安装CMX 10.5 SSL证书程序

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简介

本文档介绍如何获取免费的SSL证书以及如何在CMX上安装证书

先决条件

要求

Cisco 建议您了解以下主题：

— 可在外部解析的域名

— 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。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

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：

<#root>

```
[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，可以按以下方式解释命令：

```
[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>

```
[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钥生成CSR（证书签名请求）。

<#root>

```
[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-----
MIIDZTCCAk0CAQAwgY0xCzAJBgNVBAYTAkJFMRMwEQYDVQQIDApTb21lLVN0YXRl
MQ8wDQYDVQQHDAZESUVHRU0xDzANBgNVBAoMBkNNWFRSWTEPMA0GA1UECwwGQ01Y
VFJZMRMwEQYDVQQDDApjbXh0cnkuY29tMSEwHwYJKoZIhvcNAQkBFhJhdml0b3Np
bkBjaXNjby5jb20wggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCkEIg0
AxV/3HxAxUu7UI/LxkTP+DZJvvuua1WgyQ+tlD4r1+k1Wv1eINCJqywglCKt9vVg
aiYp4JAKL28TV7rtSKqNFnWDMtTKoYRkYWI3L48r9Mu9Tt3zDCG09ygnQFi6SnmX
```

```
VmKx7Ct/wIkkBXfkq1nq4vqosCry8SToS1PThX/KSuwIF6w2aKj1Fbrw3eW4XJxc
5hoQFrSsquqmbi5IZWgH/zMZUZTdWYvFc/h5OPCBJsAa9HTYOsgUe/nyjHdt+V/l
alNSh41jsrulhWiPzqbaPW/Fej9/5gtPG5LReWuS2OulAnso4tdcST1vVletoXJw
F58S8AqeVrcOV9SnAgMBAAGggZEwFQYJKoZIhvcNAQkCMQgMBkNNWFRSWTAXBgkq
hkiG9w0BCQcxCgwIQ2lzY28xMjMwXwYJKoZIhvcNAQkOMVIwUDAJBgNVHRMEAjAA
MBcGA1UdEQQQMA6CDF9fSE9TVE5BTUVfXzAdBgNVHSUEFjAUBggrBgEFBQcDAQYI
KwYBBQUHAwIwCwYDVR0PBAQDAgOoMA0GCSqGSIb3DQEBCwUAA4IBAQCBslfRzbiw
WBBBN74aWm6YwkO0YexpR2yCrQhcOsxWTujPVvzNP9WaDNxu1rw6o3iZclGi6D61
qFsKtchQhnclvOj7rNI8TInaxIorR2zMyOlF2vtJmvY4YQFso9qzmuaxkmttEMFU
FjObxKh6SpvxePh6+BDcwt+kQExK5aF3Q6cRIMyKBS2+I5J5eddJOcdIqTfwZOGD
5dMDWqHGd7IZyrend8AMPZvNKm3Sbx11Uq+A/fa7f9JZEOO2Q9h3sl3hj3QIPU6s
w1Pyd66/OXO4yYIvMyjJ8xpJGigNWBOvQ+GLvKOce441h2u2oIoPe60sDOYldL+X
JsnSbefiJ4Fe
-----END CERTIFICATE REQUEST-----
```

复制CSR（包括“证书请求开始”行和“证书请求结束”行）。

在实验室中，我使用的是Comodo的免费证书(https://www.instantssl.com/)

OBJ

Free SSL Certificate 90 days
+ **COMODO SSL TrustLogo** 90 days

Step 1: Provide your CSR

You must generate a Certificate Signing Request (CSR) on your webserver. Click here for help generating your CSR. When you have created your CSR you may continue with the enrollment.

After you have generated a CSR using your server software **copy and paste** the CSR text using an **ASCII text editor** into the CSR box below. Your CSR should look something like this:

-----BEGIN CERTIFICATE REQUEST-----
MIIDUDCCArkCAQAwdTEWMBQGA1UEAxMNdGVzdC50ZXN0LmNvbTESMBAGA1UECxMJ
TWFya2V0aW5nMREwDwYDVQQKEwhUZXN0IE9yZzESMBAGA1UEBxMJVGVzdCBDaXR5
(more encoded data).....
Rq+blLr5X5iQdzyF1pLqP1Mck5Ve1eCz0R9/OekGSRno7ow4TVyxAF6J6ozDaw7e
GisfZw40VLT0/6IGvK2jX0i+t58RFQ8WYTOcTRlPnkG8B/uV
-----END CERTIFICATE REQUEST-----

1. Copy and paste your CSR into this box:	
2. Select the server software used to generate the CSR:	Select from list:
3. Select the subscription period for your certificate:	**90 days**

Note: You will be licensed to use this Certificate on an unlimited number of servers.

4. COMODO Newsletter:	Opt in?
5. Comodo HackerGuardian Free Scan:	Include Comodo HackerGuardian Free Scan?

Total Cost: **$0.00**

Next >

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