

ةوقباسللا ةوطخلال في هبحسب تمق يذل.

Web Server Certificate
13 Jul 2024 12:30:30 AM
CSR | Certificate

Common Name

Organizational Unit

Organization

City

State

2-Letter Country Code

Validity

في حضورم وه امك قصلللاوخرسنلل تقوؤملا نزلخملا لىل ائيدح هؤاشنل مت يذل CSR خسنا 3. ةروصللا.

Web Server Certificate
13 Jul 2024 12:30:30 AM
CSR | Certificate

CSR

```
-----BEGIN NEW CERTIFICATE REQUEST-----
MIICsjCCAzoCAQAwbTElMAkGA1UEBhMCVVMxMzA1BgNVBAGTAkNBMRwDwYDVQOH
EwhTYW4gSm9zZTEwMBQGA1UEChMNQ21zY28gU31zdGVtczEUMBIGA1UECmMLQ21z
Y28gU0RXQU4xEDA0BgNVBAMTB3ZtYW5hZ2UwggEiMA0GCSqGSIb3DQEBAQUAA4IB
DwAwggEKAoIBAQCRRdIKGUYuDwobn60PeDqf96d+r5z66VQ8NBTBBhgWZgG57J7
YIY9yNF5oSb+blxUEXb61Wntq7qSHSszJhFDX0BaL4/c9110Qped3yDElCE0ly3oH
y88yg7TIZjnmz+j8Io92cRXnZLZ9YJwfs9PwEF0Z/4Gw5QIkukdAmLmkeKjOWD2A
4pG2sV8Og+hnhUw8tJ1rKzQKsJ2JmD+ikeZbXu36iZvdKJB34iM2AsmsRbJhUFF
uJUU705E0z1nF2SBCJ+fpf7ze75dQRrBT0PA23QRobQEeg5wSMc+G//jD26zBCNg
IEyUAX0/0NQfOqtMmcBm7QJDESseOSufv4b9AgMBAAGgADANBgkqhkiG9w0BAQsF
AAOCAQEAK2BenHnfYuW1agdcYrZJD6+uGC6fNfI6qqmvv9XEPFFW0QfPhu8rESyY
K3qgf/ED+iCXEk/hudnf09vZ6gygM+P8a/zN3+J3VM5zCb6tn7vM0/cytcJONPtU
mnZGpDO+XjZDDLymS6j1B+h05gXeYyQ1t4Qv/s2H8jPhIWtraV376E+S9o318cva
7D7yp3W+ce5ItHs9ObKWOaexVsyPAV4UsrDaVsfsbyU97G2rCXqmMgRLJdBwZofg
04qsgrC8qG28aue1Q88XPa/HQtP0WB/Pxg7oe91s59Je/ETsMkR3vt7ag1emyXAJ
nal67+T/QWgLSJB2pQuPho51Mba55w==
-----END NEW CERTIFICATE REQUEST-----"

```

لىل ع فلملا في CSR مادختساب تقوؤملا نزلخملا لىل وئح قصلللاو vshell لاخدا ب مق م 4. vManage رما نم تام لي لت مادختساب.

```
vmanage#
vmanage# vshell
vmanage:~$ mkdir web
vmanage:~$ cd web
vmanage:~/web$ echo "-----BEGIN NEW CERTIFICATE REQUEST-----
> MIICsjCCAzoCAQAwbTElMAkGA1UEBhMCVVMxMzA1BgNVBAGTAkNBMRwDwYDVQOH
> EwhTYW4gSm9zZTEwMBQGA1UEChMNQ21zY28gU31zdGVtczEUMBIGA1UECmMLQ21z
> Y28gU0RXQU4xEDA0BgNVBAMTB3ZtYW5hZ2UwggEiMA0GCSqGSIb3DQEBAQUAA4IB
> DwAwggEKAoIBAQCRRdIKGUYuDwobn60PeDqf96d+r5z66VQ8NBTBBhgWZgG57J7
> YIY9yNF5oSb+blxUEXb61Wntq7qSHSszJhFDX0BaL4/c9110Qped3yDElCE0ly3oH
> y88yg7TIZjnmz+j8Io92cRXnZLZ9YJwfs9PwEF0Z/4Gw5QIkukdAmLmkeKjOWD2A
> 4pG2sV8Og+hnhUw8tJ1rKzQKsJ2JmD+ikeZbXu36iZvdKJB34iM2AsmsRbJhUFF
> uJUU705E0z1nF2SBCJ+fpf7ze75dQRrBT0PA23QRobQEeg5wSMc+G//jD26zBCNg
> IEyUAX0/0NQfOqtMmcBm7QJDESseOSufv4b9AgMBAAGgADANBgkqhkiG9w0BAQsF
> AAOCAQEAK2BenHnfYuW1agdcYrZJD6+uGC6fNfI6qqmvv9XEPFFW0QfPhu8rESyY
> K3qgf/ED+iCXEk/hudnf09vZ6gygM+P8a/zN3+J3VM5zCb6tn7vM0/cytcJONPtU
> mnZGpDO+XjZDDLymS6j1B+h05gXeYyQ1t4Qv/s2H8jPhIWtraV376E+S9o318cva
> 7D7yp3W+ce5ItHs9ObKWOaexVsyPAV4UsrDaVsfsbyU97G2rCXqmMgRLJdBwZofg
> 04qsgrC8qG28aue1Q88XPa/HQtP0WB/Pxg7oe91s59Je/ETsMkR3vt7ag1emyXAJ
> nal67+T/QWgLSJB2pQuPho51Mba55w==
> -----END NEW CERTIFICATE REQUEST-----" > web_cert.csr
```

5. رما مادختساب حيحص لكش ب CSR ظفح نم دكأت.

```
vmanage:~/web$ cat web_cert.csr
-----BEGIN NEW CERTIFICATE REQUEST-----
MIICsjCCAzoCAQAwbTElMAkGA1UEBhMCVVMxMzA1BgNVBAGTAkNBMRwDwYDVQOH
EwhTYW4gSm9zZTEwMBQGA1UEChMNQ21zY28gU31zdGVtczEUMBIGA1UECmMLQ21z
Y28gU0RXQU4xEDA0BgNVBAMTB3ZtYW5hZ2UwggEiMA0GCSqGSIb3DQEBAQUAA4IB
```

```
DwAwggEKAoIBAQCRRdIKGUyUdwobn60PeDqfq96d+r5z66VQ8NBTBBhgwZgG57J7
YIY9yNF5oSb+blxUEXb6lWntq7qSHSszJhFDX0BaL4/c91lOQped3yDElCE0ly3oH
y88yg7TIZjnmz+j8Io92cRXnZLZ9YJwfs9PwEF0Z/4Gw5QIkukdAmLmkeKjOWD2A
4pG2sV8Og+hnhUw8tJ1rKzQKsJ2JmD+iKeZbXu36iZvdKJB34iM2AsmsRbJhUff
uJUU705E0z1nF2SBCJ+fpf7ze75dQRrBT0PA23QRobQEEg5wSMc+G//jD26zBCNg
IEyUAX0/0NQfOqtMmcBm7QJDESseOSufv4b9AgMBAAGgADANBgkqhkiG9w0BAQsF
AAOCAQEAK2BenHnfYuWlagdcYrZJD6+uGC6fNFI6qqmvv9XEPFFW0QfPhu8rESyY
K3qgf/ED+iCXEk/hudnf09vZ6gygM+P8a/zN3+J3VM5zCb6tn7vM0/cytcJONPtU
mnZGpDO+XjZDDLYmS6j1B+h05gXeYyQ1t4Qv/s2H8jPhIWTraV376E+S9o318cva
7D7yp3W+ce5ItHs9ObKWOaexVsyPAV4USrDaVsfSbyU97G2rCXqmMgRLJdBwZofg
04qsgRc8qG28aue1Q88XPa/HQtp0WB/Pxg7oe91s59Je/ETsMkR3vt7aglemyXAJ
nal67+T/QWgLSJB2pQuPHo51MbA55w==
-----END NEW CERTIFICATE REQUEST-----
```

```
vmanage:~/web$
```

6. rootca.key مساب رذجال ةداهشل حاتفم عاشنإب مق، OpenSSL ةدعاسمب.

```
vmanage:~/web$ openssl genrsa -out rootca.key 2048
Generating RSA private key, 2048 bit long modulus
```

```
..
.....
e is 65537 (0x10001)
```

```
vmanage:~/web$ ls
rootca.key  web_cert.csr
vmanage:~/web$
```

7. rootca.key مادختساب اهعيقوتو rootca.pem مساب رذجال قدصملا عجرملا ةداهش عاشنإب مق. ةقباسلا ةوطخال يف هؤاشنإ مت يذلا.

```
vmanage:~/web$ openssl req -x509 -new -nodes -key rootca.key -sha256 -days 4000 -out rootca.pem
You are about to be asked to enter information that will be incorporated
into your certificate request.
```

```
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
```

```
-----
Country Name (2 letter code) [AU]:US
State or Province Name (full name) [Some-State]:CA
Locality Name (eg, city) []:San Jose
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Cisco Systems
Organizational Unit Name (eg, section) []:Cisco SDWAN
Common Name (e.g. server FQDN or YOUR name) []:vmanage
Email Address []:
vmanage:~/web$ ls
rootca.key  rootca.pemweb_cert.csr
vmanage:~/web$
```

8. حاتفملاو رذجال قدصملا عجرملا ةداهش عم كب صاخلا CSR لىل عوقو.

```
vmanage:~/web$ openssl x509 -req -in web_cert.csr -CA rootca.pem -CAkey rootca.key -
CAcreateserial -out web_cert.crt -days 4000 -sha256
Signature ok
subject=/C=US/ST=CA/L=San Jose/O=Cisco Systems/OU=Cisco SDWAN/CN=vmanage
Getting CA Private Key
vmanage:~/web$ ls
rootca.key  rootca.pemrootca.srl  web_cert.crt  web_cert.csr
vmanage:~/web$
```

9. cat مادختساب كنكمي. قصللاو خسنلل تقؤملا نزملا لىل ةديج عوقوم ةداهش خسنا. ةعوقوملا ةداهشل ضرعل.

```
vmanage:~/web$ cat web_cert.crt
```


ةمچرتل هذه لوج

ةللأل تاي نقتل نم ةومچم مادختساب دن تسمل اذه Cisco تچرت
ملاعلاء انءمچ يف نيمدختسمل معدى وتحم مي دقتل ةيرشبلاو
امك ةقيد نوك تنل ةللأل ةمچرت لصف أن ةظحال مچرئى. ةصاغل مهتغب
Cisco يلخت. فرتحم مچرت مامدقي يتل ةيفارتحال ةمچرتل عم لالحل وه
ىلإ أمئاد ةوچرلاب يصوت وتامچرتل هذه ةقد نع اهتيلوئسم Cisco
Systems (رفوتم طبارلا) يلصلأل يزي لچنل دن تسمل