply)
[std]	}
[std]	}
	# tencentcloud_key_pair.random_key will be created
[std]	+ resource "tencentcloud_key_pair" "random_key" {
[std]	+ id = (known after apply)
[std]	+ key_name = "tf_example_key6"
[std]	+ project_id = 0
[std]	+ public_key = "ssh-rsa
	B3NzaC1yc2EAAAADAQABAAAAgQDjd8fTnp7Dcuj4mLaQxf9Zs/ORgUL9fQxRCNKkPgP1paTy1l513maMX126i36Lxxl3+FUB52oVbo/FgwllfX8hyCnv8MCxqnuSDozf1CD0/wRY
	}
	Plan: 2 to add, 0 to change, 0 to destroy.
[syster	m]planned
[syster	m] start analyzing the results of iac engine execution
[syster	m] save the generated state files
[syster	m] save the generated state files finish
[finish]	

### Step 4: Apply

- 1. Enter the stack name and description.
- 2. Click Confirm.
- 3. In the confirmation dialog box, click **Confirm**. TIC will then submit a creation request, and you will be redirected to the **Event** tab of the new stack.

# Stack Management

Last updated : 2020-08-13 09:31:38

This document describes how to query and manage stacks.

### Directions

- 1. Log in to the TIC console.
- 2. In the left sidebar, choose Orchestration -> Stacks to go to the Stacks page. You can view existing stacks and the following information about each stack:
  - Region: region where a stack resides.
  - Created time: time when the stack was created. UTC is used.
  - Status: status of a stack.
  - Version: current version of a stack.

tacks					
New stack			Filter by	key words of stack name or descrip	otion Q 🌣 (
ID/Name	Region <b>T</b>	Version	Status 🔻	Created time \$	Operation (i)
stk-1fian2r1 import-cdn-test 🎤	ap-beijing	20200812185150	APPLY_COMPLETED	2020-08-12 18:51:50	Destroy Delete
stk-66byn2qy tic-demo	ap-chengdu	20200812181945	DESTROY_COMPLETED	2020-08-12 18:19:45	Destroy Delete

- 3. On this page, you can perform the following stack operations:
  - Destroy a stack: release all resources under the stack. Its status will change from APPLY\_COMPLETED to DESTROY\_COMPLETED.
  - Delete a stack: delete a stack only after the stack is destroyed.
- 4. Click on the ID/Name of any stacks to query the following details:
  - Property displays basic information about the stack.
  - **Version** allows you to query and manage the version history of the stack. You can create, export and compare versions, and save a version as a template.

### ▲ Note:

Each stack can have only one version draft. If you have selected a version when creating a new one, the specified version will be used as the basis. If you do not specify a version, the new version will be created

based on the version in **VERSION\_EDITING** status by default. If no version is in the **VERSION\_EDITING** status, the current running version will be used as the basis.

- **Resource** displays all resources in the stack.
- Event displays all events related to the stack version.

## **Template Management**

Last updated : 2020-08-13 09:31:38

This document describes how to manage private and public templates.

### Directions

Log in to the TIC console and go to the Templates page. On this page, you can manage private and public templates.

#### **Private templates**

You can create, use, copy, and delete private templates.

- 1. Click the **Private** tab.
- 2. To create a stack from a private template, select a private template and click **Deploy**.

emplates						
Private     Public       New template     Deploy	Delete		Filter by key words of version na	me or description	Q	¢
Template name	Description	Created time \$	Update time \$	Operation		
C_VPC.copy	Public template used to create a VPC instance	2020-07-08 21:17:57	2020-07-08 22:12:46	Edit Copy		

#### **Public templates**

You can query, save, and deploy public templates.

1. Click the **Public** tab.



2. To create a stack from a public template, select a public template and click **Deploy**.

emplates					
Private Public					
Deploy Save			Filter by key words of version na	me or description	Q,
Template name	Description	Created time \$	Update time \$	Operation	
O TC_VPC	Public template used to create a VPC instance	2019-12-17 21:06:46	2019-12-30 20:28:54	View	
О тс_сум	Public template used to create a CVM instance	2019-12-17 21:04:10	2019-12-30 20:14:03	View	
Total items: 2			10 🔻 / page	4 1 /1 pag	e ⊨ ⊨

# **Resource Types**

Last updated : 2020-12-29 11:19:23

The **Resource Types** page provides references to help you use Tencent Cloud resources. This document describes how to query resource information.

### Directions

- 1. Log in to the TIC console.
- 2. In the left sidebar, choose **Orchestration** > **Resource Types** to go to the **Resource Types** page.
- 3. Click **Details** on the right side of any resource to view the parameter information, use cases, and references as shown in the following figure.

Data source] Use this dat	a source to query cvm instan	ces.		cloud_instances" "foo" { l = "ins-da412f5a"	۵ ۱
erraform resources: htt nl		document/product/213/15689 roviders/tencentcloud/d/instances.h			
Argument	Required	Туре	Updatable	Description	value range
vpc_id	false	string	true	ID of the vpc to be	
	false	string	true	The available zone	
availability_zone					
availability_zone	false	string	true	Name of the instan	
	false	string	true	Name of the instan	
instance_name					

# Using the Designer

Last updated : 2020-08-13 09:31:39

TIC Designer allows you to create reusable custom templates for stack creation.

### Directions

- 1. Log in to the TIC console.
- 2. In the left sidebar, choose **Orchestration** -> **Designer**.
- 3. On the **Designer** page, enter a name, description and related code. Currently, TIC Designer only supports code compiling. It supports the multi-file structure and file uploads as well as downloads. You can easily switch between on-premise and cloud-based code compilation.

Designer			
Name :	Please enter name, Limit of 60 characters	Description :	Please enter description, Limit of 200 characters
Files			G ()
	main.tf ♪茴 □ main.tf 1		
🟵 Val	idate		

4. Click **Submit** to create the template.

# **Resource Import**

Last updated : 2020-09-04 10:55:37

### Introduction

You can use the resource import feature of Tencent Infrastructure as Code (TIC) to import Tencent Cloud resources created using the console or Cloud APIs into a TIC stack for unified orchestration without having to delete or re-create Tencent Cloud resources.

### i Note:

You can only import existing Tencent Cloud resources into a new stack, not into an existing stack.

The following table lists the Tencent Cloud services that can be imported into TIC.

Tencent Cloud Service	Resource Type	Remarks
CDN	tencentcloud_cdn_domain	HTTPS certificates cannot be imported

### Directions

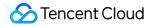
### Importing resources

- 1. Log in to the TIC console. In the left sidebar, choose Orchestration -> Stacks to go to the Stacks page.
- 2. On the Stacks page, click New stack.
- 3. In the **Select Mode** step, select a region, specify a template for importing resources, and select the resources to be imported.



ske / New Stack  Select Mode Configure Stack Configure	Select Mode <ul> <li>Configure Stack</li> <li>Select Mode</li> <li>Configure Stack</li> <li>Configure Stack</li> <li>Select Mode</li> <li>Configure Stack</li> <li>Select Measures</li> <li>Configure Stack</li> <li>Configure Stack</li> <li>Select Measures</li> <li>Configure Status</li> <li>Select Measures</li> <li>Select Measures</li> <li>Configure Status</li> <li></li></ul>										
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- 4. Click **Next** to import the selected resources.
- 5. The more resources you select to import, the longer it will take to import them. After the resources are imported, click **Import Completed** to go to the **Configure the Stack** step.



Importing reso	ources	×
Importing selected Imported: CDN	d cloud resources, thank you for your patience.	
1/1		
	Import Completed	

### **Configuring the stack**

1. After the resources are imported, the stack configurations will be generated automatically.

Select Mode > 2	Configure Stack > 3 Plan > 4 Apply	
Files 🖸 🗄 土 土	cdn.tf 🗙	6
Cdn.tt ✓ Ŭ	<pre>1    resource "tencentcloud_cdn_domain" "qchali-cdn_talebook_org" { 2     area = "mainland" 3     domain = "qchali-cdn.talebook.org" 4     full_url_cache = "true" 5 6     https_config { 7         http2_switch = "off" 8         https_switch = "off" 9         ocsp_stapling_switch = "off" 10         spdy_switch = "off" 10         spdy_switch = "off" 11         verify_client = "off" 12     } 13 14     origin { 15         cos_private_access = "off" 16         origin_list = ["qchali-cdn.talebook.com"] 17         origin_pull_protocol = "http" 18         origin_type = "domain" 19         server_name = "qchali-cdn.talebook.org" 20     } 21 22     project_id = "0" 23     service_type = "web" 24     } 25 </pre>	

2. After you confirm that the stack configurations are correct, click **Next** to go to the **Plan** step.

### A Note:

To ensure that the import operation does not affect resource configurations on the live network, follow these rules when you confirm the stack configurations:

- i. Do not modify parameters of the ForceNew type. For example, in the configuration parameters of CDN tencentcloud\_cdn\_domain , the domain and service\_type parameters are of the ForceNew type. If these 2 parameters are modified, resources on the live network will be destroyed and re-created, which may affect businesses on the live network.
- ii. You must manually configure parameters that cannot be automatically imported. For example, to import domain name certificates of CDN into TIC, manually configure the certificates and add them into the stack configuration file for resource orchestration and management.
- iii. If you have any questions about the generated configuration parameters, submit a ticket to contact the TIC team before you perform subsequent operations.
- 3. Check whether the plan results meet your requirements, especially whether any resources have been added, changed, or destroyed. If the plan results meet your requirements, click **Next**.

i Note:

TIC supports importing existing resources that have been created on Tencent Cloud. Normally, no resource is added, changed, or destroyed in the import process. If the number of added, changed, or destroyed resources is not 0 in the plan results, do not perform subsequent operations. Instead, check whether you have modified any parameters of the ForceNew type. If you have any questions, submit a ticket to contact the TIC team before you perform subsequent operations.

4. Set the stack name and the description and click **Confirm** to create the stack.

Confirm		×			
Stack name:	import-cdn-test				
Description:	testing				
Region:	ap-beijing				
API Credentials: TIC authorization					
The static creation is completed, you can get detail information from events.					
	Confirm Cancel				

### Viewing the stack status

- 1. Go to the **Stacks** page. Click the name of the created stack to go to the stack details page.
- Click the Events tab and view the stack status. APPLY\_IN\_PROGRESS indicates that the resource information is being synchronized.



Stacks / import-cdn-test								
Property Version	Resource Event							
			Filter by key words of version name	Q Ø				
Version name	Status	Content	Time ‡	Operation				
20200812185150	APPLY_IN_PROGRESS		2020-08-12 18:53:23	Details				
20200812185150	PLAN_COMPLETED	No changes. Infrastructure is up-t	2020-08-12 18:51:51	Details				
20200812185150	IMPORT_COMPLETED		2020-08-12 18:50:21	Details				
Total items: 3			10 💌 / page 🖂	I /1 page ► ■				

3. Wait 10 seconds or more for the resource information synchronization to complete. Then, the stack status will change to **APPLY\_COMPLETED**.

Stacks / import-cdn-test				
Property Version	Resource Event			
			Filter by key words of version name	Q Ø
Version name	Status	Content	Time \$	Operation
20200812185150	APPLY_COMPLETED	Apply complete! Resources: 0 add	2020-08-12 18:53:23	Details
20200812185150	PLAN_COMPLETED	No changes. Infrastructure is up-t	2020-08-12 18:51:51	Details
20200812185150	IMPORT_COMPLETED		2020-08-12 18:50:21	Details
Total items: 3			10 🔻 / page 🖂	

4. Verify that the resources have been imported into the created stack. On the **Resources** tab of the **Stacks** page, you can view the imported Tencent Cloud resources. To manage these resources, you only need to modify the configurations of the stack.

Stacks / import-cdn-test										
Property Ve	ersion	Resource	Event							
							Filter by k	key words of resource name		Q, Ø
Instance ID		Name		Status		Туре		Resource name	Operation	
qchali-cdn.talebook	c.org			Running		tencentcloud_cdn_c	domain	qchali-cdn_talebook_org	Details	
Total items: 1								10 🔻 / page 🛛 🖂	1 / 1 page	