

如何在思科会议服务器(CMS)中续约过期的数据库群集证书

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简介

本文档介绍如何在思科会议服务器(CMS)上的数据库群集上续订过期（客户端和服务端）证书。

先决条件

使用的组件

思科会议服务器

背景信息

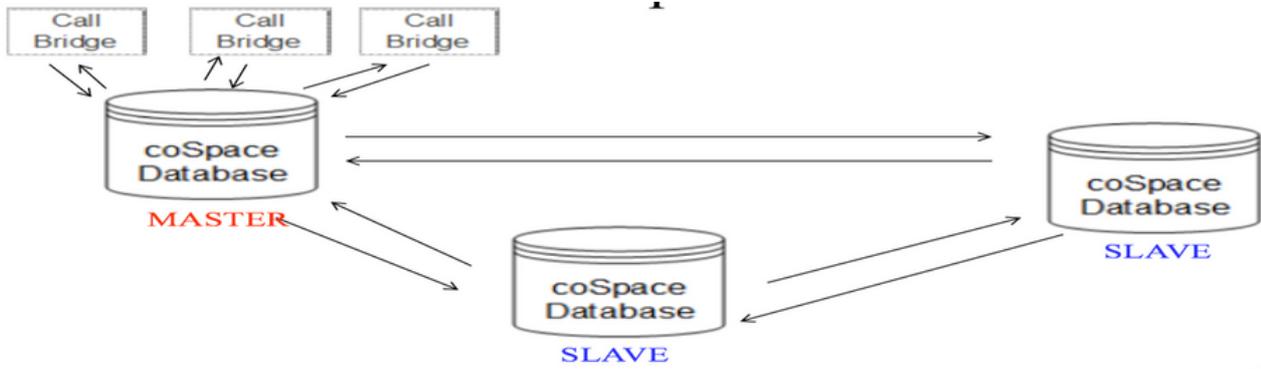
用于在Cisco Meeting Server上创建数据库群集的证书（客户端和服务端）具有到期日期。

证书过期后，群集中的数据库节点将停止相互通信。除非使用CLI命令“数据库群集删除”删除群集，否则无法在CMS数据库群集节点上续订证书。

证书与DB服务关联，这不允许我们进行任何更改，除非集群龙卷风和证书断开。

配置

网络图



程序概述

步骤1.备份集群中的CMS节点

步骤2.通过FTP从cms获取备份文件并存储在本地pc上。

第三步：从群集中删除数据库群集节点。

步骤4.更新证书。

注意：尝试提供与之前使用的证书文件名相同（已过期）。您可能需要从思科会议服务器中删除旧的过期证书，以便新证书生效。

步骤5.再次创建集群数据库集群初始化。

步骤6.按照流程创建集群。

注意：上述步骤将遵循所有从节点，然后在主节点上最后更新

配置过程

步骤1.在“数据库集群状态”的输出中，证书显示CMS数据库群集已过期。

```

cms2> database cluster status
Status                : Disabled
Node in use           : None

Interface              : a

Certificates
  Server Key           : dbclusterserver.key
  Server Certificate   : dbclusterserver.cer (expired)
  Client Key           : dbclusterclient.key
  Client Certificate   : EXPRSVR.cer (expired)
  CA Certificate       : CA.cer
  
```

步骤2.运行“pki inspect <cert name>”命令验证证书到期。

```
cms2>
cms2> pki inspect EXPRSVR.cer
Checking ssh public keys...not found
Checking user configured certificates and keys...found
File contains a PEM encoded certificate
Certificate:
  Data:
    Version: 3 (0x2)
    Serial Number:
      11:02:ce:3b:00:06:00:00:00:a7
    Signature Algorithm: sha1WithRSAEncryption
    Issuer: DC=com, DC=uctplab, CN=uctplab-TPWIN2008R2DC-CA
    Validity:
      Not Before: Mar  9 08:47:17 2015 GMT
      Not After : Mar  9 08:57:17 2017 GMT
    Subject: C=IN, ST=KA, L=BLR, O=Siigo, OU=AC, CN=VCScmRA.S.com
    Subject Public Key Info:
      Public Key Algorithm: rsaEncryption
      Public-Key: (4096 bit)
```

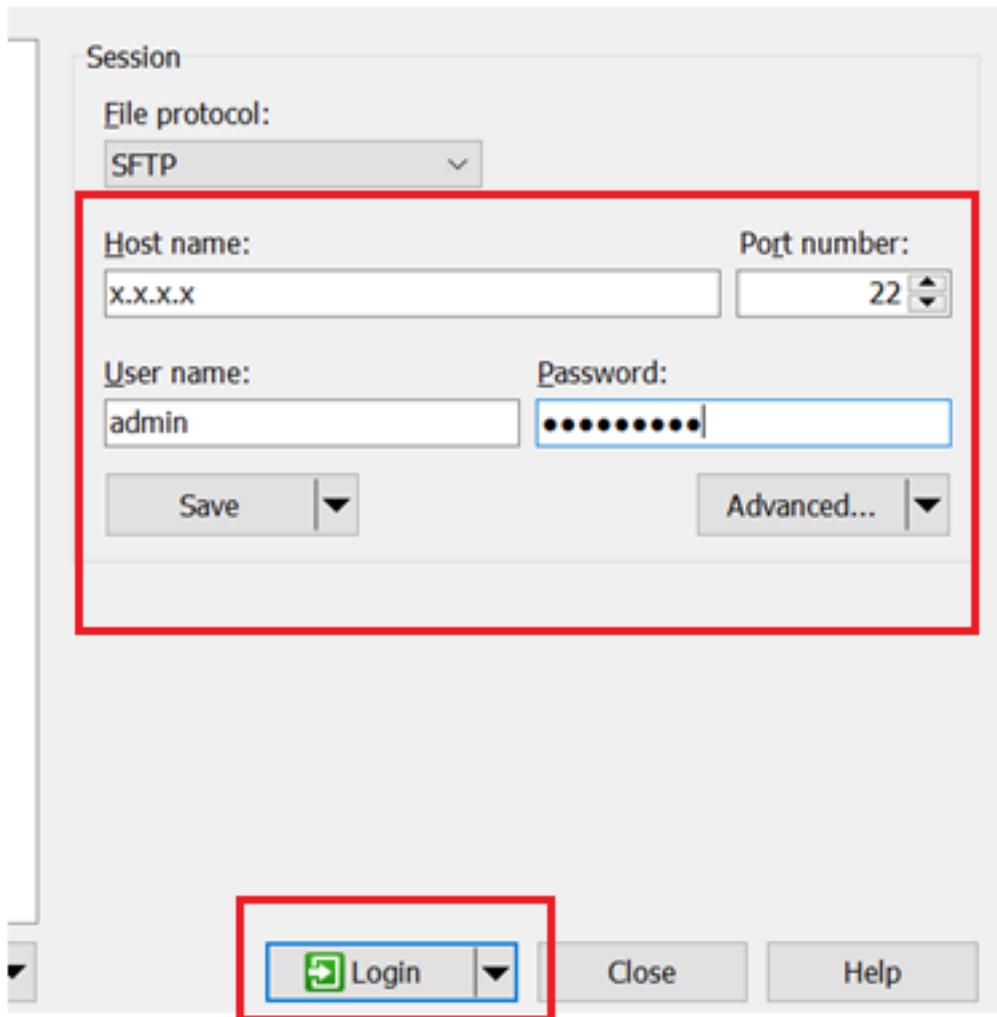
警告：当数据库群集处于活动状态时，无法更新证书。我们需要从群集中删除该节点。如果尝试在群集处于活动状态时更新证书。注意到以下错误

```
ROOT@EXPRSVR>
cms2> database cluster certs dbclusterserver.key dbclusterserver.cer EXPRSVR.cer cmscore2.key CAVD.cer
ERROR: Cannot change certificates when clustering enabled.
  Disable clustering on this node first
cms2>
cms2>
cms2>
cms2>
cms2>
```

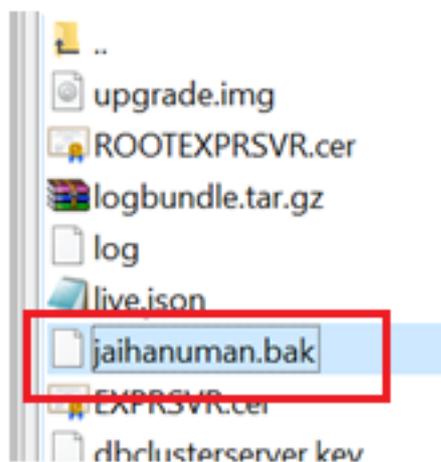
步骤3.通过运行备份快照<filename>在节点上创建备份文件

```
Usage:
  backup snapshot <name>
  backup rollback <name>
  backup list
cms2> backup snapshot jaihanuman
jaihanuman.bak ready for download
cms2>
cms2>
cms2>
```

步骤4.登录FTP客户端，在本地PC上提取文件。



步骤5.将.bak文件从cms拉到本地PC



步骤6.运行命令以从数据库群集中删除节点。"数据库群集删除"

```
cms2>
cms2>
cms2> database cluster remove
WARNING!!!
Are you sure you wish to remove this node from the current cluster? (Y/n)
The current contents of this node's database will become the running local database.
This node will lose all knowledge of the rest of the cluster.
The callbridge and web administration will restart at the end of this procedure.
```

注意：按大写的“Y”。小写“y”不能继续。

```
cms2>
cms2> database cluster remove
WARNING!!!
Are you sure you wish to remove this node from the current cluster? (Y/n)
The current contents of this node's database will become the running local database.
This node will lose all knowledge of the rest of the cluster.
The callbridge and web administration will restart at the end of this procedure.
Please wait...
Remove started...
cms2>
```

步骤7.节点正在从群集分离

```
cms2> database cluster status
Status : Disabling (Started 19 seconds ago)

Nodes:
Node in use : None

Interface : a

Certificates
Server Key : dbclusterserver.key
Server Certificate : dbclusterserver.cer (expired)
Client Key : dbclusterclient.key
Client Certificate : EXPRSVR.cer (expired)
CA Certificate : CA.cer

cms2>
```

步骤8.已从数据库群集中删除节点。

```
cms2> database cluster status
Status           : Disabled
Node in use      : None

Interface        : a

Certificates
  Server Key      : dbclusterserver.key
  Server Certificate : dbclusterserver.cer (expired)
  Client Key      : dbclusterclient.key
  Client Certificate : EXPRSVR.cer (expired)
  CA Certificate   : CA.cer

Last command     : 'database cluster remove' (Success)
```

步骤9.更新数据库群集的新证书文件。数据库群集需要客户端和服务端证书。

database cluster certs

```
cms2> .key dbclusterserver.cer dbclusterclient.key dbclusterclient.cer CAVD.cer
Certificates updated
cms2>
cms2>
```

步骤10.再次向数据库群集添加节点。

```
cms2> database cluster initialize
WARNING!!!
Are you sure you wish to initialize this node as a new database cluster? (Y/n)
The contents of this node's database will become the master version of the data
base in the new cluster.
The callbridge and web administration will restart at the end of this procedure
.
```

步骤11.新证书文件已更新。

```
cms2> database cluster status
Status                : Enabled

Nodes:
  10.106.85.75 (me)   : Connected Master
Node in use           : 10.106.85.75

Interface              : a

Certificates
  Server Key           : dbclusterserver.key
  Server Certificate   : dbclusterserver.cer
  Client Key           : dbclusterclient.key
  Client Certificate   : dbclusterclient.cer
  CA Certificate       : CAVD.cer

Last command           : 'database cluster initialize' (Success)
```

步骤12.将节点添加到数据库集群主节点。

```
cms2> database cluster join 10.106.85.73
WARNING!!!
Are you sure you wish to join this node to an existing database cluster? (Y/n)
The contents of this node's database will be destroyed!
The callbridge and web administration will restart at the end of this procedure.
NOTE: This node is already in a cluster.
Knowledge of all nodes in the old cluster will be removed
```

步骤13.数据库群集在更新的证书中再次良好

```
cms2> database cluster status
Status                : Enabled

Nodes:
  10.106.85.73       : Connected Master
  10.106.85.74       : Connected Slave ( In Sync )
  10.106.85.75 (me)  : Connected Slave ( In Sync )
Node in use           : 10.106.85.73

Interface              : a

Certificates
  Server Key           : dbclusterserver.key
  Server Certificate   : dbclusterserver.cer
  Client Key           : dbclusterclient.key
  Client Certificate   : dbclusterclient.cer
  CA Certificate       : CAVD.cer

Last command           : 'database cluster join 10.106.85.73' (Success)

cms2>
```