



Using OpenSSL
to generate CSR and
getting a signed Certificate





Overview

The purpose of this document is to supply guidance and best practice solutions to facilitate the successful creation of a Certificate Signing Request (CSR), Private Key and eventual Signed Certificate for use in Jamf Pro

1. Open Safari, and navigate to OpenSSL CSR Creation <https://www.digicert.com/easy-csr/openssl.htm>
2. Complete the Certificate Details
3. Click Generate

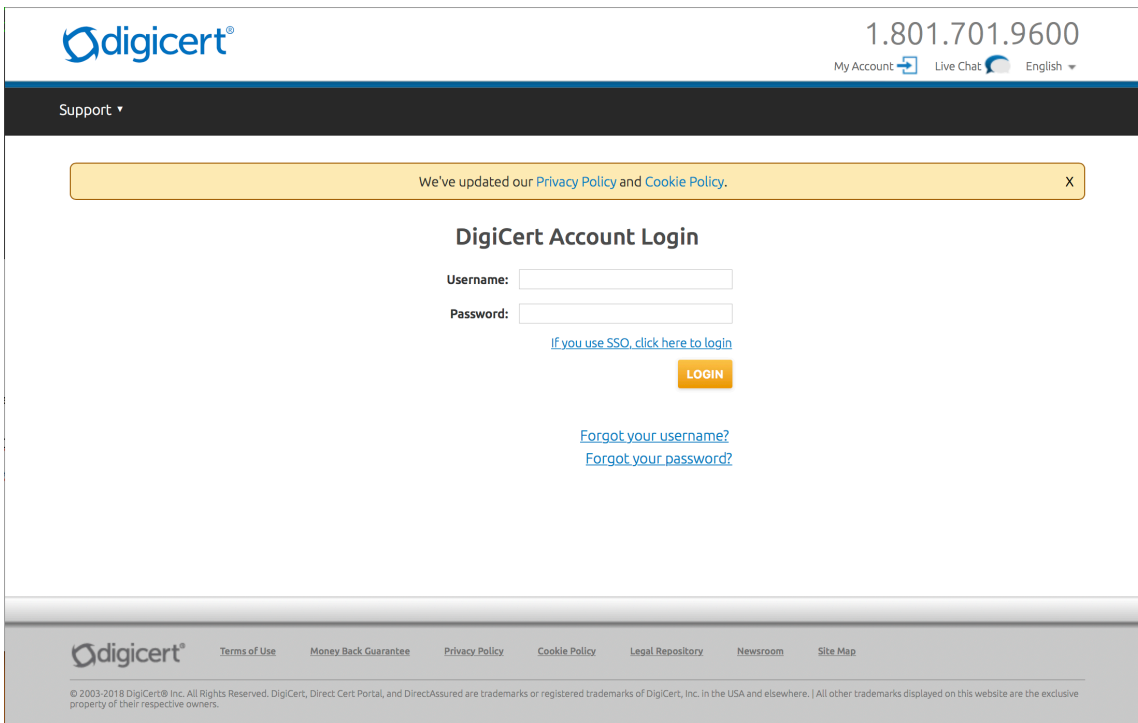
4. Copy and paste this command into a terminal session on your computer.
 - In this example the CSR will be written to deploy_hcstechgroup_com.csr.
 - NOTE: This will get saved to your working directory. IE /Users/YOURUSERNAME

```

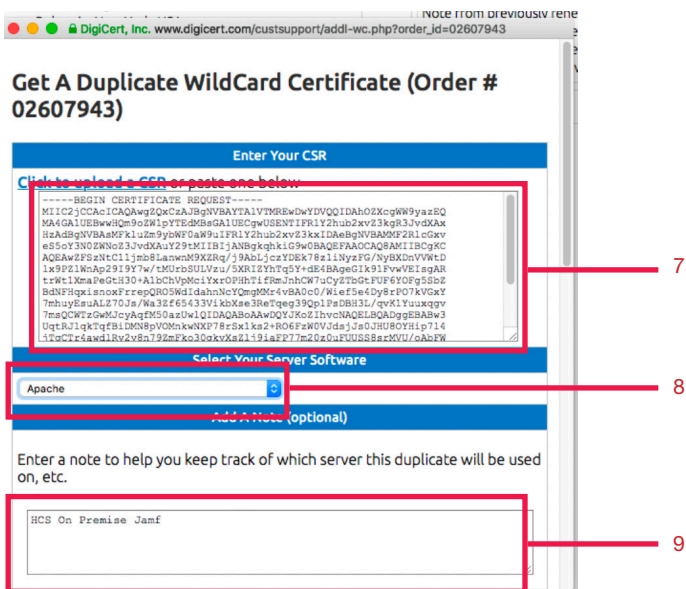
Craig-A-Rama:~ ccohen$ openssl req -new -newkey rsa:2048 -nodes -out deploy_hcstechgroup_com.csr
-keyout deploy_hcstechgroup_com.key -subj "/C=US/ST=New York/L=Bohemia/O=HCS Technology Group/O=Information Technology/CN=deploy.hcstechgroup.com"
Generating a 2048 bit RSA private key
.....+++
.....+++
writing new private key to 'deploy_hcstechgroup_com.key'
-----
Craig-A-Rama:~ ccohen$
    
```



5. Open Safari, navigate to your Certificate Authority

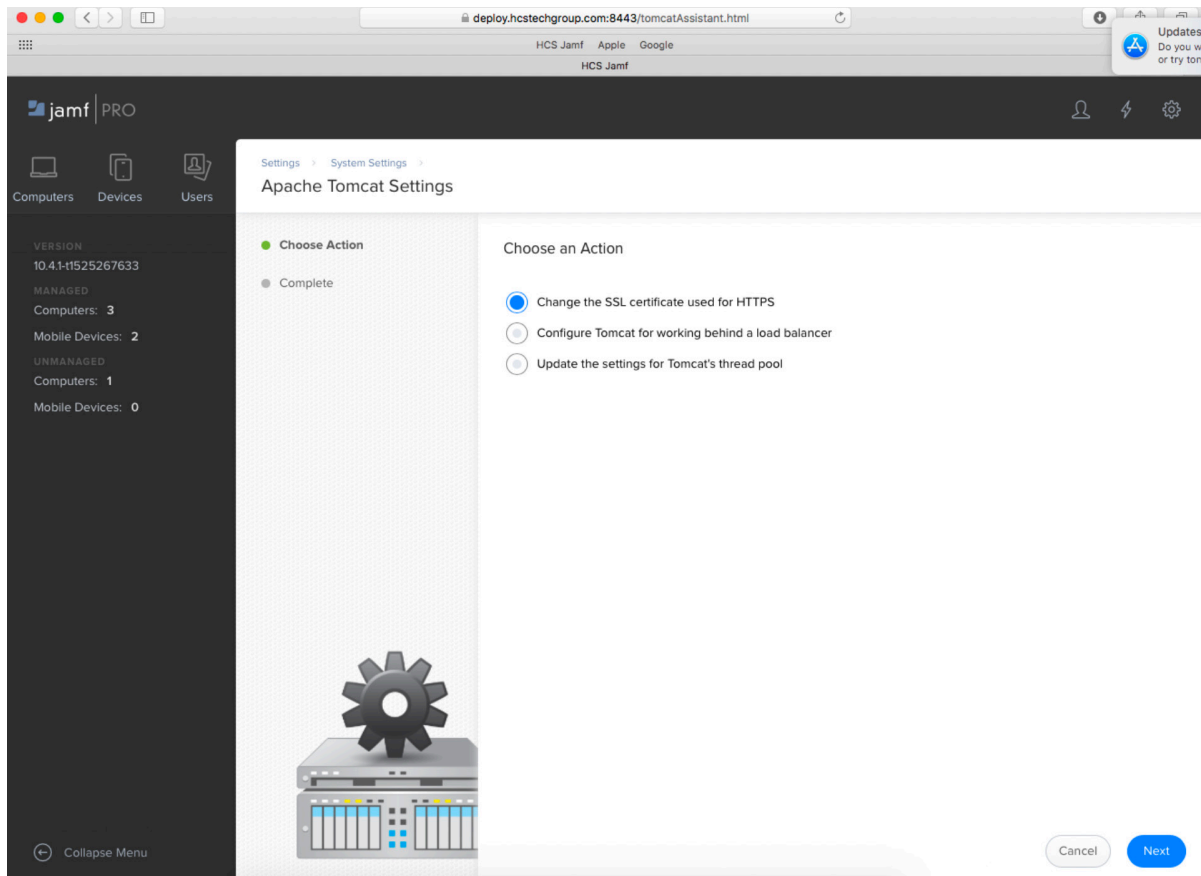


6. Depending on your requirements you will choose Re-Key or Get Duplicate
7. Upload CSR
8. For Select Server Software, choose Apache
9. Add Notes and Specify subdomain
10. Click Generate



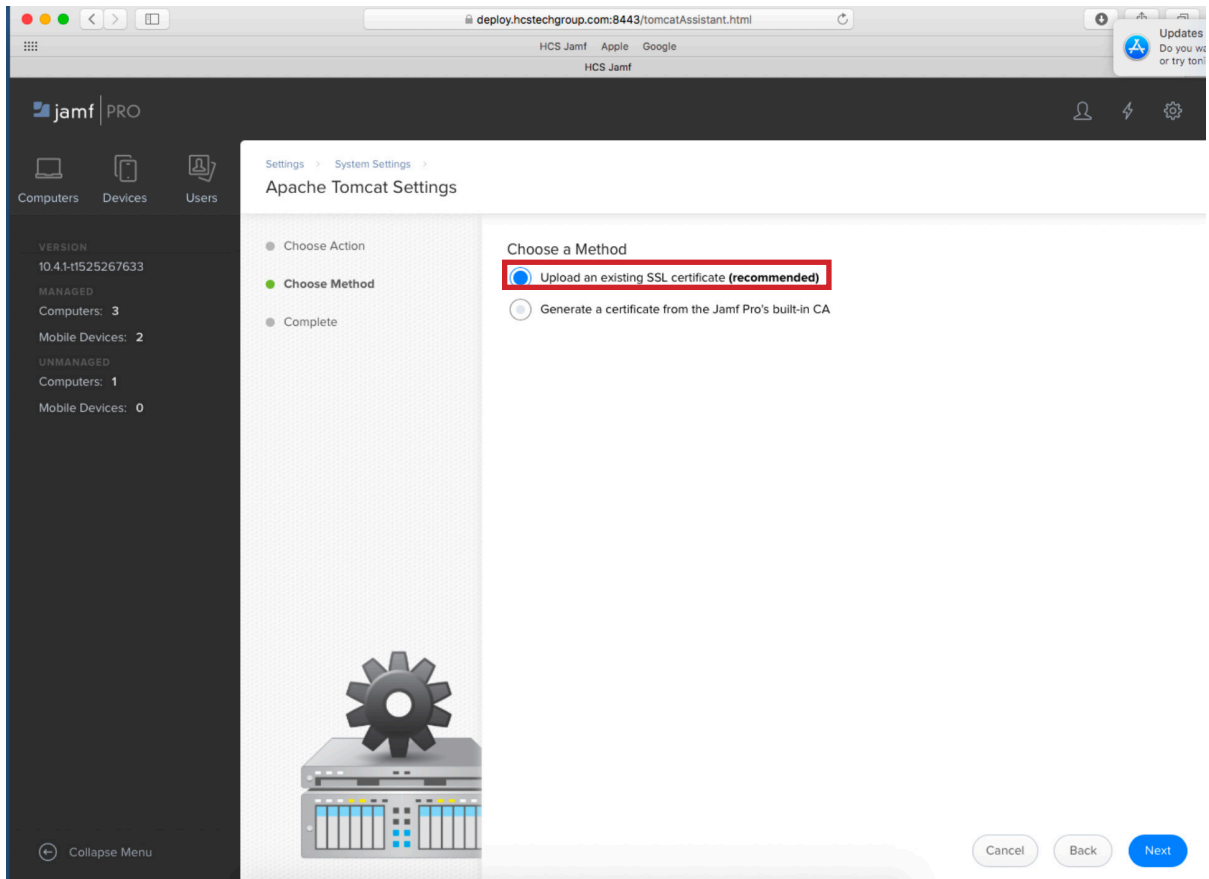


11. Once the Certificate Authority confirms the creation of the signed certificate(s), download the files and put them in the same directory as the CSR and Private Key.
 - This will allow simpler commands, unless you would prefer to specify the path to the file(s) outside that directory.
12. Open Terminal
13. At the prompt, type `openssl pkcs12 -export -out certificate.pfx -inkey privateKey.key -in certificate.crt -certfile DigiCertCA.crt`
 1. Just update the following:
 - `certificate.pfx` (the name you would like the final file)
 - `privateKey.key` (your private key file name)
 - `certificate.crt` (your primary certificate name)
 - IE: For a .pfx format: `openssl pkcs12 -export -out deploy.pfx -inkey deploy_hcstechgroup_com.key -in star_hcstechgroup_com.crt -certfile DigiCertCA.crt`
 - IE: For a .p12 format: `openssl pkcs12 -export -out deploy.p12 -inkey deploy_hcstechgroup_com.key -in star_hcstechgroup_com.crt -certfile DigiCertCA.crt`
 - NOTE: You will need to provide a Keystore Password. This password will be used in a later step.
14. Open Safari Log into Jamf Pro
15. Select All Settings > System Settings > Apache Tomcat Settings
16. Select Edit
17. Select Change the SSL certificate used for HTTPS



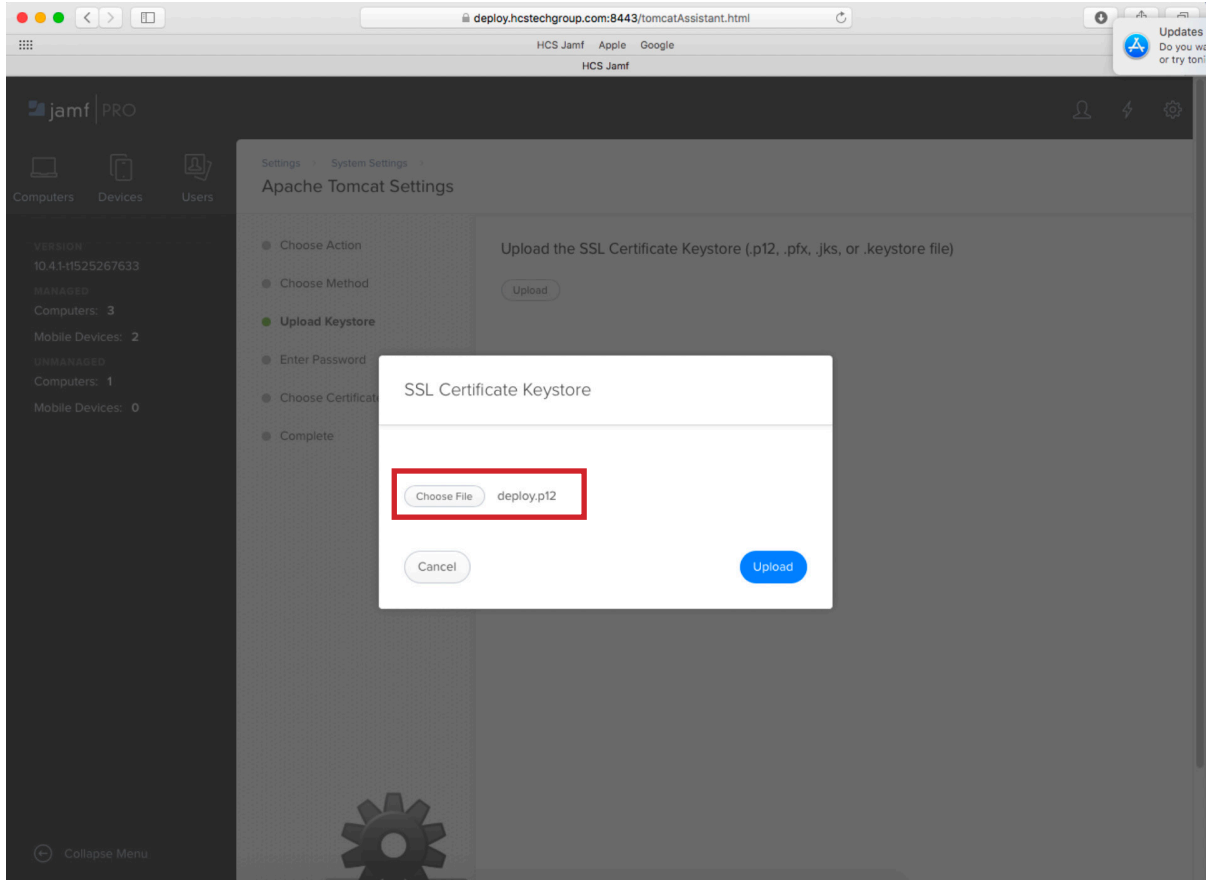


18. Upload an existing SSL Certificate



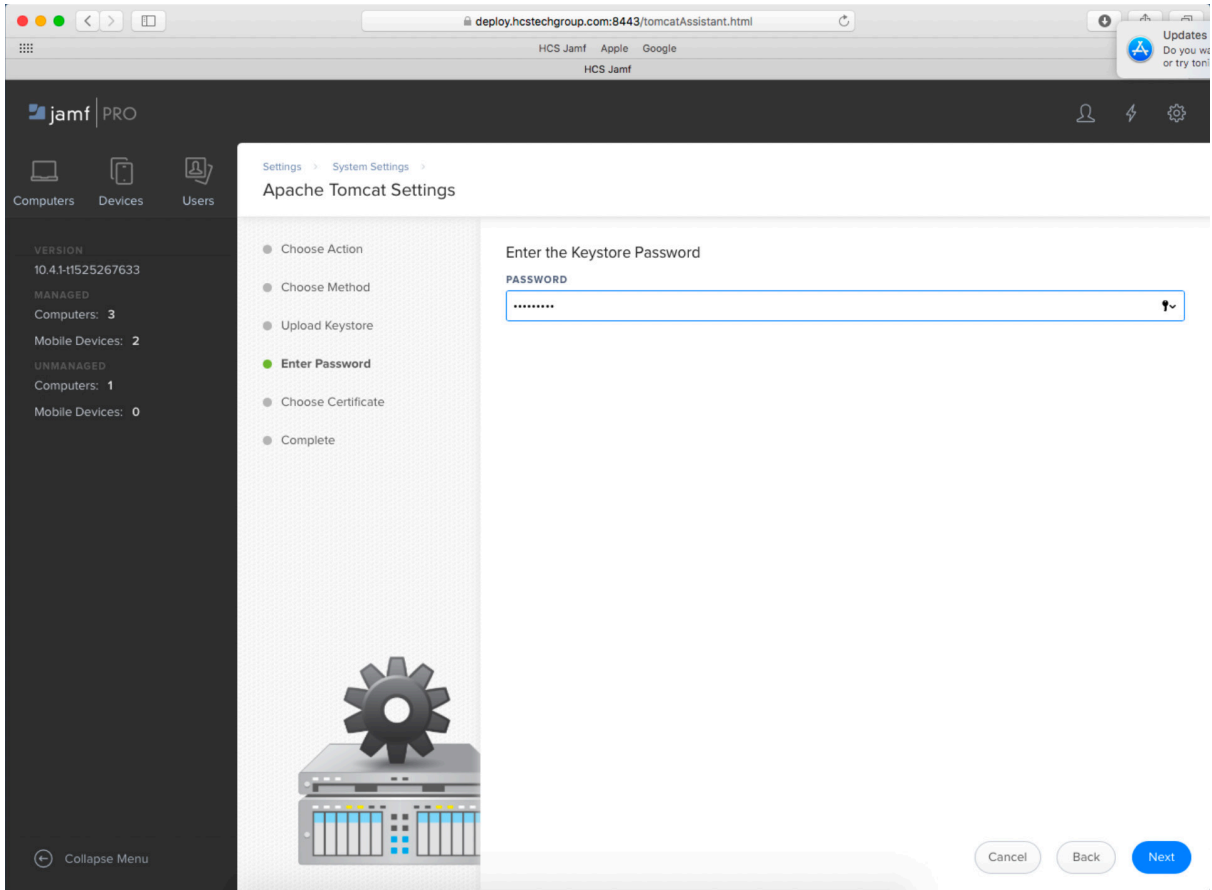


19. Choose the p12 exported from the previous steps and click Upload





20. Enter the Keystore Password and Click Next



21. You have completed the steps in generating a SSL certificate and uploading it to your Jamf server.