

Receiving and importing Let's Encrypt SSL certificate

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Let's Encrypt is a certification center that automatically issues free cryptographic certificates. You can receive and import such a certificate to your WCS server as described below:

Receiving SSL certificate using certbot

Installing Certbot

Centos

1. Install epel-release repository

on Centos 7

```
yum install epel-release
```

on Centos 8

```
sudo dnf install https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm
```

2. Install certbot

on Centos 7

```
yum install certbot python2-certbot
```

on Centos 8

```
sudo dnf install certbot python3-certbot
```

Ubuntu

Install certbot by the following command

```
sudo apt-get install certbot
```

Other OS

Install certbot by [official manual](#)

Receiving SSL certificate

1. Open HTTP port 80 and HTTPS port 443 for incoming connections on server instance, for certbot check the server properly.

2. Run certbot

If there is a web server on the same server with WCS, run

```
sudo certbot certonly --apache
```

or

```
sudo certbot certonly --nginx
```

If WCS only is installed to the server, run

```
sudo certbot certonly --standalone
```

This will request all the necessary information and download SSL certificate files

If you received the certificate successfully, proceed to the next step. If any errors occurred, refer to the [certbot](#) documentation.

3. Make sure the `/etc/letsencrypt/live/yourdomain/` folder on your server has the following files:

```
cert.pem  
chain.pem  
fullchain.pem  
privkey.pem
```

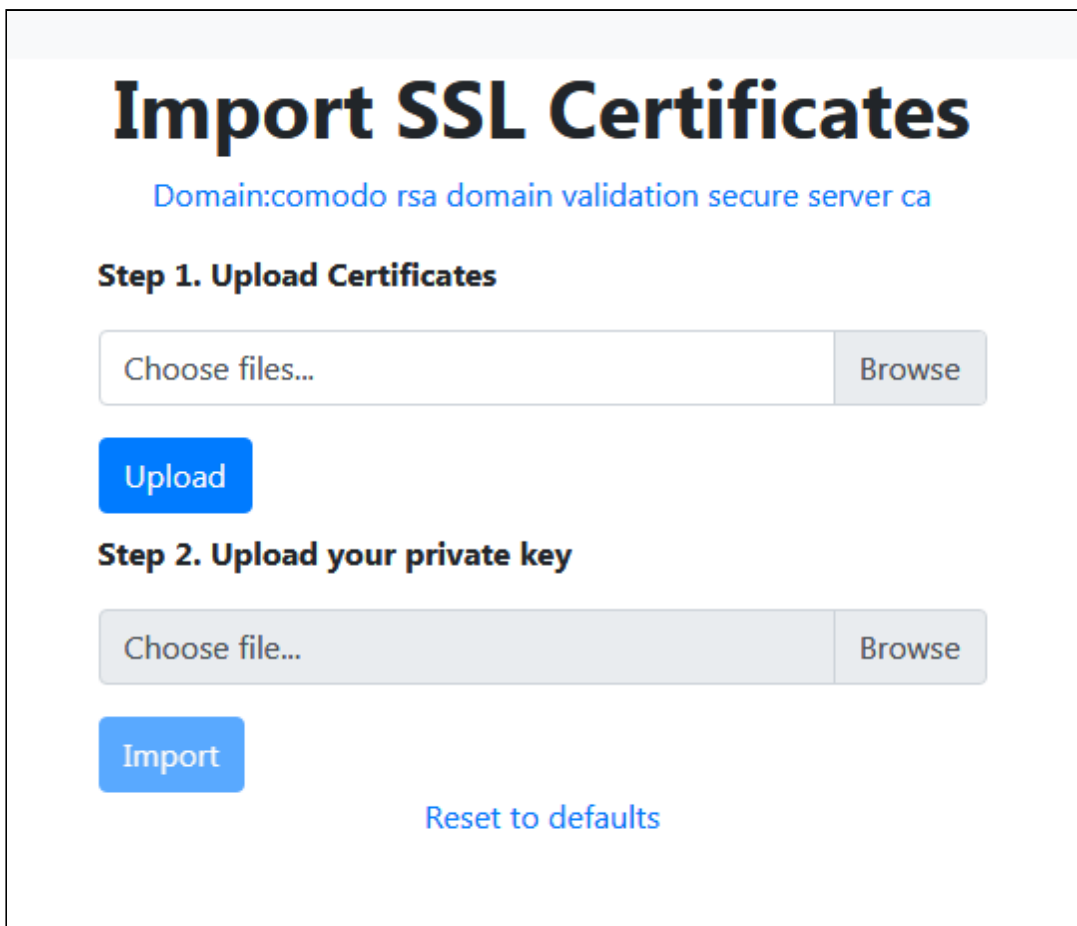
Copy these files to your computer.

Importing SSL certificate to WCS storage

1. Open the web interface of WCS. Select "Security" in the upper menu, then "Certificates":



2. On the import page upload the certificate file fullchain.pem and the key file privkey.pem:



Restart the WCS server to apply new settings. After restarting the server, open <https://yourdomain:8443>. If the certificate was imported correctly, you should see that the browser accept the certificate of the WCS server.

If importing of the certificate failed with some errors, proceed to the [keytool](#) importing.

3. Remove the self-signed certificate from the keystore

```
keytool -delete -alias selfsigned -keystore
/usr/local/FlashphonerWebCallServer/conf/wss.jks
```

4. Create a new keystore based on the certificate and the private key

```
openssl pkcs12 -export -in /etc/letsencrypt/live/yourdomain/fullchain.pem -
inkey /etc/letsencrypt/live/yourdomain/privkey.pem -out
/etc/letsencrypt/live/yourdomain/pkcs.p12 -name yourdomain
```

At this stage you need to enter the password from your private key test.flashphoner.com.key as well as set a password for the keystore itself. Here we set 'password'.

```
Enter pass phrase for yourdomain.key: *****
Enter Export Password: password
```

5. Import the newly created keystore to the existing wss.jks

```
keytool -importkeystore -srckeystore
/etc/letsencrypt/live/yourdomain/pkcs.p12 -srcstoretype PKCS12 -destkeystore
/usr/local/FlashphonerWebCallServer/conf/wss.jks
```

At this stage you have to enter passwords from the imported keystore and the wss.jks keystore.

```
Enter destination keystore password: password
Enter source keystore password: password
Entry for alias yourdomain successfully imported.
Import command completed: 1 entries successfully imported, 0 entries failed
or cancelled
```

[Restart the WCS server](#) to apply the new settings. After restarting the server, open <https://yourdomain:8443> again. If certificates are imported correctly, you should see that the browser accepts the WCS server certificate.

Attachments:

- [wsc52-SSL-menu.PNG](#) (image/png)
- [wsc52-SSL-import.PNG](#) (image/png)