

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

Certificate Details		Information
Common Name:	deploy.hcstechgroup.com	State
Organization:	HCS Technology Group	Your IP appears to be in the USA, so we've
Department:	Information Technology	provided a States drop-down list for your
City:	Bohemia	a location outside of the USA, you can enter
State / Province:	New York	anything into the list. It will accept any state name
Country:	USA	v you type.
Key Size:	RSA 2048 (recommended)	×
	Generate	te

- 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

Certificate Details			Information
Common Name:	deploy.hcstechgroup.com		Now just copy and paste this command into
Organization:	HCS Technology Group		terminal session on your server. Your CSR wil
Department:	Information Technology		be written to deploy_hcstechgroup_com.csr.
City:	Bohemia		openssl req -new -newkey rsa:2048 -nodes
State / Province:	New York	~	-out deploy_hcstechgroup_com.csr -keyout deploy_hcstechgroup_com.key -subj
Country:	USA	~	"/C=US/ST=New York/L=Bohemia/O=HCS
Key Size:	RSA 2048 (recommended)	~	Technology/CN=deploy.hcstechgroup.com"
	Ge	nerate	





5. Open Safari, navigate to your Certificate Authority

Ødigicert °	1.801.701.9600 My Account - Live Chat C English →	
Support *		
We've updated our Privacy Policy and Cookie Policy.	x	
DigiCert Account Login		
Username: Password: If you use SSO, click here to login LOGIN		
Forgot your username? Forgot your password?		
Cookie Policy Legal Repository Newsroom Cookie Policy Legal Repository Newsroom O 2003-2018 DigiCert® Inc. All Rights Reserved. DigiCert, Direct Cert Portal, and DirectAssured are trademarks or registered trademarks of DigiCert, Inc. In the USA and elsev property of their respective owners.	Site Map where. All other trademarks displayed on this website are the exclusive	

- 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

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20. Enter the Keystore Password and Click Next

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VERSION 10.4.1+1525267633 MANAGED Computers: 3 Mobile Devices: 2 UNMANAGED Computers: 1 Mobile Devices: 0	 Choose Action Choose Method Upload Keystore Enter Password Choose Certificate Complete 			۴~
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21. You have completed the steps in generating a SSL certificate and uploading it to your Jamf server.