启用CMS和CUCM之间的安全通信

目录

简介

本文档介绍如何启用思科Meeting Server (CMS)和思科统一通信管理器(CUCM)之间的通信。

先决条件

要求

Cisco 建议您了解以下主题：

- CMS版本3.8及更高版本
- CUCM和IM&P
- Jabber

使用的组件

本文档中的信息基于以下软件和硬件版本：

- CMS版本3.8
- CUCM和IM&P 14 SU (3)

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。

背景信息

本文档概述了在CMS和CUCM之间建立安全通信的流程，以实现Jabber/Web应用在线状态共享。其中介绍了在CMS上的Web应用会议期间配置和排除Jabber用户更新状态的详细步骤。可对会议服务器进行配置，以更新Jabber用户参与思科会议服务器Web应用会议时的在线状态。

配置

启用CMS和CUCM/IMP服务器之间的安全通信

在操作系统管理页面登录CUCM，导航至Security > Certificate Management(或者点击ASA)，然后下载TOMCAT证书。

CUCM Tomcat证书

登录操作系统管理页面上的Cisco Unified Presence Server (CUPS)，导航至Security > Certificate Management，然后下载CUPS证书。

Presence CUPS证书

下载签署Tomcat和Cup证书的根CA证书。

Tomcat的根证书

*CUPS*的根证书

创建CUCM证书的证书捆绑包。捆绑证书是指将服务器证书放在顶部，中间证书（任意）和根证书放在底部，然后一(1)回车符。

以下是捆绑包证书的示例：

```
 1    -----BEGIN·CERTIFICATE-----
 2    MIIFqzCCBJOgAwIBAgIKNqeYaQAAAAAABDANBgkqhkiG9w0BAQsFADBBMRMwEQYK
 3    CZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUzEXMBUGA1UEAxMOUy1X
 4    SU4yMDA4UjItQ0EwHhcNMjMxMDA0MTMyNzE2WhcNMjUxMDA4MTMzNzE2WjBXMQsw
 5    CQYDVQQGEwJJTjEMMAoGA1UECBMDa2FyMQwwCgYDVQQHEwNpbmQxDjAMBgNVBAoT
 6    BWNpc2NvMRwwGgYDVQQDExNjdWNtMTR0ZXN0LnRlc3QuY29tMIIBIjANBgkqhkiG
 7    9w0BAQEFAAOCAQ8AMIIBCgKCAQEAoYE9zn27hV05JUwAEwutEy5RA4WwzxIvkqEI
 8    ah0fDpRI2GgY+mrH9q70hAvG3uDYBtBHKYJpkYepeULNjZkhO7a39IeeJMG8/q28
 9    SCkZ+j1VIyw8gt+CnG6E6ibCD+HNdtKfwL0ipSdlTnlieX6DzF05Z1K4Alm4yrzN
10    +b0/wSIkfV0+ValyC90nbTCUkIKgvqvqGzdiyndb6TRfhi+w4RD+0NgOBjWHqcXX
11    WXgp9JWYQdy7YeX8Y2kljBAyRhSPfa35hojy470hE91N8axmHRm2m5htqEe0kSOy
12    2oO9pj7f7AqlwzVAfVpQCxxlZsXtZARHpGdzwpm4M8r5MoXPtwIDAQABo4ICjTCC
13    AokwDgYDVR0PAQH/BAQDAgWgMB0GA1UdJQQWMBQGCCsGAQUFBwMBBggrBgEFBQcD
14    AjAoBgNVHREEITAfggh0ZXN0LmNvbYITY3VjbTE0dGVzdC50ZXN0LmNvbTAdBgNV
15    HQ4EFgQUTMTpsuTuO5EBH2wgGFb6qii7M58wHwYDVR0jBBgwFoAUaL6fIQ4Vp+QI
16    UDs/X6MwFAVhJ4IwgcgGA1UdHwSBwDCBvTCBuqCBt6CBtIaBsWxkYXA6Ly9vQ049
17    Uy1XSU4yMDA4UjItQ0EsQ049V010MjAwOFIyLENOPUNEUCxDTj1QdWJsaWM1MjBL
18    ZXk1MjBTZXJ2aWNlcyxDTj1TZXJ2aWNlcyxDTj1Db25maWdlcmF0aW9uLERDPVMz
19    REM9Y29tP2NlcnRpZmljYXRlUmV2b2NhdGlvbkxpc3Q/YmFzZT9vYmplY3RDbGFz
20    czljUkxEaXN0cmlidXRpb25Qb2ludDCBugYIKwYBBQUHAQEEga0wgaowgacGCCsG
21    AQUFBzAChoGabGRhcDovLy9DTj1TLVdJTjIwMDhSMilDQSxDTj1BSUEsQ049UHVi
22    bGljJTIwS2V5JTIwU2VydmljZXMsQ049U2VydmljZXMsQ049Q29uZmlndXJhdGlv
23    bixEQz1TLERDPWNvbT9jQUNlcnRpZmljYXRlP2Jhc2U/b2JqZWN0Q2xhc3M9Y2Vy
24    dGlmaWNhdGlvbkF1dGhvcml0eTA9BgkrBgEEAYI3FQcEMDAuBiYrBgEEAYI3FQiF
25    yrsWhcnoHIXBjS6B5uhFhsuzPgeGpusehtz3XAIBZAIBAjAnBgkrBgEEAYI3FQoE
26    GjAYMAoGCCsGAQUFBwMBMAoGCCsGAQUFBwMCMA0GCSqGSIb3DQEBCwUAA4IBAQCQ
27    hREe6ZJHVx1N7JNgY0REi4V953FiyQPIVYFYVEdaKA1+Afv1S214D7ohFIjL5rSA
28    ThWiFFSWlmEa5Cj1g9giZleHIZuDuoR6XEKWB/bkC9BXoDkKMFV7bh9CoOzFmXk8
29    r6xeN7HScAHAz3wFILUnAiplKP/7odBkNUzgT39NJALlUgVFpT81r61k8OR5TaYI
30    9vs4dw5oCqzI7Z0Av8ZDKNfDTzWoOGtUZdCMIxasJ05ALmMBtagqYBNj16URkR8i
31    f2sOkb+NdPZD4XAEOOtW8rji124ukr7JBgeWYsjsD2tzZzJgzlMprNaVuMDh280Q
32    JQFAiCOp2GgYjkJBZcH2
33    -----END·CERTIFICATE-----
34    -----BEGIN·CERTIFICATE-----
35    MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gz04jjANBgkqhkiG9w0BAQsFADBB
36    MRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUzEXMBUGA1UE
37    AxMOUy1XSU4yMDA4UjItQ0EwHhcNMjMwOTI5MTMxMzIzWhcNMjgwOTI5MTMyMzIy
38    WjBBMRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUzEXMBUG
39    A1UEAxMOUy1XSU4yMDA4UjItQ0EwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK
40    AoIBAQCXa6tjSyOUyn6GkoSbe98SaSKrUNGbCORKnI41tWEiX0vPITEsqZUPRJq4
41    7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAFlmV4hkypxR0Wz64b4yO4Ln8e
42    3E/F6/SXA6HOqHDy1q1QMWSA/PXB441GKbSnfA4pjTSSnMPSWL+iBruYHp9tX6EJ
43    IJq5Fe+RZYNh/mLuB+0Qf1OCn4sqzxZGf8DxhJNHU+2mSq7h319exxioDcwiVwZO
44    xqUKrvBs6jBtOg4Kvs3za4AHyP91SAA2vp42MwtBdisSO3wx+vm/HoVr0fHum/W1
45    Z92iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV
46    HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQOz9fozAUBWEngjAQBgkr
47    BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nza91K4BISCAuBgMMe
48    YSPExL5kExPQcFtJtlFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5
49    k60GpHlbRPBaoxJhK0TaSimL6yAZ0fZo380nrVRDZKlug/1VeXF/2hlTeZc73utt
50    k5zqewqTQO4NHrBp0Udybmpf2L5BJhlctoH490PI0HEbmVDE0WALKX1iqzuEZrmm
51    Mr10MRRLz2ZBpX2WSqw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hgWT3HxnyuMTyZi
52    b6Yf7hb5F3ZSOpHFUlbZ22tqk4qouEigyoaUZaLcVhV5UdBCCvwyU19yU6+EzcnM
53    Ww==
54    -----END·CERTIFICATE-----
55
```

Tomcat证书捆绑包

创建CUPS证书的证书捆绑包。捆绑证书是指将服务器证书放在顶部，中间证书（任意）和根证书放在底部，然后一(1)回车符。

```
1    -----BEGIN·CERTIFICATE-----
2    MIIFqTCCBJGgAwIBAgIKNrMm8gAAAAAABTANBgkqhkiG9w0BAQsFADBBMRMwEQYK
3    CZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUGA1UEAxMOUy1X
4    SU4yMDA4UjItQ0EwHhcNMjMxMDA0MTMzOTU0WhcNMjUxMDA4MTM0OTU0WjBjMQsw
5    CQYDVQQGEwJJTjEOMAwGA1UECBMFa2FybmExDDAKBgNVBAcTA2JnbDEOMAwGA1UE
6    ChMFY21sY28xDDAKBgNVBAsTA2thcjEYMBYGA1UEAxMPaWlwbmV3LnRlc3QuY29t
7    MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAkHb9jsWyhi6i4IkSx8hC
8    Z1U5LZHBQZ8RDQwlvT3CFGZut+dayK9KshYtsOAhRFwLPWgGtABJWMr98f+DM0RG
9    FzmCtNolZsEOqSQCR6b/kbQuC+6LhhgpIM8I44StLaAF4neZ/5dmCU9sJNCpnbpH
10   EbqbXKhW8V4ZBZeLP0T2savk5V+vriGuMjV299vGrEu49kB0EN2M+mnfcnf2OxT5
11   wtFqCY9jijKSKC4Ocu6iJS8A7Hi/yJQJ1NeUmnLpGpF/HKUrclu5pBdfiV1EXBkS
12   LX2bm49PFGRS0guxJZVC457vmAgACgKvwE5s3HvWlt3TplWE4AZtSn3s9tsYSOC7
13   bwIDAQABo4ICFsCCAnswHQYDVR01BBYwFAYIKwYBBQUHAwEGCCsGAQUFBwMCMA4G
14   A1UdDwEB/wQEAwIFoDAaBgNVHREEszARgg9pbXBuZXcudGVzdC5jb20wHQYDVR0O
15   BBYEFOxvmV/jdcIDMEVOjzWR/yRAo9ktMB8GA1UdIwQYMBaAFGi+nyEOFafkCFA7
16   P1+jMBQFYSeCMIHIBgNVHR8EgcAwgb0wgbqggbeggbSGgbFsZGFwOi8vL0NOPVMt
17   V01OMjAwOFIyLUNBBLENOPVdJTjIwMDhSMixDTj1DRFFAsQ049UHVibGljJTIwS2V5
18   JTIwU2VydmljlZXMsQ049U2VydmljlZXMsQ049Q29uZmlndXJhdGlvbixEQz1TLERD
19   PWNvbT9jZXJ0aWZpY2F0ZVJldm9jYXRpb25MaXN0P2Jhc2U/b2JqZWN0Q2xhc3M9
20   Y1JMRGlzdHJpYnV0aW9uUG9pbnQwgboGCCsGAQUFBwEBBItMIGqMIGnBggrBgEF
21   BQcwAoaBmmxkYXA6Ly8vQ049Uy1XSU4yMDA4UjItQ0EsQ049QU1BLENOPVB1Ymxp
22   YyUyMEtleSUyMFNlcnZpY2VzLENOPVNlcnZpY2VzLENOPUNvbmZpZ3VyYXRpb24s
23   REM9UyxEQ1ljb20/Y0FDZXJ0aWZpY2F0ZT9iYXNlP29iamVjdENsYXNzPWNlcnRp
24   ZmljYXRpb25BdXRob3JpdHkwPQYJKwYBBAGCNxUHBDAwLgYmKwYBBAGCNxUIhcq7
25   FoXJ6ByFwY0ugeboRYbLss4HhqbrHobc91wCAWQCAQIwJwYJKwYBBAGCNxUKBBow
26   GDAKBggrBgEFBQcDATAKBggrBgEFBQcDAjANBgkqhkiG9w0BAQsFAAOCAQEAVJDy
27   3mMOFWgLW4hishn/XCPChLMPG54IE+EINTBqsoqxsvl3XLldo0JjNAI7Xd+FoAGQ
28   UXRjRN3q326yiY5C2itTLe/aVpclC5yN6krL/8PEnBnmopubQVdqRUCbn4r21iNV
29   sNcBrUeOY0Vr2/EVeBObVblDGowfrxMj59v40kl5wYc88h0bopLlI/Sc2mpw5m2Z
30   R5nyyxSXfjkMZSwvMnO+Suz7dbJu2sfI6sw0EhF12tRRQHCszq9n9uQDSUXCjQFdq
31   Y3A+LJGewlAuPt4+sqOxjYKYNP8m8+WIBIUEv+oXAoVbz8ffQFoPXYf/2mWrBJRP
32   2v/At0nz3lUdcKFUPw==
33   -----END·CERTIFICATE-----
34   -----BEGIN·CERTIFICATE-----
35   MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gz04jjANBgkqhkiG9w0BAQsFADBB
36   MRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUGA1UE
37   AxMOUy1XSU4yMDA4UjItQ0EwHhcNMjMwOTI5MTMxMzIsWhcNMjgwOTI5MTMyMsIy
38   WjBBMRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUG
39   A1UEAxMOUy1XSU4yMDA4UjItQ0EwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK
40   AoIBAQCXa6tjSyOUyn6GkoSbe98SaSKrUNGbCORKnI4ltWEiX0vPITEsqZUPRJq4
41   7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAFlmV4hkypxR0Wz64b4yO4Ln8e
42   3E/F6/SXA6HOqHDylq1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ
43   IJq5Fe+RZYNh/mLuB+0QflOCn4sqsxZGf8DxhJNHU+2mSq7h319exxioDcwiVwZO
44   xqUKrvBs6jBtOg4Kvs3sa4AHyP91SAA2vp42MwtBdis8O3wx+vm/HoVr0fHum/Wl
45   Z92iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV
46   HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQOs9fozAUBWEngjAQBgkr
47   BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BI3CAuBgMMe
48   YSPExL5kExPQcFtJtlFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5
49   k60GpH1bRPBaoxJhK0TaSimL6yAZ0fZo380nrVRDZKlug/1VeXF/2hlTeZc73utt
50   k5zqewqTQO4NHrBp0Udybmpf2L5BJhlctoH490PI0HEbmVDE0WALFX1iqsuEZrmm
51   Mr10MRRLs2ZBpX2WSqw90IrmpWI3fds2kE2SlDvuaNcc7B8W0hgWT3HxnyuMTyZi
52   b6Yf7hb5F3ZSOpHFUlbZ22tqk4qouEigyoaUZaLcVhV5UdBCCvwyUl9yU6+EscnM
53   Ww==
54   -----END·CERTIFICATE-----
55
```

CUPS Certificate

Root Certificate

carriage return

CUPS证书捆绑包

通过WinSCP将之前创建的捆绑证书推送到CMS服务器。

Name	Size	Type		Name	Size	Changed	Rights	Owner
..		Parent director		c2wip.key	198 KB	5/16/2020 3:44:38 PM	r--r--r--	admin
cupbun.cer	4 KB	Security Certifi		CA.cer	198 KB	8/17/2021 9:36:00 PM	r--r--r--	admin
cucmbun.cer	4 KB	Security Certifi		CA222.cer	198 KB	8/17/2021 10:53:32 PM	r--r--r--	admin
				CA2222.cer	198 KB	8/24/2023 9:35:26 AM	r--r--r--	admin
				CB1.csr	198 KB	8/24/2023 2:58:43 PM	r--r--r--	admin
				CB1.key	198 KB	8/24/2023 2:58:43 PM	r--r--r--	admin
				CB222.cer	198 KB	8/17/2021 11:07:26 PM	r--r--r--	admin
				CB222.csr	198 KB	8/18/2021 4:21:01 AM	r--r--r--	admin
				CB222.key	198 KB	8/18/2021 4:21:01 AM	r--r--r--	admin
				CB2222.cer	198 KB	8/24/2023 9:35:26 AM	r--r--r--	admin
				cmm.csr	198 KB	4/20/2022 11:12:14 PM	r--r--r--	admin
				cmm.key	198 KB	4/20/2022 11:12:14 PM	r--r--r--	admin
				cms.cer	198 KB	9/21/2021 12:18:15 PM	r--r--r--	admin
				cms.lic	198 KB	10/26/2023 5:54:51 PM	r--r--r--	admin
				cucmbun.cer	198 KB	10/4/2023 7:18:03 PM	r--r--r--	admin
				cup.cer	198 KB	10/4/2023 3:51:03 PM	r--r--r--	admin
				cupbun.cer	198 KB	10/4/2023 7:22:10 PM	r--r--r--	admin
				Feb_09_2023_14_14.bak	518 KB	2/9/2023 2:13:12 PM	r--r--r--	admin
				Feb_10_2023_13_27.bak	518 KB	2/10/2023 1:25:05 PM	r--r--r--	admin

将证书捆绑包复制到*CMS*

使用callbridge ucm certs <cert-bundle>在Callbridge上分配TOMCAT捆绑证书。


```
wb3>
wb3>
wb3> callbridge ucm certs cucmbun.cer
wb3>
```

Callbrigde证书信任

使用callbridge imps certs <cert-bundle>在Callbridge上分配CUP服务器捆绑证书。


```
wb3>
wb3> callbridge imps certs cupbun.cer
wb3>
```

运行callbridge命令以检查是否已分配证书捆绑包。

*Callbridge*信任证书检查

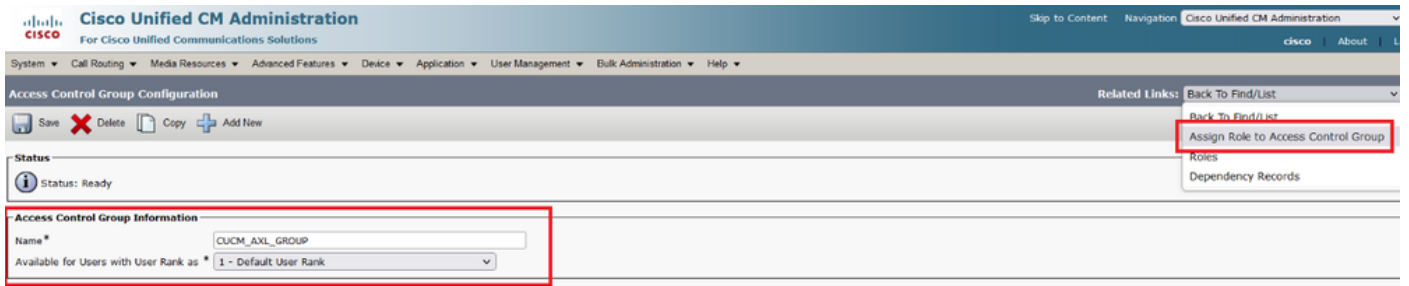以CM管理员身份登录CUCM，导航至User Management > User Settings > Access Control Group，点击Add New并创建访问控制组CUCM_AXL_Group。
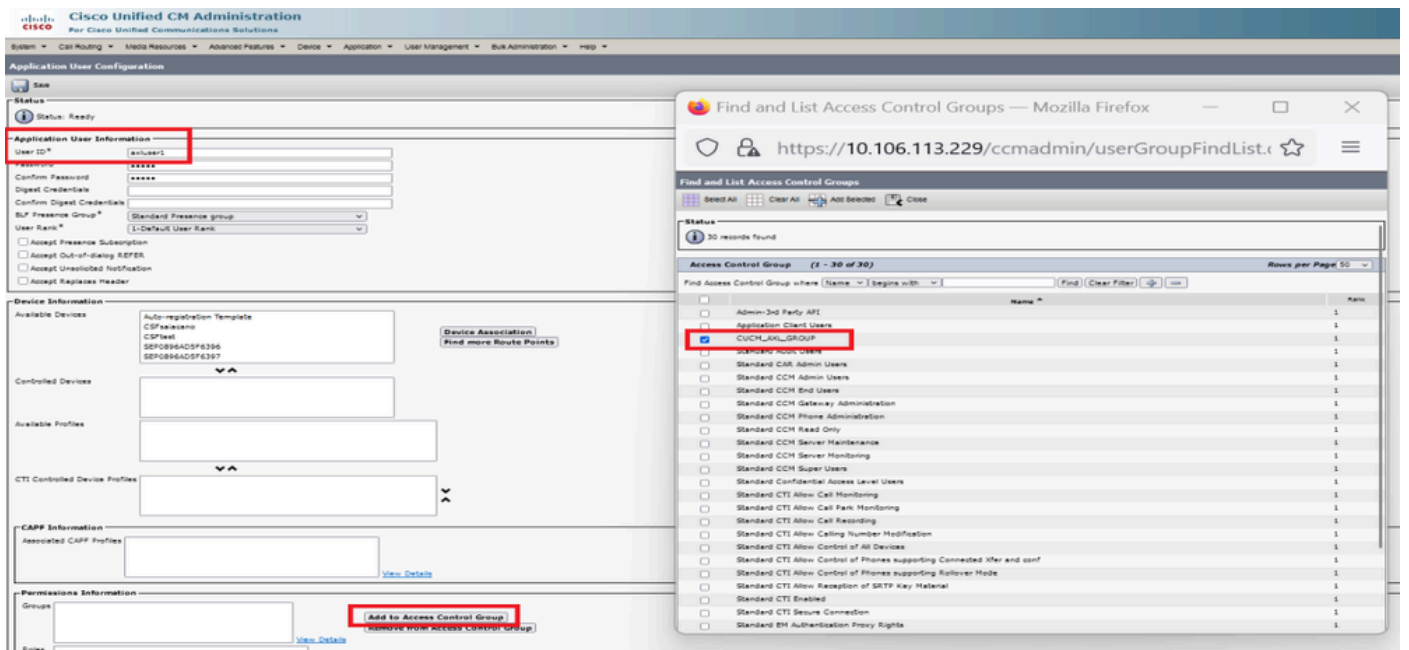

创建*AXL*组

将角色Standard AXL API Access分配到之前创建的访问控制组。
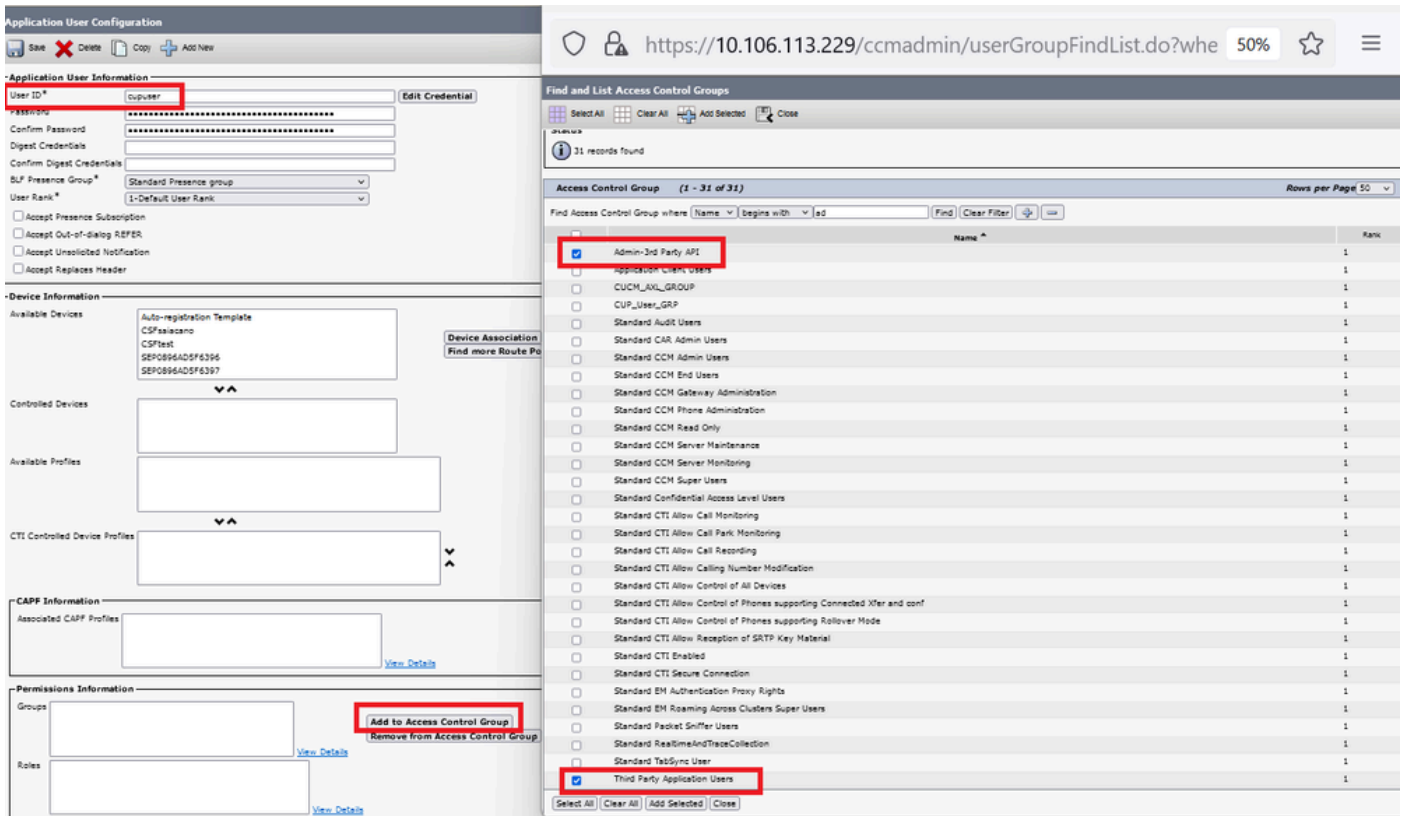
为*AXL组分配API*访问权限
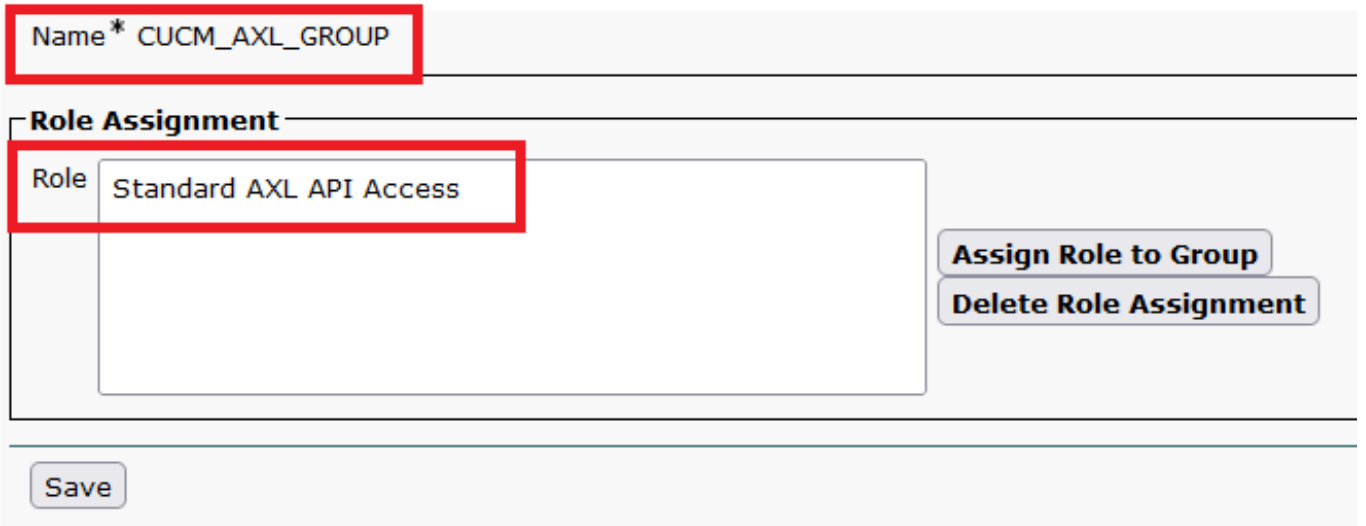
导航到User Management > Application User，点击Add New，然后创建应用程序用户AXLuser。然后，分配之前创建的访问控制组。

创建用户并分配*AXL*组

创建一个CUP用户并分配以下两个角色：Third Party Application Users和Admin-3rd Party API。

创建*CUP*用户

使用以下方法在CMS上启用CUCM和思科统一通信管理器IM和在线状态服务(IMPS)证书的证书验证：

callbridge ucm verify <enable/disable>

callbridge imps verify <enable/disable>

*Callbridge*验证*CUCM*和*CUPS*证书

通过运行callbridge命令进行验证。

Callbrdge命令检查

现在使用callbridge ucm add <hostname/IP> <axl_user> <presence_user>在CMS上添加CUCM完全限定域名(FQDN)和之前创建的用户 **AXL和CUPS。**

axl_user = CUCM上的AXL用户

presence_user =之前创建的CUP用户

将CUCM添加到Callbridge

现在，借助以下工具，验证CMS是否信任CUCM服务：

callbridge ucm <hostname/IP> axl_service status

callbridge ucm cucm14test.test.com axl_service status

Callbridge AXL状态

callbridge imps <hostname/IP> <presence_user> presence_service status

wb3> callbridge imps impnew.test.com cisco presence_service status

```
wb3>
wb3>
wb3> callbridge imps impnew.test.com cupuser presence_service status
Enter presence user password:
Presence service available.
wb3>
```

Callbridge在线状态

可用的服务意味着CUCM和CMS在AXL和在线状态服务方面相互信任。

Callbridge AXL状态
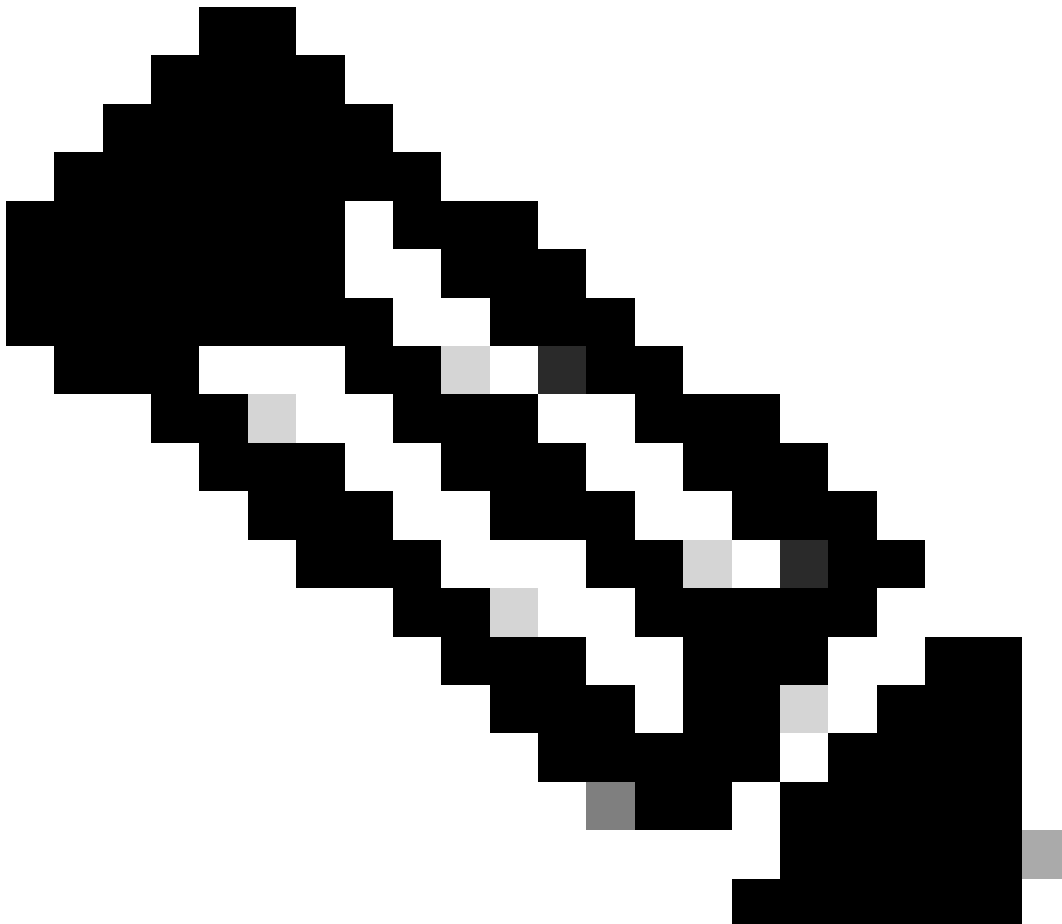
注意：
CUCM在CUPS上同步并更新了轻量级目录访问协议(LDAP)用户。 用户必须具有相同的Web应用用户ID和Jabber JID，并且必须使用相同的用户ID登录Web应用，才能在Jabber上更新在线状态。

Webapp和Jabber客户端之间在线状态共享的CUCM特定配置

CUCM必须已配置LDAP。

LDAP 系统:

CUCM LDAP配置1

LDAP 目录:

LDAP Directory   Related Links: Back to

Save | Delete | Copy | Perform Full Sync Now | Add New

LDAP Directory Information

LDAP Configuration Name*	ADDOT240
LDAP Manager Distinguished Name*	administrator@test.com
LDAP Password*	••••••••••••••••••••••••••••
Confirm Password*	••••••••••••••••••••••••••••
LDAP User Search Base*	OU=Acano,DC=test,DC=com
LDAP Custom Filter for Users	< None >
Synchronize*	◉ Users Only ○ Users and Groups
LDAP Custom Filter for Groups	< None >

LDAP Directory Synchronization Schedule

Perform Sync Just Once	☐
Perform a Re-sync Every*	7 DAY
Next Re-sync Time (YYYY-MM-DD hh:mm)*	2023-10-31 00:00

Standard User Fields To Be Synchronized

Cisco Unified Communications Manager User Fields	LDAP Attribute	Cisco Unified Communications Manager User Fields	LDAP Attribute
User ID	sAMAccountName	First Name	givenName
Middle Name	middleName	Last Name	sn
Manager ID	manager	Department	department
Phone Number	telephoneNumber	Mail ID	mail
Title	title	Home Number	homephone
Mobile Number	mobile	Pager Number	pager
Directory URI	mail	Display Name	displayName

CUCM LDAP配置2

LDAP 验证:

CUCM LDAP配置1 CUCM LDAP配置1 CUCM LDAP配置1

LDAP Authentication

Save

Status

ⓘ Status: Ready

LDAP Authentication for End Users

☑ Use LDAP Authentication for End Users

LDAP Manager Distinguished Name*	administrator@test.com
LDAP Password*	••••••••••••••••••••••••••••••••••••
Confirm Password*	••••••••••••••••••••••••••••••••••••
LDAP User Search Base*	OU=Acano,DC=test,DC=com

LDAP Server Information

Host Name or IP Address for Server*	LDAP Port*	Use TLS
	389	☐

Add Another Redundant LDAP Server

CUCM LDAP配置3

从LDAP提取到配置了邮件ID的CUCM的用户：

CUCM中的用户

在CUPS服务器上更新的CUCM用户：

CUPS用户

CMS上也配置了同一LDAP目录。在CMS上提取并同步用户数据库。

CMS用户

现在，由于您已验证CMS可以信任CUCM，因此您可以继续测试在线状态。

将CUPS和CUCM添加到CMS

验证

使用同一用户（从同一LDAP同步）在两个客户端上签名：
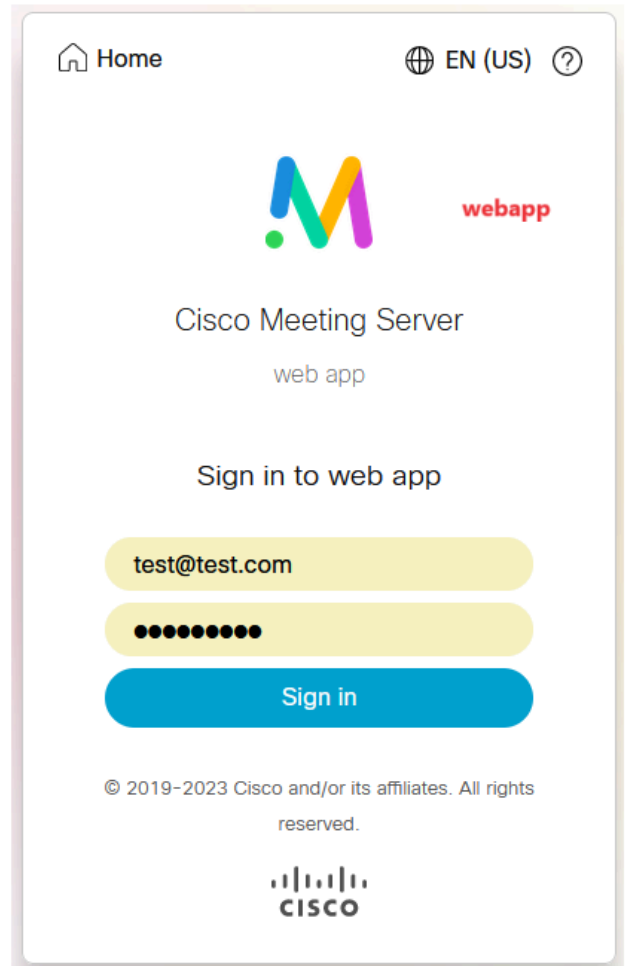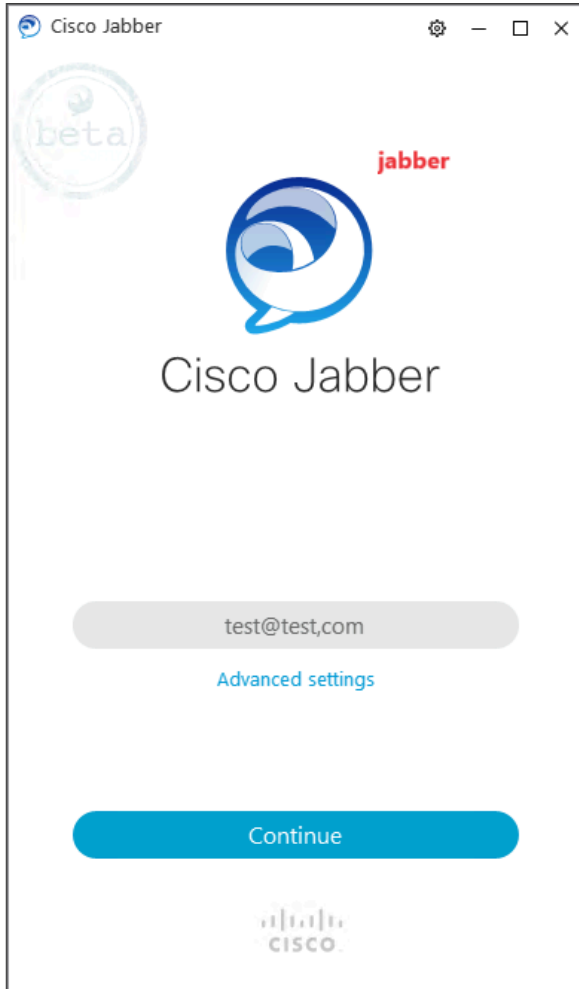
用户在*Jabber*和*WebApp*中登录

两个客户端都登录到同一用户<u>test@test.com</u>。
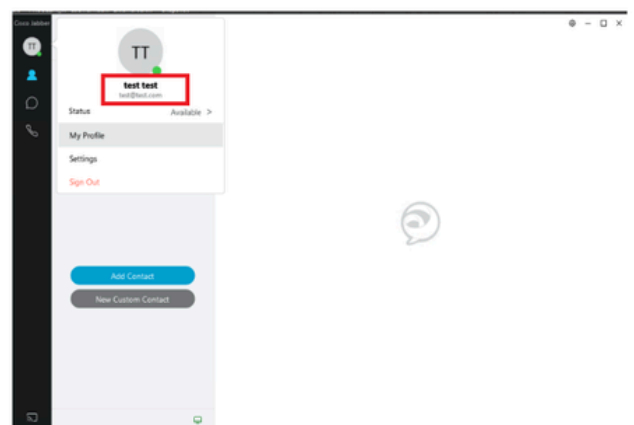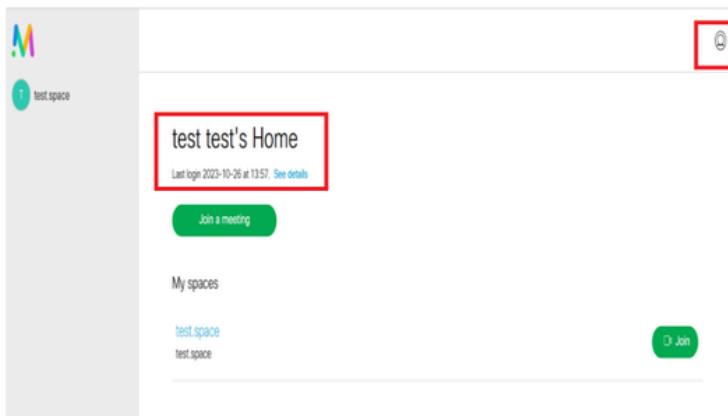
呼叫前在*Jabber*和*Webapp*中的在线状态
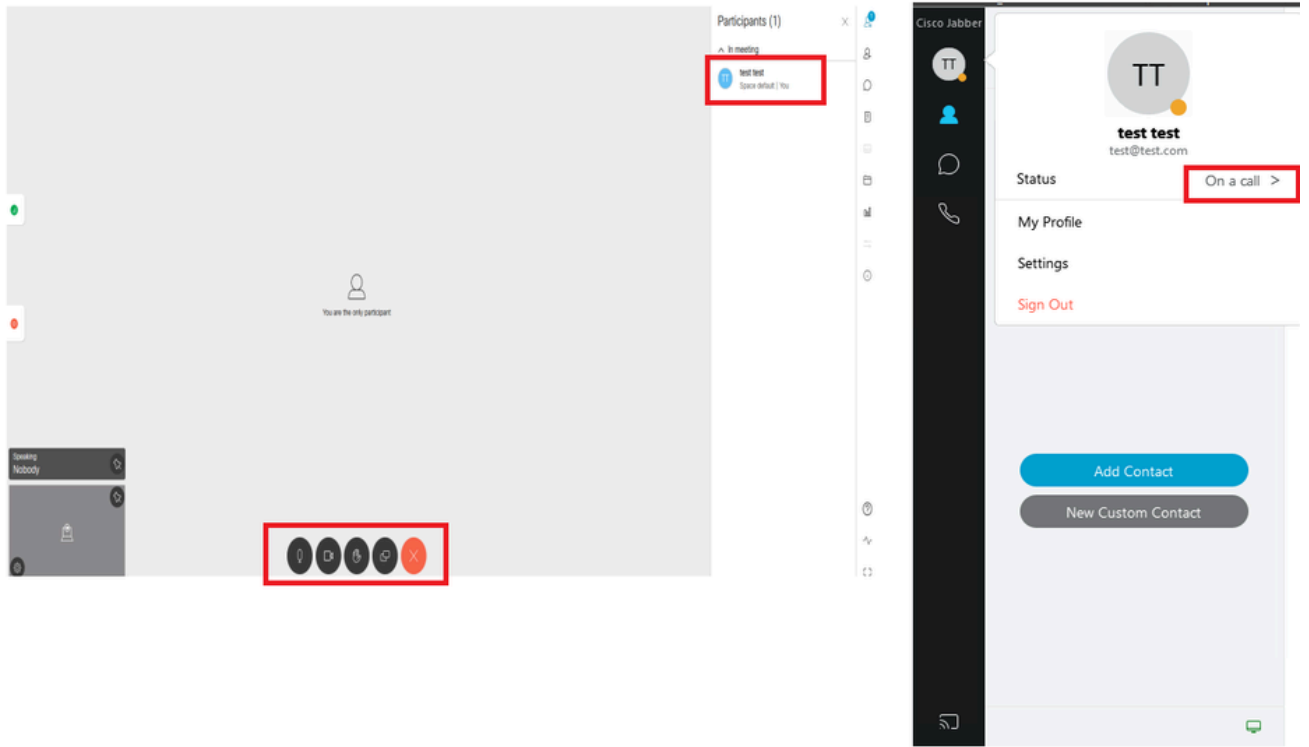
从WebApp加入呼叫时在线状态更改

当Jabber用户登录Web应用并加入会议时，会议服务器会将Jabber状态更新为"在会议中，在呼叫中"，并在用户结束会议后恢复至其先前状态。例如，如果Jabber上的用户状态显示"可用"，则在Web应用会议中将其更新为"在会议中，在呼叫中"。用户离开会议后，Jabber状态再次设置为"可用"。如果Jabber用户在加入Web应用会议时正在另一个会议/呼叫中，则会议服务器不会更新Jabber状态。如果Jabber用户在加入Web应用会议之前将其状态设置为"免打扰"，则会议服务器不会更新Jabber状态。如果用户在Web应用会议期间随时手动更新Jabber状态，会议服务器不会覆盖手动更新的用户状态。