

CMX 10.5 SSL證書安裝過程

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簡介

本文將提供有關如何獲取免費SSL證書以及如何在CMX上安裝該證書的示例。本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

必要條件

需求

思科建議您瞭解以下主題：

- 可在外部解析的域名
- 基本linux技能
- PKI (公開金鑰基礎架構) 基礎知識

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- CMX 10.5

準備和備份

Web證書位於以下資料夾中：

```
[root@cmxtry ssl]# pwd
/opt/haproxy/ssl
```

備份舊證書和金鑰：

```
[cmxadmin@cmxtry ssl]$cd /opt/haproxy/ssl/
```

```
[cmxadmin@cmxtry ssl]$su root  
Password: (enter root password)
```

```
[root@cmxtry ssl]# mkdir ./oldcert  
[root@cmxtry ssl]# mv host.* ./oldcert/
```

```
[root@cmxtry ssl]# ls ./oldcert/  
host.key host.pem
```

如果您不太熟悉Linux，可以使用以下方式解釋上述命令：

```
[cmxadmin@cmxtry ssl]$cd /opt/haproxy/ssl/
```

```
[cmxadmin@cmxtry ssl]$su root  
Password: (enter root password)
```

```
[root@cmxtry ssl]# mkdir /opt/haproxy/ssl/oldcert  
[root@cmxtry ssl]# mv host.pem /opt/haproxy/ssl/oldcert/  
[root@cmxtry ssl]# mv host.key /opt/haproxy/ssl/oldcert/
```

```
[root@cmxtry ssl]# ls /opt/haproxy/ssl/oldcert/  
host.key host.pem
```

設定

生成私鑰：

```
openssl genrsa -out cmxtry.com.key 2048
```

```
[root@cmxtry ssl]# openssl genrsa -out cmxtry.com.key 2048  
Generating RSA private key, 2048 bit long modulus  
.....  
.....  
e is 65537 (0x10001)
```

```
[root@cmxtry ssl]# ls  
cmxtry.com.key oldcert
```

使用在上一步中生成的私鑰生成CSR (證書簽名請求)。

```
[root@cmxtry ssl]# openssl req -new -sha256 -key cmxtry.com.key -out cmxtry.com.csr
```

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]:BE

State or Province Name (full name) [Some-State]:

Locality Name (eg, city) []:DIEGEM

Organization Name (eg, company) [Internet Widgits Pty Ltd]:CMXTRY

Organizational Unit Name (eg, section) []:CMXTRY

Common Name (e.g. server FQDN or YOUR name) []:cmxtry.com
Email Address []:avitosin@cisco.com

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:Cisco123
An optional company name []:CMXTRY

```
[root@cmxtry ssl]# ls  
cmxtry.com.csr cmxtry.com.key oldcert
```

顯示CSR:

```
[root@cmxtry ssl]# cat cmxtry.com.csr  
-----BEGIN CERTIFICATE REQUEST-----  
MIIDZTCCAk0CAQAwY0xCzAJBgNVBAYTAKJFMRMwEQYDVQQIDApTb211LVN0YXR1  
MQ8wDQYDVQQHDAZESUVVHRU0xDzANBgNVBAoMBkNNWFRSWTEPMA0GA1UECwwGQ01Y  
VFJZMRMwEQYDVQQDDApjbXh0cnkuY29tMSEwHwYJKoZIhvcNAQkBFhJhdml0b3Np  
bkBjaXNjby5jb20wggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCkEIG0  
AxV/3HxAxUu7UI/LxkTP+DZJvuuu1WgyQ+t1D4r1+k1Wv1eINCJqywg1CKt9vVg  
aiYp4JAKL28TV7rtSKqNFnWDMtTKoYRkYWI3L48r9Mu9Tt3zDCG09ygnQFi6SnmX  
VmKx7Ct/wIkkBXfkq1nq4vqosCry8SToS1PThX/KSuwIF6w2aKj1Fbrw3eW4XJxc  
5hoQFrSsquqmbi5IZWgH/zMZUZTdWYvFc/h50PCBJSaA9HTY0sgUe/nyjHdt+V/l  
alNSh41jsrulhWiPzqbaPW/Fej9/5gtPG5LReWuS20ulAnso4tdcST1vV1etoXJw  
F58S8AqeVrcOV9SnAgMBAAGggZEwFQYJKoZIhvcNAQkCMQgMBkNNWFRSWTAXBgkq  
hkiG9w0BCQcxCGwIQ2lzY28xMjMwXwYJKoZIhvcNAQkOMVIwUDAJBgNVHRMEAjAA  
MBcGA1UdEQQQMA6CDF9fSE9TVE5BTUVfXzAdBgNVHSUEFjAUBgggrBgEFBQcDAQYI  
KwYBBQUHAWIwCwYDVR0PBAQDAgOoMA0GCSqGSIb3DQEBCwUAA4IBAQCBS1fRzbiw  
WBBBN74aWm6Ywk00Yexpr2yCrQhcOswWTujPVvzNP9WadNxu1rw6o3izclGi6D61  
qFsKtchQhnc1vOj7rNI8TInaxIorR2zMy01F2vtJmvY4YQFso9qzmuaxkmttEMFU  
Fj0bxKh6SpvxPh6+BDcwt+kQE5aF3Q6cRIMyKBS2+I5J5eddJ0cdIqTfwZOGD  
5dMDWqHGd7IZyrend8AMPZvNkm3Sbx11Uq+A/fa7f9JZE002Q9h3s13hj3QIPU6s  
w1Pyd66/OX04yYIvMyjJ8xpJGigNWBOvQ+GLvK0ce441h2u2oIoPe60sDOYldL+X  
JsnSbefiJ4Fe  
-----END CERTIFICATE REQUEST-----
```

複製CSR (包括憑證請求行的開始和憑證請求行的結束) 。

以我的實驗室為例，我當時使用的是Comodo公司的免費證書(<https://www.instantssl.com/>)

[OBJ]

