

CMX 10.5 SSL证书安装过程

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简介

本文将举例说明如何获取免费的SSL证书以及如何CMX上安装该证书。本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

先决条件

要求

Cisco 建议您了解以下主题：

- 可从外部解析的域名
- 基本Linux技能
- PKI (公钥基础设施) 基础知识

使用的组件

本文档中的信息基于以下软件和硬件版本：

- CMX 10.5

准备和备份

Web证书位于以下文件夹中：

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

备份旧证书和密钥：

```
[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
```

如果您对Linux不太熟悉，可以通过以下方式解释上述命令：

```
[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
```

配置

生成私钥：

```
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
```

使用您在上一步中生成的私钥生成CSR（证书签名请求）。

```
[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
```

显示CSR:

```
[root@cmxtry ssl]# cat cmxtry.com.csr  
-----BEGIN CERTIFICATE REQUEST-----  
MIIDZTCCAk0CAQAwgY0xCzAJBgNVBAYTAKJFMRMwEQYDVQQIDApTb211LVN0YXR1  
MQ8wDQYDVQQHDAZESUVHRU0xDzANBgNVBAoMBkNNWFRSWTEPMA0GA1UECwwGQ01Y  
VFJZMRMwEQYDVQQDDApjbXh0cnkuY29tMSEwHwYJKoZIhvcNAQkBFhJhdml0b3Np  
bkBjaXNjby5jb20wggeiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCkEig0  
AxV/3HxAxUu7UI/LxkTP+DZJvuuu1WgyQ+t1D4r1+k1Wv1eINcJqywg1CKt9vVg  
aiYp4JAKL28TV7rtSKqNFnWDMtTKoYRkYWI3L48r9Mu9Tt3zDCG09ygnQFi6SnmX  
VmKx7Ct/wIkkBXfkqlnq4vqosCry8SToS1PThX/KSuwIF6w2aKj1Fbrw3eW4XJxc  
5hoQFrSsquqmbi5IZWgH/zMZUZTdWYvFc/h50PCBJsAa9HTY0sgUe/nyjHdt+V/l  
alNsh41jsrulhWiPzqbaPW/Fej9/5gtPG5LReWuS20ulAnso4tdcST1vV1etoXJw  
F58S8AqeVrcOV9SnAgMBAAGggZEwFQYJKoZIhvcNAQkCMQgMBkNNWFRSWTAXBgkq  
hkiG9w0BCQcxCGwIQ21zY28xMjMwXwYJKoZIhvcNAQkOMVIwUDAJBgNVHRMEAjAA  
MBcGA1UdEQQQMA6CDF9fSE9TVE5BTUVfXzAdBgNVHSUEFjAUBgggrBgEFBQcDAQYI  
KwYBBQUHAWIwCwYDVR0PBAQDAgOoMA0GCSqGSIb3DQEBCwUAA4IBAQCBS1fRzbiw  
WBBBN74aWm6Ywk00Yexpr2yCrQhcOsvWTu jPVvzNP9WadNxlrw6o3iZclGi6D61  
qFsKtchQhnc1v0j7rNI8TInaxIorR2zMy01F2vtJmvY4YQFso9qzmuaxkmttEMFU  
Fj0bxKh6SpvxepH6+BDcwt+kQExK5aF3Q6cRIMyKBS2+I5J5eddJ0cdIqTfwZOGD  
5dMDWqHGd7IZyrend8AMPZvNkm3Sbx11Uq+A/fa7f9JZE002Q9h3sl3hj3QIPU6s  
w1Pyd66/OX04yYIvMyjJ8xpJGigNWBOvQ+GLvK0ce441h2u2oIoPe60sDOYldL+X  
JsnSbefiJ4Fe  
-----END CERTIFICATE REQUEST-----
```

复制CSR (包括证书请求行的开头和证书请求行的结尾) 。

在我的实验室中，我使用的是Comodo的免费证书(<https://www.instantssl.com/>)

[OBJ]

