

# **SSL Certificate Service**

## **Operation Guide**

### **Product Documentation**



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# Operation Guide

## Domain Ownership Verification

Last updated : 2024-03-06 17:31:47

### Overview

This document describes how to verify your ownership of a domain name after you apply for a DV certificate.

#### Note:

Complete verification as soon as possible. The CA will reject your certificate application if you fail to complete or pass verification within 3 days.

After passing verification, download the certificate from [Certificate Management](#) and install it.

Domain name ownership can be verified by using the following methods:

Verification Method	Use Case
Manual DNS verification	This method is for domain names that are hosted with any platform.
File verification	This method is for scenarios where there are limitations in using automatic DNS validation and manual DNS validation.(The process is complicated and requires a certain foundation for creating a site.)

### Prerequisites

For [manual DNS verification](#), you need to first complete the application for a DV certificate.

For [file verification](#), you need to obtain the username and password for logging into the server.

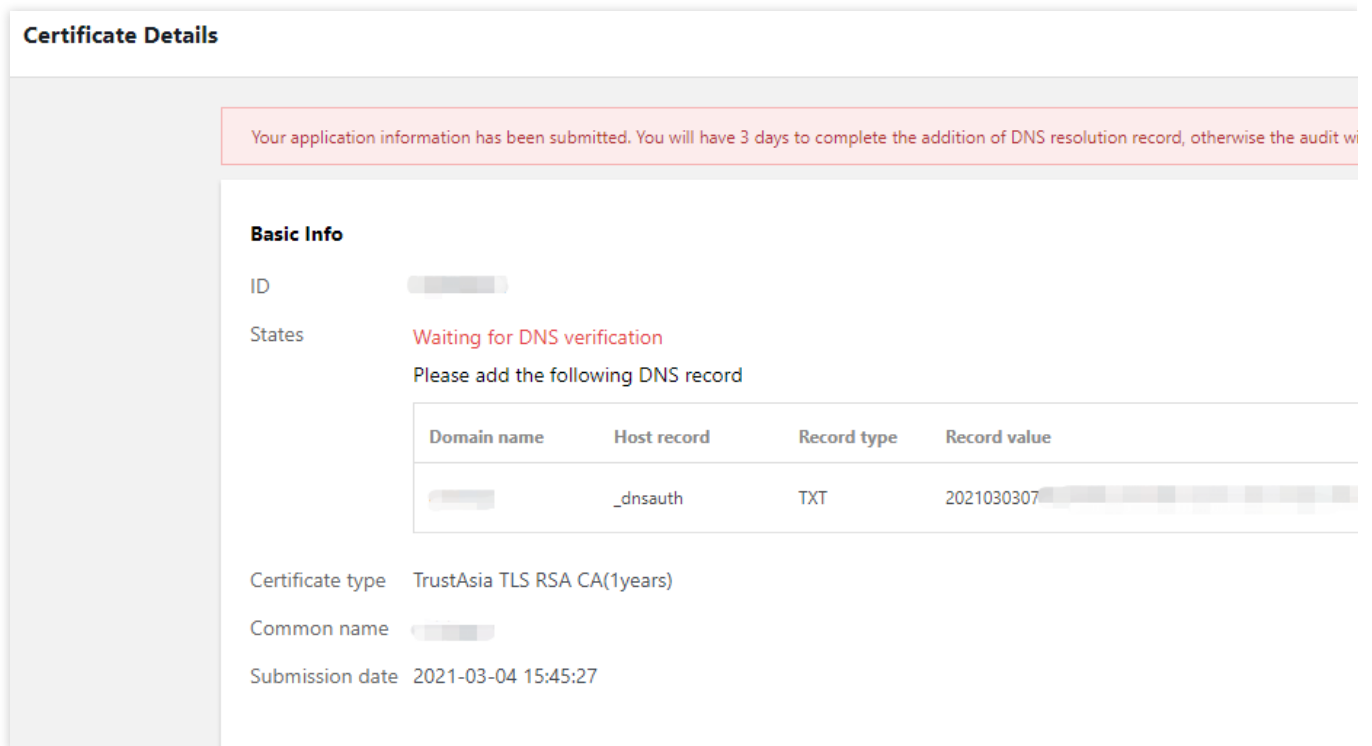
### Directions

#### Manual DNS verification

#### Note:

The following operations apply only to domains hosted with Tencent Cloud DNSPod DNS. For domains hosted with other providers, please go to the corresponding **DNS hosting provider** for DNS resolution.

1. Log in to the [SSL Certificates Service console](#).
2. On the **Certificate List** page, click the ID of the DV certificate of which you want to view the details to enter the **Certificate Details** page, as shown in the following figure.



3. Add the DNS record.

If your domain (for example, `www.tencent.com`) is hosted with Tencent Cloud DNSPod DNS:

- 3.1.1 Go to the [Certificate Details](#) page to obtain the host record and record value.
- 3.1.2 Log in to the [DNSPod Console](#) to view the domain name for which a certificate has been applied, and then click **DNS** on the **Operation** column to go to the **Record Management** page.
- 3.1.3 Click **Add Record** and set a record type.

If your domain is hosted with other providers, go to the [Certificate Details](#) page to obtain the host record and record value, and then go to the corresponding **DNS hosting provider** to add a DNS record.

4. After the record is added, the system periodically checks for the record value. If the record value is detected and matches the specified value, the domain ownership verification will be completed, as shown in the following figure:

**Note:**

DNS usually takes effect within **10 minutes to 24 hours**. The actual time depends on the ISP refresh time.

<input type="checkbox"/>	Host	Type	Split Zone	Value	Weight	MX	TTL	Last Operated
<input checked="" type="checkbox"/>	_dnsauth	TXT	Default	20210303074527634xp4...	-	-	600	2021-03-04 16:00:

## File verification

1. Log in to the [SSL Certificates Service Console](#).
2. On the **Certificate List** page, click the ID of the DV certificate of which you want to view the details to enter the **Certificate Details** page, as shown in the following figure.

### Certificate Details

Your application information has been submitted. You will have three days to complete the addition of file record, otherwise the audit v

ID [REDACTED]

States Pending file verification  
Please add the following file

File location	Filename	File content
/.well-known/pki-validation/	fileauth.txt	20210303 [REDACTED] 7wp

Certificate type TrustAsia TLS RSA CA(1years)

Common name [REDACTED]

Submission date 2021-03-04 15:50:49

3. Log in to the server and make sure that the domain name points to the server.

### Note:

If your domain is hosted with Tencent Cloud DNSPod DN, point the domain name to your server.

4. Create the specified file in the website root directory, including the file directory, name, and content.

### Note:

The website root directory refers to the folder where you store the website programs on the server. Its name may be `wwwroot`, `htdocs`, `public_html`, or `webroot`. Use the filename and file content displayed on the **Certificate Details** page after the domain ownership is verified.

## Example

The root directory of your website is `C:/inetpub/wwwroot` . You can create a file as shown in the following table in the `wwwroot` folder.

File Directory	File Name	File Content
<code>/.well-known/pki-validation</code>	<code>fileauth.txt</code>	<code>2019080603.....ep939jlu32alzeo</code>

## Note

On Windows, you need to create a file and folder that begin with a dot by running commands.

For example, to create a `.well-known` folder, open a command prompt window and execute the command `mkdir .well-known` to create it. See the following figure.

```
C:\Users\>cd ..
C:\Users>cd ..
C:\>cd inetpub
C:\inetpub>cd wwwroot
C:\inetpub\wwwroot>mkdir .well-known
```

5. Open a browser and access the corresponding URL based on the type of the domain name to be verified.

**URL format:** `http://Domain name/File directory/File name` or `https://Domain name/File directory/File name`

Access the URL to obtain the file content, for example, `2019080603.....ep939jlu32alzeo` .

If the domain name for file verification is `example.tencent.com` , access the URL

`http://example.tencent.com/.well-known/pki-validation/fileauth.txt` or

`https://example.tencent.com/.well-known/pki-validation/fileauth.txt` for verification.

## Note:

For second-level domains prefixed with `www` , for example, `www.tencent.com` , perform the following 2 steps:

First, perform [file verification](#) for the second-level domain name.

Second, perform [file verification](#) for the primary domain name `tencent.com` (you do not need to reapply for a certificate). Verify the domain name according to the method specified in **URL format** and ensure that the file content is consistent.

If the domain name for file verification is a wildcard domain name `*.tencent.com` , access the URL

`http://tencent.com/.well-known/pki-validation/fileauth.txt` or

`https://tencent.com/.well-known/pki-validation/fileauth.txt` for verification.

## Note:

Both HTTP and HTTPS are supported, and either can be accessed.

File verification does not support any redirect. Instead, it directly returns status code 200 and file content.

6. Wait for the CA's review. After the certificate is issued, the file and directory can be cleared.

**Note:**

If any problems occur during this process, please [contact us](#).



# Uploading Certificates

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## Overview

You can upload all your SSL certificates to the SSL Certificate Service console for unified management. This document describes how to upload certificates.

### Note:

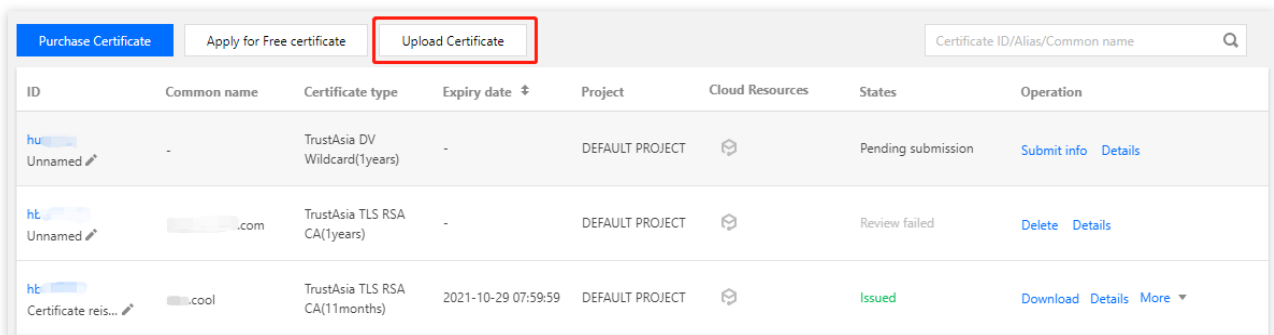
Currently, SM2 certificates cannot be uploaded.

## Prerequisites

You have logged in to the [SSL Certificate Service console](#).

## Directions

1. Click **My Certificates** > **Upload Certificate**.



The screenshot shows the SSL Certificate Service console interface. At the top, there are three tabs: 'Purchase Certificate', 'Apply for Free certificate', and 'Upload Certificate'. The 'Upload Certificate' tab is highlighted with a red border. Below the tabs is a search bar labeled 'Certificate ID/Alias/Common name'. The main content area displays a table of certificates with the following columns: ID, Common name, Certificate type, Expiry date, Project, Cloud Resources, States, and Operation. The table contains three rows of certificate data.

ID	Common name	Certificate type	Expiry date	Project	Cloud Resources	States	Operation
hu- Unnamed	-	TrustAsia DV Wildcard(1years)	-	DEFAULT PROJECT		Pending submission	<a href="#">Submit info</a> <a href="#">Details</a>
ht- Unnamed	.com	TrustAsia TLS RSA CA(1years)	-	DEFAULT PROJECT		Review failed	<a href="#">Delete</a> <a href="#">Details</a>
ht- Certificate reis...	.cool	TrustAsia TLS RSA CA(11months)	2021-10-29 07:59:59	DEFAULT PROJECT		Issued	<a href="#">Download</a> <a href="#">Details</a> <a href="#">More</a>

2. Set information as required in the **Upload Certificate** dialog box.

### Upload Certificate ✕

After your SSL certificates obtained from a third party are uploaded, Tencent Cloud will keep them safe and reliable.

Alias   
Up to 200 characters

Certificate  ⓘ  
Enter the certificate content (including the certificate chain)

Private key  ⓘ  
Enter the private key content

**Alias:** please enter a certificate name.

**Certificate:**

A certificate is usually a file with an extension such as .crt or .pem. Please use a text editor to open the certificate file and copy the certificate to the **Certificate** text box.

The certificate should start with "-----BEGIN CERTIFICATE-----" and end with "-----END CERTIFICATE-----".

The certificate content should include the complete certificate chain.

**Private key:**

A private key is usually a file with an extension such as .key and .pem. Please use a text editor to open the private key file and copy the private key to the corresponding text box.

The private key starts with "-----BEGIN (RSA) PRIVATE KEY-----" and ends with "-----END (RSA) PRIVATE KEY-----".

3. Click **Upload** to upload the certificate to the certificate list.

## Subsequent Operations

You can deploy the uploaded certificate to a cloud service.

# Secured Seal

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## What is a Secured Seal?

Norton Secured Seal, provided by the Secure Site SSL Certificates, is the most recognized mark of trust on the internet. An individual user survey conducted by Secure Site shows that Norton Secured Seal enjoys a high reputation and high degree of trust among owners of e-commerce sites and other privacy-conscious websites. An independent survey conducted in January 2013 also shows that Norton Secured Seal makes individual users to highly trust the internet.



## Reasons for Using a Secured Seal

Norton Secured Seal shows up nearly one billion times per day in 170 countries and regions.

Expanding online business by gaining customer recognitions: according to an international online consumer study, 90% of respondents said they were likely to continue purchasing online if they saw Norton Secured Seal during the checkout process. In situations where there are other seals or no seal, the percentage is significantly lower.

Globally, Norton Secured Seal is displayed next to the trusted web links in search results on more than 40 million desktops with Norton Safe Web.

Secure Site's robust PKI infrastructure, including financial-grade data centers and disaster recovery features, provides users with unparalleled data protection and availability.

This seal is visible proof of your commitment to enforcing PCI compliance when e-commerce sites must verify identity and encrypt transaction communications across its site to protect customer data.

# CSR Management

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## Use cases

CSR is short for Certificate Signing Request. To obtain an SSL certificate, you need to first generate a CSR file and submit it to the certificate authority (CA). A CSR file contains a public key and a distinguished name and is usually generated from a web server. A pair of public and private keys for encryption and decryption will be created at the same time. This document describes how to generate and manage CSR files.

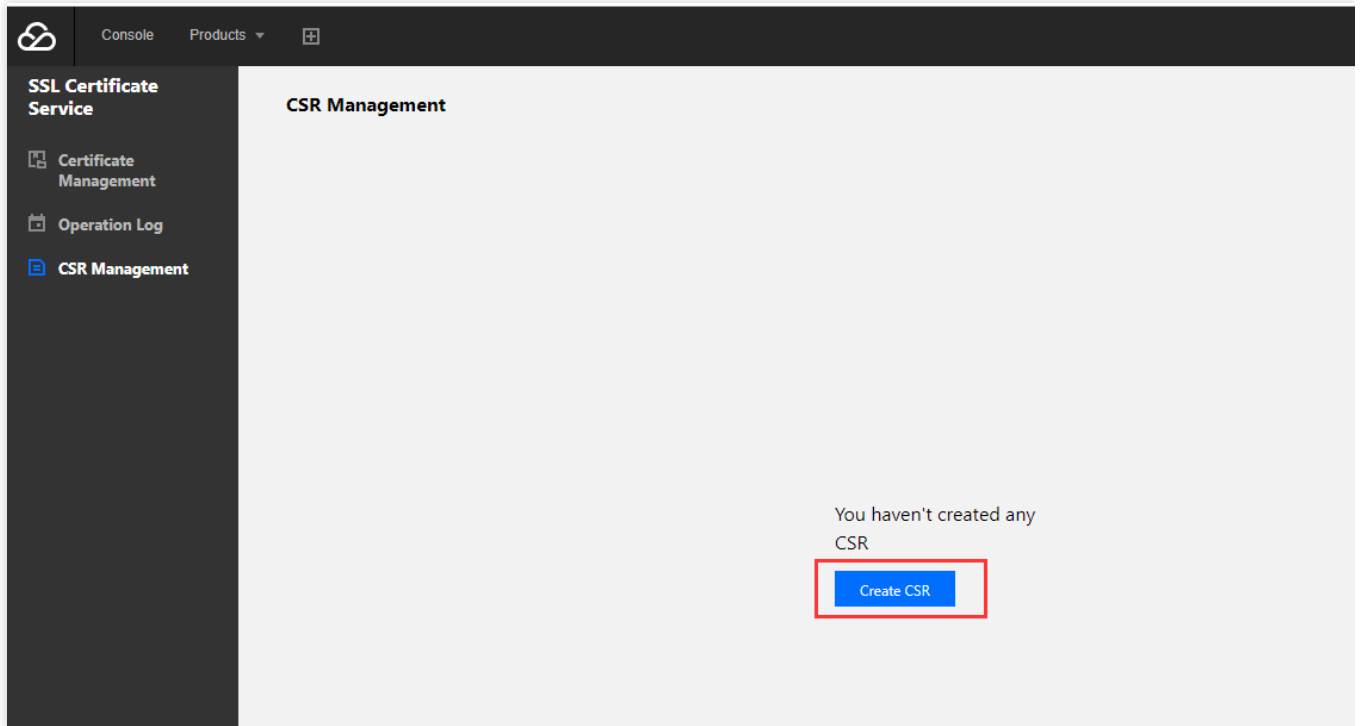
## Prerequisites

You have logged in to the [SSL Certificate Service Console](#).

## Directions

### Generate a CSR

1. Select **SSL Certificate Service** > **CSR Management** and click **Create CSR**.



2. Enter the relevant information, as shown below:

**← Create CSR**

Certificate Type:  Server certificate

\* Domain name `https://`  (e.g. myssl.com)

\* Organization Name:   
For DV certificates, enter the English full name; for OV or EV certificates, enter the English full name or the Chinese full name on the business license.

\* Organizational Unit (OU):  (e.g. IT Dept)

Email (E):

\* State/Province (S):  (e.g. Shanghai)

\* City/Locality (L):  (e.g. Shanghai)

\* Country/Region (C):  (ISO two-letter country/region codes. For Mainland China, enter CN.)

Key Algorithm:

Key Strength:

Private Key Password:

#### Main parameters:

**Domain name:** Enter the domain name/wildcard domain name to be bound to the certificate.

**Organization Name:** The legally registered name of your organization. The complete English name must be entered for DV certificates. For OV and EV certificates, please enter the complete English or Chinese name as shown on the business license.

**Organizational Unit:** This field is used to differentiate departments within an organization, such as "Engineering Department " or "Human Resources".

**Email (E):** Your email address, which is optional.

**State/Province (S):** The state or province where your organization is located.

**City/Locality (L):** The city or locality where your organization is registered or located.

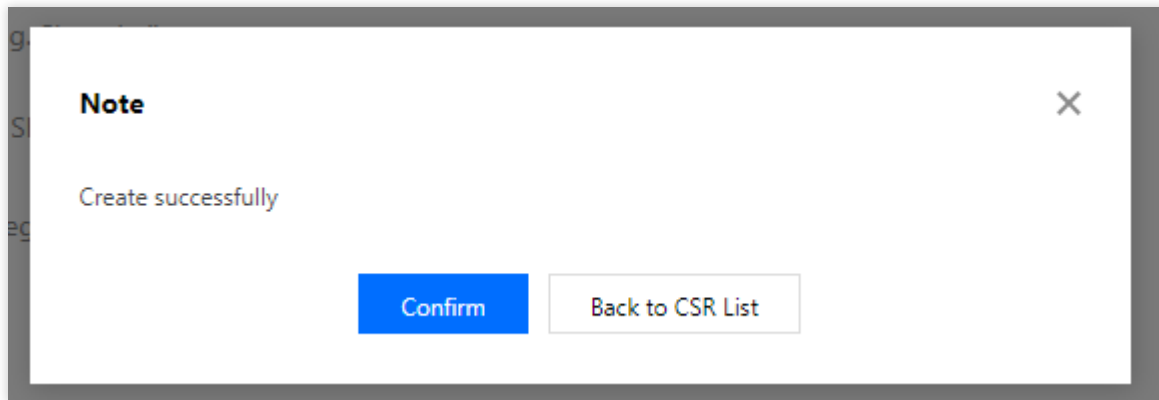
**Country/Region (C):** The code of the country/region where your organization is legally registered, in the format of two letters as defined by the International Organization for Standardization (ISO).

**Key Algorithm:** Optional. Value range: RSA, ECDSA.

**Key Strength:** Optional. Value range: 2048, 4096.

**Private Key Password:** Password for the private key, which is optional.

3. Click **Generate**. The following prompt will pop up when the CSR has been successfully created.



4. Click **Confirm** to view the **CSR File** and **Key File**.



**Generate** **Save**

**CSR File**

Certificate signing request. Please save the following text in a file named SSL.CSR using a text editor (e.g. Notepad).

```
-----BEGIN CERTIFICATE REQUEST-----
MIICkjCCAXoCAQAwTTERMA8GA1UEAwldGVzdC5jb20xDTALBgNVBAoMBHRlc3Qx
DTALBgNVBACgMBHRlc3QxDTALBgNVBAgMBHRlc3QxCzAJBgNVBAYTAkNOMIIBJAN
BgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAA0UeeCZHX/F88k5eFscEZPYmF+rNo
+JWjWW8D+XJNz80FHJsH+F8cihCaXpAI7O0GpO0dl7aAtCBS+8UonFy/7AHQ//hG
QP0+s12HQ73WRbnmTK6CCiK5tNWw0FHdaqjtP7AfCb7gdBOEdcWwNjlcEbydCH
v+6yv0bSCh+wLo9c/XkGrQTEP1h11ik5Db6Ha7oyZsnn9p40bl4dAbhE/fo0K/Vy
lxRLxyYhf8MdhZ90wPSHq1jsVrGes7bK0Hwu0hNciUven21p1PYRbX6Yjy56MUj/
UDxJkOQUwkZTziL+epDLwOYt0NEs4+q9Fo1JLSxl4o2LXouEuwm1DHoeXQIDAQAB
oAAwDQYJKoZIhvcNAQEFBQADggEBAF3AkzSG6L3B9WobqlzhWjTyb+1J8CRUwbM
QQjkYHPRoDI+dW7PKbjTR9PxxXjSktPGpvR0/peMbfStAftVt6UxBzLULVsvQnB2
7wHWZ5eyDqMGpX5xFw05mf/sb511RoLk20c/ol7sgbmVmDiXP+VHzeIAZ6DUgr2o
```

**Key File**

Key file. Please save the following text in a file named SSL.KEY using a text editor (e.g. Notepad).

```
Pg7qTCECgYEA6VfSI1FBHy5lzv2PUxAJaTvROHdnaOOECWXJCK11VYzi33vzEQx
7gib6xJO1XX58LJSQ+dGlznFzsPsmAhTtrCZo9nphPHukg4UJ/74IB/bbQyZp+bz
eS7vRxWyX+gEMpgJzqapJ1tPRU6eUSYIOLdwLuDKSavJ0SRA0Evw+aECgYEA5Zmo
CqkN5R7fkY1tlcDzkNlcHcdn+i4zpZY+ALBxzQd8Nk2y4NB79/loSvmmKGEoHmkX
B4dVHux9CNkZYHke++DZJXdm78Hm24SZpmLtTmMHBofERUIJOovgGU+zYc+1Nc+E
7EYcNkMobkcQxif42wJrvA1H+ZuDXxb5vddJwz0CgYAWIq+mjR25YIGlqSYUghvy
cKs7SRB1Qcf/wDkhhW1sbH39Sjgb74gx8X4NAbKay1NHgxMMv/7GTq+2Gp3yGjAe
z4fzpDNj2jOAhXdiB+z62D7PjHdzFxsXtV0biDjgqLjIN8kOYn7/bckKURfxqMW1
KKmquMZXMUXYvIHEH0uoQKBgBnoS7jgOlwo/qsq3TmvqwwlWTzW+ImViwhdOqPT
RRQqiyijfey2ObbScr07TU4zIFbGHu4fjDBQGQ+9h4qGQEPFrFr47SmSpJ0Sik/n
C8XFW7IV8cSrr1Km4+OXRbN8v4LR5rrOcnKBA3fmFvN1ITR9QnDWws9ch+db7VRJ
ja41AoGAe/X1jOR6A9zduHxNIqFIKAQhxmRxFpNcl4MEfHrmjzK6L5GOAdEnCLk
#T1cbYQkoY/muK6AMmRQl8uWl0iSCe50eHWwY0DEYHUdempaliv1zHGbutg
```

## Manage a CSR

You can view, delete, or perform other operations on a CSR in [CSR Management](#).

1. Click **Details** to view the CSR information.

### CSR Management

[Create CSR](#) [Delete](#)

<input type="checkbox"/> ID	Domain Name	Time Created	Status	Ops
<input type="checkbox"/> 549 <a href="#">↗</a>	test.com	2019-10-30 11:15:23	Created	<a href="#">Det</a>

Total items: 1 Records per page

### Certificate Details ✕

Certificate Type  
Server certificate

City  
test

Country/Region  
CN

CSR

```
-----BEGIN CERTIFICATE REQUEST-----
MIICkjCCAXoCAQAwTTERMA8GA1UEAwwldGVzdC5jb20xDTALBgNVBAoMBHRlc3Qx
DTALBgNVBACgMBHRlc3QxDTALBgNVBAGgMBHRlc3QxCzAJBgNVBAYTaNOMIIBJjAN
BgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAOUeeCZHX/F88k5eFscEZPYmF+rNo
+JWjWW8D+XJNz80FHJsH+F8cihCaXpAI7O0GpO0dl7aAtCBS+8UonFy/7AHQ//hG
QP0+s12HQ73WRbnmTK6CCiJk5tNWw0FHdaajtP7AfCb7gdBOEdcWwNjlcEbydCH
v+6yv0bSCh+wLo9c/XkGrQTEP1h11ik5Db6Ha7oyZsnn9p40bl4dAbhE/fo0K/Vy
lxRLxyYhf8MdhZ90wPSHq1jsVrGes7bK0Hwu0hNciUven21p1PYRbX6Yjy56MUj/
UDxJkOQUwkZTziL+epDLwOYt0NEs4+q9Fo1JLSxl4o2LXouEuwm1DHoeXQIDAQAB
oAAwDQYJKoZIhvcNAQEFBQADggEBAF3AkIzSG6L3B9WobqlzhWjTyb+1J8CRUwbM
QQjkYHPRoDI+dW7PKbjTR9PxxXjSktPGpvR0/peMbfStAftVt6UxBziULVsvQnB2
7wHWZ5eyDqMGpX5xFw05mf/sb51IRoIK20c/ol7sgbmVmDiXP+VHzelAZ6DUgr2o
L9J+tueCNe/v8uHYjvIIKP9C4AcDEOM8vvJXawTVsF+/g72GQdn6DFqo77kEAvI9
TGxJZLcEA46Vy8REtyhf1tLgdJwRPWZFeiL6Ql6TRZjNMMgdphHmvmvU0vA39iKTj
FbvAxENAwIWqNR2Q6OSNZ7TyZMj9dNR351Eh9kyhhq2T6Ca1iV4=
-----END CERTIFICATE REQUEST-----
```

Organizational Unit  
test

Domain Name  
test.com

email

Key Algorithm  
RSA

Key Strength  
2048

Certificate ID  
549

Private Key Password

State/Province

2. Select a CSR and click **Delete** to delete it.

**CSR Management**

Create CSR **Delete**

<input checked="" type="checkbox"/> ID	Domain Name	Time Created	Status
<input checked="" type="checkbox"/> 549	test.com	2019-10-30 11:15:23	Created

Total items: 1 Records per page

3. Add remarks to a CSR to distinguish the CSRs used for different projects.

**CSR Management**

Create CSR Delete

<input type="checkbox"/> ID	Domain Name	Time Created	Status
<input type="checkbox"/> 549	test.com	2019-10-30 11:15:23	Created

Total items: 1 Records per page