Habilitar la comunicación segura entre CMS y CUCM

Contenido Introducción Prerequisites Requirements Componentes Utilizados Antecedentes Configurar Habilitación de la comunicación segura entre CMS y el servidor CUCM/IMP Configuración específica de CUCM para el uso compartido de presencia entre Webapp y el cliente Jabber Verificación

Introducción

Este documento describe cómo habilitar la comunicación entre Cisco Meeting Server (CMS) y Cisco Unified Communications Manager (CUCM).

Prerequisites

Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- CMS versión 3.8 y posteriores
- CUCM e IM&P
- Jabber

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- CMS versión 3.8
- CUCM e IM&P 14 SU (3)

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Antecedentes

Este documento describe el proceso de establecimiento de una comunicación segura entre CMS y CUCM para el uso compartido de presencia de aplicaciones Jabber/Web. Explica los pasos detallados para configurar y solucionar problemas del estado de actualización de los usuarios de Jabber durante las reuniones de aplicaciones web en el CMS. Meeting Server se puede configurar para actualizar el estado de presencia de los usuarios de Jabber mientras están participando en una reunión de aplicación web de Cisco Meeting Server.

Configurar

Habilitación de la comunicación segura entre CMS y el servidor CUCM/IMP

Inicie sesión en CUCM en la página de administración del sistema operativo, desplácese hasta Security > Certificate Management y descargue el certificado de TOMCAT.

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CAPF-trust	High_Assurance_SUDI_CA_0a6475524cd8617c62	Trust	CA- signed	RSA	High_Assurance_SUD1_CA	Cisco_Root_CA_2099	08/10/2099	This certificate was used to sign the MIC installed on Cisco en Presence of this certificate allows the end point to communica securely with UCM using the MIC when associated with a secu
CAPF-trust	Cisco_Basic_Assurance_Root_CA_2099_01a65af15ee994ebe1	Trust	Self- signed	RSA	Cisco_Basic_Assurance_Root_CA_2099	Cisco_Basic_Assurance_Root_CA_2099	05/27/2099	This certificate was used to sign the MIC installed on Cisco en Presence of this certificate allows the end point to communica securely with UCM using the MIC when associated with a secu
CAPF-trust	CAPE-4c15e524	Trust	Self- signed	RSA	CAPF-4c15e524	CAPF-4c15e524	05/07/2028	
CAPF-trust	Cisco Root CA_M2_01	Trust	Self- signed	RSA	Cisco_Root_CA_M2	Cisco_Root_CA_M2	11/12/2037	This certificate was used to sign the MIC installed on Cisco en Presence of this certificate allows the end point to communica securely with UCM using the MIC when associated with a secu
CAPF-trust	Cisco Root CA 2099 0198335878ce16c1c1	Trust	Self- signed	RSA	Cisco_Root_CA_2099	Cisco_Root_CA_2099	08/10/2099	This certificate was used to sign the MIC installed on Cisco en Presence of this certificate allows the end point to communical securely with UCM using the MIC when associated with a secu
CAPF-trust	Cisco Manufacturing CA_SHA2_02	Trust	CA- signed	RSA	Cisco_Manufacturing_CA_SHA2	Cisco_Root_CA_M2	11/12/2037	This certificate was used to sign the MIC installed on Cisco en Presence of this certificate allows the end point to communical securely with UCM using the MIC when associated with a secure
ipsec	cucm14test.test.com_6dffacb16e53663f3d9af4a66f355758	Identity	Self- signed	RSA	cucm14test.test.com	cucm14test.test.com	09/30/2028	Self-signed certificate generated by system
ITLRecovery	ITLRECOVERY_cucm14test_77cea7891d68be201eff4e1e038db166	Identity	Self-	RSA	cucm14test.test.com	ITLRECOVERY_cucm14test	05/01/2028	Self-signed certificate generated by system
tomcat	cucm14test.test.com_36a79869000000000004	Identity	CA-	RSA	cucm14test.test.com	S-WIN2008R2-CA	10/04/2025	Certificate Signed by S-WIN2008R2-CA
tomcat-ECDS/	A cucm14test-EC.test.com_486beedc456be0fb40ff7716b999d3a4	Identity	Self-	EC	cucm14test.test.com	cucm14test-EC.test.com	09/30/2028	Self-signed certificate generated by system



Inicie sesión en Cisco Unified Presence Server (CUPS) en la página de administración del sistema operativo, desplácese hasta Security > Certificate Management y descargue el certificado de CUPS.

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Certificate	Common Name	Usage 1	Туре Кеу Туре	Distribution	Issued By	Expiration	Description			
cup	impnew.test.com	Identity CA-s	signed RSA	impnew.test.com	S-WIN2008R2-CA	10/04/2025	Certificate Signed by S-WIN2008R2-CA			
cup-ECDSA	impnew-EC.test.com	Identity Self-	-signed EC	impnew.test.com	impnew-EC.test.com	09/30/2028	Self-signed certificate generated by system			
cup-trust	Impnew-EC	Trust Self-	-signed EC	Impnew	Impnew-EC	09/30/2028	Trusted local cluster own-certificate			
cup-trust	impnew-EC.test.com	Trust Self-	-signed EC	impnew.test.com	impnew-EC.test.com	09/30/2028	Trusted local cluster own-certificate			

Certificado CUPS de presencia

Descargue el certificado de CA RAÍZ que firmó el certificado Tomcat y Cup.

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Certificate *	Common Name/Common Name_SerialNumber	Usage	Туре	Key Type	Distribution	Issued By	Expiration	Description		
tomcat-trust	cucm14test-EC.test.com_486beedc456be0fb40ff7716b999d3a4	Trust	Self-signed	EC	cucm14test.test.com	cucm14test-EC.test.com	09/30/2028	Trust Certificate		
tomcat-trust	S-WIN2008R2-CA_0d758d12017cb7bf49a9a7381b3d388e	Trust	Self-signed	RSA	S-WIN2008R2-CA	S-WIN2008R2-CA	09/29/2028	Signed Certificate		
tomcat-trust	monew.test.com_468578296585868758671959846904855	Inust	servagnea	K5A	impriew.test.com	impnew.test.com	09/30/2028	Trust Certificate		
tomcat-trust	cucm14test.test.com_36a7986900000000004	Trust	CA-signed	RSA	cucm14test.test.com	S-WIN2008R2-CA	10/04/2025	Trust Certificate		
tomcat-trust	imonew-EC.test.com_779ac9d72e3/6e922687583a1071417e	Trust	Self-signed	EC	impnew.test.com	impnew-EC.test.com	09/30/2028	Trust Certificate		
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Certificado raíz de Tomcat

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Certificate	Common Name	Usage	Туре	Key Type		Distribution		Issued By	Expiration	Description
cup-trust	impnew-EC	Trust	Self-signed	EC	impn	ew		Impnew-EC	09/30/2028	Trusted local cluster own-certificate
cup-trust	impnew-EC.test.com	Trust	Self-signed	EC	impn	ew.test.com		impnew-EC.test.com	09/30/2028	Trusted local cluster own-certificate
cup-trust	S-WIN2008R2-CA	Trust	Self-signed	RSA	S-WI	N2008R2-CA		S-WIN2008R2-CA	09/29/2028	Signed Certificate
cup-trust	impnew	Trust	Self-signed	RSA	impn	ew		impnew	09/30/2028	Trusted local cluster own-certificate
Generate Self-s	igned Upload Certificate/	Certificate chain	Generate CSR	Reuse Certific	ate					

Certificado raíz para CUPS

Cree un paquete de certificados de cuCM. Un certificado de agrupamiento significa colocar el certificado de servidor en la parte superior, el certificado intermedio (any) en el medio y el certificado RAÍZ en la parte inferior, seguido de un (1) retorno de carro.

A continuación se muestra un ejemplo del certificado BUNDLE:

1	BEGIN CERTIFICATE	
2	MIIFqsCCBJOgAwIBAgIKNqeYaQAAAAABDANBgkqhkiG9w0BAQsFADBBMRMwEQYK	
3	CZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUxEXMBUGA1UEAxMOUy1X	
4	SU4yMDA4UjItQ0EwHhcNMjMxMDA0MTMyNsE2WhcNMjUxMDA0MTMsNsE2WjEXMQsw	
5	CQYDVQQGEwJJTjEMMAoGA1UECBMDa2FyMQwwCgYDVQQHEwNpbmQxDjAMBgNVBAoT	
6	BWNpc2NvMRwwGgYDVQQDExNjdWNtMTR0ZXN0LnR1c3QuY29tMIIBIjANBgkqhkiG	
7	9w0BAQEFAAOCAQ8AMIIBCgKCAQEAoYE9sn27hV05JUwAEwutEy5RA4WwsxIvkqEI	
8	ah0fDpRI2GgY+mrH9q70hAvG3uDYBtBHKYJpkYepeULNjZkhO7a39IeeJMG8/q28	
9	SCkZ+j1VIyw8gt+CnG6E6ibCD+HNdtKfwL0ipSd1Tn1ieX6DsF05Z1K4Alm4yrsN	
10	+b0/wSIkfV0+ValyC90nbTCUkIKgvqvqGzdiyndb6TRfhi+w4RD+0NgOBjWHqcXX	
11	WXgp9JWYQdy7YeX8Y2kljBAyRhSPfa35hojy470hE91N8axmHRm2m5htqEe0kSOy	
12	2009pj7f7Aq1wzVAfVpQCxx1ZsXtZARHpGdzwpm4M8r5MoXPtwIDAQABo4ICjTCC	
13	AokwDgYDVR0PAQH/BAQDAgWgMB0GA1UdJQQWMBQGCCsGAQUFBwMBBggrBgEFBQcD	
14	AjAoBgNVHREEITAfggh0ZXN0LmNvbYITY3VjbTE0dGVzdC50ZXN0LmNvbTAdBgNV	
15	HQ4EFgQUTMTpsuTu05EBHZwgGFb6qii7MS8wHwYDVR0jBBgwFoAUaL6fIQ4Vp+QI	Server Certificate on TOP
16	UDs/X6MwFAVhJ4IwgcgGA1UdHwSBwDCBvTCBuqCBt6CBtIaBsWxkYXA6Ly8vQ049	
17	Uy1XSU4yMDA4UjItQ0EsQ049V010MjAwOFIyLENOPUNEUCxDTj1QdWJsaWM1MjBL	
18	ZXklMjBTZXJ2aWNlcymDTj1TZXJ2aWNlcymDTj1Db25maWdlcmF0aW9uLERDPVMs	CUCM TOMCAT CEPT
19	REM9Y29tP2N1cnRpZmljYXR1UmV2b2NhdG1vbkxpc3Q/YmFsZT9vYmp1Y3RDbGFs	COCM TOMCAT CERT
20	cs1jUkxEaXN0cmlidXRpb25Qb21udDCBugYIKwYBBQUHAQEEga0wgaowgacGCCsG	
21	AQUFBzAChoGabGRhcDovLy9DTj1TLVdJTjIwMDhSMi1DQSxDTj1BSUEsQ049UHVi	
22	bG1jJTIwS2V5JTIwU2Vydm1jZXMsQ049U2Vydm1jZXMsQ049Q29uZm1ndXJhdG1v	
23	bixEQmlTLERDFWNvbT9jQUNlcnRpZmljYXRlP2Jhc2U/b2JqZWN0Q2xhc3M9Y2Vy	
24	dG1maWNhdG1vbkF1dGhvcm10eTA9BgkrBgEEAYI3FQcEMDAuBiYrBgEEAYI3FQiF	
25	yrsWhcnoHIXBjS6B5uhFhsusPgeGpusehts3XAIBZAIBAjAnBgkrBgEEAYI3FQoE	
26	GjAYMAoGCCsGAQUFBwMBMAoGCCsGAQUFBwMCMA0GCSqGSIb3DQEBCwUAA4IBAQCQ	
27	hREe6ZJHVx1N7JNgY0REi4V953FiyQPIVYFYVEdaKA1+Afv1S214D7ohFIjL5rSA	
28	ThWiFFSWlmEa5Cjlg9gi2leHIZuDuoR6XEKWB/bkC9BXoDkKMFV7bh9CoOzFmXk8	
29	r6xeN7HScAHAs3wFILUnAip1KP/7odBkNUsgT39NJAL1UgVPpT81r61k8OR5TaYI	
30	9vs4dw5oCqzI7Z0Av8ZDKNfDTzWoOGtUZdCMIxasJ05ALmMBtagqYBNj16URkR8i	
31	f2sOkb+NdPZD4XAEOOtW8rjil24ukr7JBgeWYsjsD2tsZsJgslMprNaVuMDh280Q	
32	JQFAiCOp2GgYjkJBZcH2	
33	END · CERTIFICATE	
34	BEGIN · CERTIFICATE	
35	MIIDXTCCAkWgAwIBAgIQDXWNEgF8t79Jqac4Gz04jjANBgkqhkiG9w0BAQsFADBB	
36	MRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUxEXMBUGA1UE	
37	AxMOUy1XSU4yMDA4UjItQ0EwHhcNMjMwOTI5MTMxMsIsWhcNMjgwOTI5MTMyMsIy	
38	WjBBMRMwEQYKCZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUsEXMBUG	
39	A1UEAxMOUy1XSU4yMDA4UjItQ0EwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK	
40	AoIBAQCXa6tjSyOUyn6GkoSbe98SaSKrUNGbCORKnI41tWEiX0vPITEsqZUPRJq4	
41	7C8useeDiJPUbWAY9e8F4nm+VhGSEKqkwekr1JAF1mV4hkypxR0Wz64b4yO4Ln8e	Post contificate at bottom
42	3E/F6/SXA6HOqHDy1q1QMWSA/PXB441GKbSnfA4pjTBSnMP5WL+iBruYHp9tX6EJ	Root certificate at bottom
43	IJq5Fe+RZYNh/mLuB+0Qf10Cn4sqsxZGf8DxhJNHU+2mSq7h319exxioDcwiVwZ0	
44	xqUKrvBs6jBtOg4Kvs3za4AHyP91SAA2vp42MwtBdis8O3wx+vm/HoVr0fHum/W1	
45	292iwR9JxA4tKoJHVpBwMVnrK7TrAgMBAAGjUTBPMAsGA1UdDwQEAwIBhjAPBgNV	
46	HRMBAf8EBTADAQH/MB0GA1UdDgQWBBRovp8hDhWn5AhQOz9fozAUBWEngjAQBgkr	
47	BgEEAYI3FQEEAwIBADANBgkqhkiG9w0BAQsFAAOCAQEAV5nsa91K4BISCAuBgMMe	
48	YSPExL5kExPQcFtJtlFjnC5uTC4I0MQQFfuralBQfr4DokDXK5892npt5DAFors5	
49	k60GpH1bRPBaoxJhK0TaSimL6yAZ0fZo380nrVRDZKlug/1VeXF/2h1TeZc73utt	
50	k5sqewqTQO4NHrBp0Udybmpf2L5BJhlctoH490PI0HEbmVDE0WALKX1iqsuEZrmm	
51	Mr10MRRLs22BpX2WSqw90IrmpWI3fds2kE2S1DvuaNcc7B8W0hgWT3HxnyuMTyZi	
52	b6Yf7hb5F3ZSOpHFU1bZ22tqk4qouEigyoaUZaLcVhV5UdBCCvwyU19yU6+EscnM	
53	Nv==	
54	END CERTIFICATE	
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Paquete de certificados Tomcat

Cree un paquete de certificados de certificados CUPS. Un certificado de paquete significa colocar el certificado de servidor en la parte superior, el certificado intermedio (any) en el medio y el certificado RAÍZ en la parte inferior, seguido de un (1) retorno de carro.

1	BEGIN CERTIFICATE	
2	MIIFqTCCBJGgAwIBAgIKNrMm8gAAAAABTANBgkqhkiG9w0BAQsFADBBMRMwEQYK	
3	CZImiZPyLGQBGRYDY29tMREwDwYKCZImiZPyLGQBGRYBUzEXMBUGA1UEAxMOUy1X	
4	SU4yMDA4UjItQ0EwHhcNMjMxMDA0MTMsOTU0WhcNMjUxMDA0MTM0OTU0WjBjMQsw	
5	CQYDVQQGEwJJTjEOMAwGA1UECBMFa2FybmExDDAKBgNVBAcTA2JnbDEOMAwGA1UE	
6	ChMFY21sY28xDDAKBgNVBAsTA2thcjEYMBYGA1UEAxMPaW1wbmV3LnR1c3QuY29t	
7	MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAkHb9jsWyhi6i4IkSx8hC	
8	21U5L2HBQ28RDQw1vT3CFGZut+dayK9KshYtsOAhRFwLFWgGtABJWMr98f+DM0RG	
9	FsmCtNolZsE0qSQCR6b/kbQuC+6LhhgpIM8I44StLaAF4neZ/5dmCU9sJNCpnbpH	
LO	EbqbXKhW8V42BZeLP0T2savk5V+vriGuMjV299vGrEu49kB0EN2M+mnfcnf2OxT5	
11	wtFqCY9jijKSKC4Ocu6iJS8A7Hi/yJQJ1NeUmnLpGpF/HKUrclu5pBdfiVlEXBkS	
12	LX2bm49PFGRS0quxJZVC457vmAqACqKvwE5s3HvW1t3Tp1WE4AZtSn3s9tsYS0C7	
13	bwIDAQABo4ICfsCCAnswHOYDVR01BBYwFAYIKwYBBQUHAwEGCCsGAQUFBwMCMA4G	CUDE Castificate
4	A1UdDwEB/wQEAwIFoDAaBgNVHREEEsARgg9pbXBuZXcudGVsdC5jb20wHQYDVR00	COPS Certificate
1.5	BEYEFOxvmV/jdcIDMEVOjsWR/vRAo9ktMB8GA1UdIwQYMBaAFGi+nvEOFafkCFA7	
16	P1+iMBOFYSeCMIHIBaNVHR8EgcAwab0wabagabegabSGabFsZGFw0i8vL0NOPVMt	
7	V010MiAwOFIvLUNBLENOFVdJTiJwMDhSMixDTilDRFA=0049UHVibGliJTIwS2V5	
18	JTIwU2VvdmljZXMs0049U2VvdmljZXMs0049029uZmlndXJhdGlvbixE0s1TLERD	
9	PWNvbT9jZXJ0aWZpY2F0ZVJ1dm9jYXRpb25MaXN0P2Jhc2U/b2JgZWN0O2xhc3M9	
20	Y1JMRG1sdHJpYnV0=W9uUG9phnOwgboGCCsGAOUFBwEBBIGtMIGgMIGnBggrBgEF	
21	BOcwhoa Bmmwk YXX6Lv8vO049Uv1XSU4vMDX4UijT±00E v0049OU1BLENOPVB1Ymvp	
22	YulluMEt 1=SlluMEN1 cn2pY2VaLENOPUN1 cn2pY2VaLENOPUN1 cn2pY2VaLENOPUN2p222VyYXPpb24=	
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24	7ml + YYDnh25EdYDnh2.IndHkyDOV.KyVEB3CCNvIIHED3vI.cVmEyVEB3CCNvIIIhcc7	
25	FoX.J6BvFwY0ugeboBVbJ ===4HbgbrHobc91wC3W0C30TwJwVJKwVBB3CC3vJKBBog	
26	CDAKBoorBoFFRO-DATAKBoorBoFFRO-DAtaNBokohtiCSv(BAO-FAAOCAOFAUJD)	
27	2=MOFWaIW4bisbs/VCDCbIMDG54TF+FINTBasoavaw12XI1do0.JiN3T7Xd+Fo3G0	
28	IVDiDN2c226wiV5C2i+TIa/sUnc1C5wM6byI/8DFnBmmnubOUdcDIICha4c21iNU	
26	NABATAOVOUr2/FUABONUDIDGovfryMi50r40k15vVa88h0honJ17/8c2mv5m27	
20	DSprover SV51 hV7 Survero 4 Sur 7 db Tu 2 = 51 Server by 12 + DDOHC = a Group SUIC / DE SUICE A	
21	V22+1.1Cav13vD+4+acOviVEVND8m8+WIRTIF=+aV3aUba8ff0FaDVVf/7mWrB.TDD	
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10	A TRACCY - CALOUND CC - CALOR - CORE TALAND CORE TALAND CONTRACTOR - 2000 TA	
10	ACIDAQCARCEJSYCOYNCGROSDE90525AFUNGDCORANI4ICWEIAUVFIIESq20FR0q4	
1.2	<pre>/Couseepiorobwaiseoranm+vnGSLkqkwekrioarimvankypakowsoabayo4Lnoe op/ps/owasuo_up_1_ionwoa/pvp441cut_0_stat_impe_wpewt_ipvuc_0_vept</pre>	Root Certificate
12	3E/ FC/ SARCHOGEDyldlQHWSA/ FAB44IGABSHIA4DJIBSHAFSWL+IBFUIHp9EACES	
1.0	Indigite+K21WA/mLub+Ogrioch45dsx20foDxh0Wh0+2m5d/h319exx10Dcw1vw20	
1.5	xq0xrvbscjbcoq4xvsas24xnyr9i5xx2vp42nwcbdi500awx+vm/novrornum/wi	
10	2921WK90KA4CK00RVPDWHVNTK/IIAgMDAAGJUIDPHASGAIUdDWQLAWIDNJAPDgNV	
10	nkHDATOLDIADAQN/HDUGAIUADQQWDDKOVPONDNWNDANQUE9TOEAUDWLngJAQDgaT	
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10	hriunkkis22DpA2w5qw901rmpw13rd52kE251DvuaNcc7B8W0hgWT3HxnyuMTy21	
22	Doir/nbor3250phr01b222tqk4qouE1gyoaUZaLcVhV50dBCCvwy019yU6+EscnM	
10		
	END, CERTIFICALE	
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paquete de certificados CUPS

Introduzca los certificados de paquete creados anteriormente en el servidor CMS mediante WinSCP.

Name	Size	Туре	Name	Size	Changed	Rights	Owner
L		Parent director	C2wip.key	198 KB	5/16/2020 3:44:38 PM	rr	admin
cupbun.cer	4 KB	Security Certifi	CA.cer	198 KB	8/17/2021 9:36:00 PM	rr	admin
eucmbun.cer	4 KB	Security Certifi	CA222.cer	198 KB	8/17/2021 10:53:32 PM	rr	admin
			CA2222.cer	198 KB	8/24/2023 9:35:26 AM	rr	admin
			CB1.csr	198 KB	8/24/2023 2:58:43 PM	rr	admin
			CB1.key	198 KB	8/24/2023 2:58:43 PM	rr	admin
			CB222.cer	198 KB	8/17/2021 11:07:26 PM	rr	admin
			CB222.csr	198 KB	8/18/2021 4:21:01 AM	rr	admin
			CB222.key	198 KB	8/18/2021 4:21:01 AM	rr	admin
			CB2222.cer	198 KB	8/24/2023 9:35:26 AM	rr	admin
			a) cmm.csr	198 KB	4/20/2022 11:12:14 PM	rr	admin
			🗋 cmm.key	198 KB	4/20/2022 11:12:14 PM	rr	admin
			cms.cer	198 KB	9/21/2021 12:18:15 PM	rr	admin
			and cms.lic	198 KB	10/26/2023 5:54:51 PM	rr	admin
			🙀 cucmbun.cer	198 KB	10/4/2023 7:18:03 PM	rr	admin
			La cup.cer	198 KB	10/4/2023 3:51:03 PM	rr	admin
			cupbun.cer	198 KB	10/4/2023 7:22:10 PM	rr	admin
			Feb_09_2023_14_14.bak	518 KB	2/9/2023 2:13:12 PM	rr	admin
			Feb_10_2023_13_27.bak	518 KB	2/10/2023 1:25:05 PM	rr	admin

Copiado de paquetes de certificados a CMS

Asigne el certificado de agrupamiento TOMCAT en Callbridge mediante callbridge ucm certs <cert-bundle>.



Callbridge cert trust

Asigne el certificado de paquete del servidor CUP en Callbridge mediante callbridge imps certs <cert-bundle>.



Ejecutecallbridge el comando para verificar si los paquetes de certificados están asignados.



Callbridge trust cert check

Inicie sesión en CUCM como administrador de CM, navegue hasta User Management > User Settings > Access Control Group, haga clic en Add New y cree un grupo de control de acceso CUCM_AXL_Group.

cisco	Cisco L For Cisco	Unified CM	Administrat	ion				
System 🔻	Call Routing 🔻	Media Resources	Advanced Features	s 🔻 Device	 Application 	User Management 🔻	Bulk Administration 👻	Help 🔻
Access Co	ontrol Group	Configuration						
Save								
_Status—								
i Statu	us: Ready							
Access 0	Control Group	Information-						
Name*			CUCM_AXL_GROUP					
Available	for Users with	User Rank as *	1 - Default User Ran	k		~		
Save								
(i) *- ir	ndicates requir	ed item.						
Creando gri	upo AXL							

Asigne la función Standard AXL API Access al grupo de control de acceso creado anteriormente.

Cisco Unified CM Administration For Cisco Unified Communications Solutions	Skip to Content Navigation Cisco Unified CM Administration cisco About						
System • Call Routing • Media Resources • Advanced Features • Device • Application • User Manager	pent 💌 Bulk Administration 👻 Help 💌						
cess Control Group Configuration Related Links: Back TO Find/List 👻							
📊 Save 🗶 Delete 🗈 Copy 👍 Add New	Back To Find/List Assign Role to Access Control Group						
Status: Ready	Roles Dependency Records						
Access Control Group Information Name* CUCM_AXL_GRDUP Available for Users with User Rank as * 1 - Default User Rank v							

Asignación de acceso API al grupo AXL

Name [*] CUCM_AXL_GROUP	
Role Assignment	
Role Standard AXL API Access	
	Assign Role to Group
	Delete Role Assignment
Save	

Desplácese hasta User Management > Application User, haga clic en Add New y cree un usuario de aplicación AXLuser. A continuación, asigne el grupo de control de acceso creado anteriormente.

m • Cas Routing • Media Resources • Advanced Peatures • Device • Application • User Management • Buik Administration • Hep •		
lication User Configuration		
544		
lus		
Status: Ready	Find and List Access Control Groups — Mozilla Firefox —	×
lication they information		
r ID ⁸ ashaset	O A https://10.106.113.229/ccmadmin/userGroupFindList.	
Im Passuord	Perdonal Multi America Control Communication	
A Credentiala	Pind and List Access Control Groups	
Im Dipest Credentials	Select All Clear All High Add Selected	
resence Group* Standard Presence group v		
Rank* 1-Default User Rank v	statu	
Accept Presence Subscription	3 30 records found	
Accept Out-of-dialog REFER		
Accept Unsolicited Notification	Access Control Group (1 - 30 of 30) Rows p	er Page 50
locept Replaces Header	Find Access Control Group where Name ~ tegins with ~ Find Clear Filter @	
a faformation		
	Admin-3rd Party APL	1
Auto-registration Template	Application Clant Users	1
CSPieel Device Association	CUCH_AKL_GROUP	1
SEPOBIOADSP6366 (Fills more House Points)	SCHOOL OWN	1
SEPURPORT STOLEN	Standard CAR Admin Users	1
**	Standard CCM Admin Users	5
	Standard CCM End Users	1
	Standard CCM Gateway Administration	1
	Standard CCH Phone Administration	1
able Profiles	Slandard CCH Read Only	1
	Standard CCH Server Haintenance	1
	Standard CCM Server Honitoring	1
**	Standard CCM Super Users	1
Controlled Device Profiles	 Standard Confidential Access Level Users 	1
	Standard CTI Alex Call Honitoring	1
	Standard CTI Allow Call Park Monitoring	1
DE Tafaccuillas	Standard CTI Allow Call Recording	1
r andre fait fait for fine (Standard CTI Allow Calling Number Modification	1
	Standard CTI Allow Control of All Devices	1
	 Standard CTI Allow Control of Phones supporting Connected Xfer and conf 	1
View Details	 Standard CTI Allow Control of Phones supporting Rollover Hode 	1
and all a second s	Standard CTI Allow Reception of SRTP Key Matanial	1 I
	Standard CTI Enabled	1
Add to Access Control Group	Randard CTI Sesure Connection	1
	Standard EM Authentication Proxy Rights	

Creación de un usuario y asignación de un grupo AXL

Cree un usuario CUP y asígnele estas dos funciones: Third Party Application Users y Admin-3rd Party API.

Application User Config	uration			
🔜 Save 🗙 Delete 🗋	Copy 🖧 Add New		https://10.106.113.229/ccmadmin/userGroupFindList.do?whe 50%	☆ =
Application User Informa	ation			
User ID*	cupuser	Edit Credential	Find and List Access Control Groups	
Password]	Select All Clear All Add Selected To Close	
Confirm Password	••••••]		
Digest Credentials]	11 records found	
Confirm Digest Credentials]		
BLF Presence Group*	Standard Presence group v		Acress Control Course (1 - 31 of 31)	Pours per Pane 50 v
User Rank*	1-Default User Rank v			North Per Page 24
Accept Presence Subscrip	ption		Find Access Control Group where Name 🔻 begins with 👻 ad 🛛 Find Clear Filter 🕹 🚥	
Accept Out-of-dialog RE	FER.		Name *	Rank
Accept Unsolicited Notife	cation		Admin-3rd Party API	1
Accept Replaces Header	•		Application Clienc Users	1
			CUCM_AXL_GROUP	1
Device Information		-	CUP_User_GRP	1
Available Devices	Auto-registration Template		Standard Audit Users	1
	CSPsalacano CSPsal	Device Association	Sandard CAR Admin Users	1
	SEPO896AD5F6396	Find more Route Po	Standard CCM Admin Users	1
	SEP08964D5F6397		Standard CCM End Users	1
	**		Standard CCM Gateway Administration	1
Controlled Devices			Standard CCM Phone Administration	1
			Sandard CCM Read Only	1
			Sandard CCM Server Maintenance	1
Available Profiles			Standard CCM Server Menitoring	1
			Sandari CCM Super Litera	1
			Sector of confectual investigations	
			C Statist (T Also Al Machain	
	**		Sandari Citi Aleo dal Park Mathema	
CTI Controlled Device Profile	es		C Sector CT Also Cel Associate	
		X	Oracles of The law Control of the Manifester	
			Sentary Citizen Camp where resident	
CAPF Information			Administrative concerning of the second proceeding of the and conference of the second proceeding of the second proc	
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			Saman Cit Alex Centre of Promes Supporting Releven Hole	
			sanaaro Citi xievii kiteepeen er skite key Hatenai	1
	v	iew Details	Standard CII theoled	1
- Desmissions Taformatio			Sanaho Citi secue Connecton	
Concert			Standard EM Authentication Proxy Rights	1
woops	[add	to Access Control Group	Standard EM Roaming Across Clusters Super Users	1
	Rem	ove from Access Control Group	Stendard Packet Snifter Users	1
	View Details		Standard ReatimeAndTraceCollection	1
Roles			Standard TabSync User	1
			Third Party Application Users	1
	Mar Determ		Select All Clear All Add Selected Close	
	Vew Details			

Creación de usuario CUP

Habilitar la verificación de certificados para el certificado de CUCM y el servicio IM & Presence Service (IMPS) de Cisco Unified Communications Manager en CMS mediante:

callbridge ucm verify <enable/disable>

callbridge imps verify <enable/disable>



Callbridge verify CUCM and CUPS cert

Verifíquelo ejecutando el callbridge comando.



Callbridge command check

Ahora agregue el nombre de dominio completamente calificado (FQDN) de CUCM y el usuario **AXL** y **CUPS** creados anteriormente en CMS mediante callbridge ucm add <hostname/IP> <axl_user> <presence_user>.

axl_user = usuario AXL en CUCM

presence_user = usuario de CUP creado anteriormente

wb3>
wb3> callbridge ucm add <hostname ip=""> <axl user=""> <presence user=""></presence></axl></hostname>
Only 1 UCM node is allowed. Delete existing UCM node to add a new UCM node.
wb3> callbridge ucm add cucm14test.test.com axluser cupuser
Enter axl user password:
Enter presence user password:
UCM node updated successfully. Restart the callbridge for changes to take effect.
wb3>
wb3>

Adición de CUCM a Callbridge

Ahora, verifique si CMS confía en los servicios de CUCM con la ayuda de:

callbridge ucm <hostname/IP> axl_service status

callbridge ucm cucm14test.test.com axl_service status



estado de Callbridge AXL

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

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



estado de presencia de Callbridge

Los servicios disponibles implican que CUCM y CMS confían entre sí para los servicios de AXL y Presence.



CUCM tiene usuarios del protocolo ligero de acceso a directorios (LDAP) sincronizados y también actualizados en CUPS. Los usuarios deben tener el mismo ID de usuario de la aplicación web y Jabber JID y deben haber iniciado sesión en la aplicación web con el mismo ID de usuario para que la presencia se actualice en Jabber.

Configuración específica de CUCM para el uso compartido de presencia entre Webapp y el cliente Jabber

CUCM debe tener LDAP configurado.

Sistema LDAP:

LDAP System Configura	tion						
– Status –							
Please Delete All LDA	P Directories Before Making Changes on This Page						
Please Disable LDAP A	uthentication Before Making Changes on This Page						
LDAP System Information							
C Enable Synchronizing from LDAP Server							
LDAP Server Type	Microsoft Active Directory	~					
LDAP Attribute for User ID	sAMAccountName	•					

Configuración LDAP 1 de CUCM

Directorio LDAP:

LDAP Directory								Re	ated Links: Back to
🔚 Save 🗶 Delete [Copy	Perform Fu	ull 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 ar	nd Groups						
LDAP Custom Filter for Groups	< None >			~					
- I DAP Directory Synchronization 5	Schedule								
Perform Sync Just Once									
Perform a Re-sync Every*	2		DAY						
Next Re-sync Time (YYYY-MM-DD h	h:mm)* 2022-1	10-21-00:00	DAT						
	2023	10-31 00:00							
Standard User Fields To Be Synch	nronized ——						 		
Cisco Unified Communications Mana	ger User Fields	LDAP Attribu	te					Cisco Unified Communications Manager User Fi	lds LDAP Attribute
User ID		sAMAccount	Name					First Name	givenName
Middle Name		middleName	~					Last Name	sn
Manager ID		manager						Department	department
Phone Number		telephoneNu	umber 🖌					Mail ID	mail
Title		title						Home Number	homephone
Mobile Number		mobile						Pager Number	pager
Directory URI		mail	v					Display Name	displayName

Configuración LDAP 2 de CUCM

Autenticación LDAP:

Configuración LDAP de CUCM 1 Configuración LDAP de CUCM 1 Configuración LDAP de CUCM 1 Configuración LDAP de

LDAP Authentication						
Save						
Status						
i Status: Ready						
LDAP Authentication for End User	5					
Use LDAP Authentication for End	I Users					
LDAP Manager Distinguished Name*	LDAP Manager Distinguished Name* administrator@test.com					
LDAP Password*	•••••	j				
Confirm Password*	•••••]				
LDAP User Search Base*	OU=Acano,DC=test,DC=com]				
L DAP Server Information						
Hos	LDAP Port* Use TLS					
Add Another Redundant LDAP Ser	ver					

CUCM 3

Usuarios extraídos de LDAP en CUCM con ID de correo configurado:

End User Configuration		
🔚 Save 🗙 Delete 🗧	🔓 Add New 🔘 Revoke Refresh Token	
Status Status: Ready		
User Information		
User Status User ID* Self-Service User ID	Active Enabled LDAP Synchronized User test 1000	
PIN	••••••	Edit Credential
Confirm PIN	••••••	
Last name* Middle name	test	
First name	test	
Display name Title	test test	
Directory URI Telephone Number	test@test.com	
Home Number		
Mobile Number		
Pager Number		
Mail ID	test@test.com	
Manager User ID		

Usuarios en CUCM

Usuario de CUCM actualizado en servidor CUPS:

dialo	Cisco Unified CM IM and Presence Administration							Cisco Unified CM IM	and Presence	Administration 、	• Go
	For cisco onnica communica	idons solutions								• Logout	About
System -	Presence - Messaging -	Application - Bulk A	Administration - D	Diagnostics 🔻	Help 🕶						
E Presence	e Topology	Node User Assi	gnment (impnew	v.test.com)							
E-80	impnew.test.com	Status									
ali u	assigned Users (0)	i 2 records	found								
All A	ssigned Users (2)										
-		User Assignm	ent (1 - 2 of 2	2)					F	tows per Page	50 v]
		Find User Assign	nment where User	r ID 🗸 🗸	begins with v		Find Clear Filter	4 -			
		User ID 🔺	First Name	Last Name	IM Address	Directory URI	Failed Over	Node	Pre	sence Redundancy G	roup
		test	test t	est	test@test.com	test@test.com		impnew.test.com	Default	CUPSubcluster	
		test2	test2 2	2	test2@test.com	test2@test.com		impnew.test.com	Default	CUPSubcluster	

Usuarios en CUPS

El mismo directorio LDAP también está configurado en el CMS. La base de datos de usuarios se extrae y sincroniza en CMS.



Status 🔻 Configuration 👻 Logs 💌

Users		
Filter	Submit Query	
Name	Email	
Gogi	gogi@s.com	gogi@s.com
Saiacano	saiacano@s.com	Saiacano@s.com
cms user	cmsuser1@saml.com	cmsuser1@saml.com
go go	gogo@federation.com	gogo@federation.com
ivrman	ivrman@s.com	ivrman@s.com
joey	joey@s.com	joey@s.com
popo1 1	popo11@saml.com	popo11@saml.com
prashant	prkapur@s.com	prkapur@s.com
replication user	replicationuser@saml.com	replicationuser@saml.com
sai 1	sai1@saml.com	sai@saml.com
sai1 acano	sai1acano@federation.com	sai1acano@federation.com
saml superuser	ssosuperuser@saml.com	ssosuperuser@saml.com
sankar v		sankar@s.com
shakur 2pac	2pac@s.com	2pac@s.com
test test	test@test.com	test@test.com
test2	test2@test.com	test2@test.com
user 1	user1@saml.com	user1@saml.com

usuarios de CMS

Ahora, puesto que ya ha validado que CMS puede confiar en CUCM, puede continuar con la prueba de presencia.

wb3> wb3> callbridge ucm add <hostname/IP> <axl_user> <presence_user> Onlv 1 UCM node is allowed. Delete existing UCM node to add a new UCM node. wb3> callbridge ucm add cucm14test.test.com axluser cupuser Enter axl user password: Enter presence user password: UCM node updated successfully. Restart the callbridge for changes to take effect. wb3> wb3> []

Adición de CUPS y CUCM a CMS

Verificación

Conectado a dos clientes con el mismo usuario (sincronizado desde el mismo LDAP):



Inicio de sesión de usuario en Jabber y webapp

Ambos clientes iniciaron sesión en el mismo usuario test@test.com.

M	0		TT	•	- 🗆 ×
1 test.space		D	test@test.com Status Augilable >		
	test test's Home	°-	My Profile		
	Last login 2023-10-26 at 1357. See details		Settings		
			Sign Out		
	Join a meeting			٢	
	My spaces		Add Centaet New Custom Contact		
	test.space Or Join				
	test space				
		2	•		

Presencia en Jabber y Webapp antes de la llamada



El estado de presencia cambia cuando se une una llamada desde webapp

Cuando un usuario de Jabber inicia sesión en la aplicación web y se une a una reunión, el servidor de reuniones actualiza el estado de Jabber a "En una reunión, en una llamada" y vuelve a su estado anterior una vez que el usuario finaliza la reunión. Por ejemplo, si el estado del usuario en Jabber es "Disponible", se actualiza a "En una reunión, en una llamada" cuando se encuentra en una reunión de aplicación web. Una vez que el usuario abandona la reunión, el estado de Jabber se vuelve a definir como "Disponible". Si el usuario de Jabber se encuentra en otra reunión o llamada mientras se une a la reunión de la aplicación web, el servidor de reuniones no actualiza el estado de Jabber. Si el usuario de Jabber ha establecido su estado en 'No molestar' antes de unirse a la reunión de la aplicación web, el servidor de reuniones no actualiza el estado de Jabber. Si el usuario actualiza el estado de Jabber manualmente en cualquier momento durante la reunión de la aplicación web, el servidor de reuniones no invalida el estado de usuario actualizado manualmente.

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