Exchange-certificaten met de tool Contact Center Uploader

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Inleiding

Dit document beschrijft het Hulpmiddel van Uploader van het Contactcenter dat certificaten in de Unified Contact Center Enterprise (UCCE) oplossing krijgt en uploadt.

Voorwaarden

Vereisten

Cisco raadt kennis van de volgende onderwerpen aan:

- UCS release 12.6(1)
- CVP-release (Customer Voice Portal) 12.6(1)
- Enterprise Chat en e-mail (ECE) release 12.6(1)

Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende softwareversies:

- UCS 12.6(1)
- CVP 12.6(1)
- ECE 12.6(1)

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk live is, moet u zorgen dat u de potentiële impact van elke opdracht begrijpt.

Achtergrondinformatie

In de UCCE/PCCE-oplossing van 12.x worden alle apparaten bestuurd via Single Pane of Glass (SPOG) dat wordt gehost in de hoofdserver van Admin Workstation (AW). Vanwege security-management-compliance

(SRC) in PCE 12.X versies, wordt alle communicatie tussen SPOG en andere servers in de oplossing strikt gedaan via een beveiligd HTTP protocol.

Certificaten worden gebruikt om naadloze veilige communicatie tussen SPOG en de andere apparaten te realiseren. In een zelf-ondertekende certificaatomgeving wordt de uitwisseling van certificaten tussen de servers een must. Deze certificaatuitwisseling is ook nodig om nieuwe functies mogelijk te maken die aanwezig zijn in de versies 12.5 en 12.6, zoals Smart Licensing, Webex Experience Management (WXM) en Customer Virtual Assistant (CVA).

Probleem

Certificaatuitwisseling kan een moeilijke taak zijn voor mensen die niet vertrouwd zijn met de javakeytoolvan het gebruiksgemak, met name wanneer zelfbedieningscertificaten worden gebruikt.

Verkeerde acties kunnen problemen veroorzaken met de configuratie van de oplossing en de gezondheid ervan.

Certificaten kunnen verlopen en vernieuwen is een andere uitdaging.

Oplossing

Het artikel bevat een link naar de Contact Center Uploader Tool (CCUT) geschreven in Java die u helpt bij de taak.

De tool kan verbinding maken met de UCCE-database of met de ESXi-host, krijgt de gegevens over alle hosts vanaf daar, krijgt een certificaat van elke host en uploadt het naar de java **cacerts** trust store.

Opmerking: de tool is gemaakt door Cisco TAC-engineers en er is geen officiële ondersteuning. U kunt <u>ccut@cisco.com</u> gebruiken voor feedback, vragen en problemen.

UCS/PCE-modus

Het belangrijkste toepassingsvenster van het gereedschap in de UCCE/PCCE-modus staat in de afbeelding:

CCUT: Conta	ect Center Uploader Too	I				
UCCE version () 12.0/12.5 (i) 12.6	Keystore details Path to cacerts Keystore Password	ore details to cacerts C:\icm\ssl\cacerts core Password		Mode O Free O ESXi O UCCE/PCCE		Cisco Custo
AW database name _awdb Username		Vindows Authentification Password		Load I Upload all	certificates	

• AW database name: vermeld de naam van de AW-database, logger of database **met** inventarisgegevens. Er moeten gegevens in de tabellen **t_Machine...** staan. Als het gereedschap wordt uitgevoerd op de UCCE-host waarop de databasecomponent niet is geïnstalleerd, kan de externe SQL-servernaam (Structured Query Language) worden toegevoegd als voorvoegsel aan de databasenaam.

Bijvoorbeeld AWHDS-A\pcce_awdb

Dit is van toepassing voor apparaten met randgateway (PG) of ROUTER.

- Username en Password voor de SQL-gebruiker met toegangsrecht om de databasegegevens te lezen. Controleer de Windows Authentification om geïntegreerde Windows-verificatie te gebruiken in plaats van SQL.
- UCCE version: patch to the cacerts bestand is afhankelijk van de geïnstalleerde UCCE versie.
- Path to cacerts: Plaats van het cacerts-bestand. In de UCCE 12.6.X gebruikt het systeem C:\icm\ssl\cacerts, UCCE 12.5 de standaard Java truststore (%CCE_JAVA_HOME%\lib\security\cacert).
- Keystore Password: het standaardwachtwoord voor de opslag van cacerts wordt gewijzigd.
- Store Type: UCCE gebruikt JKS type van de winkel, terwijl CVP JCEKS gebruikt.
- Load Inventory knop: De tool maakt verbinding met de genoemde database en toont de inventarisgegevens.
- Upload all certificates knop: De knop is beschikbaar nadat de tool de gegevens uit de database krijgt.

Voorbeeld van de geladen gegevens in het beeld:

	CCUT: Contact	t Center Uploader To	ol		
	UCCE version () 12.0/12.5 (i) 12.6	Keystore details Path to cacerts Keystore Password	C:\icm\ssl\cacerts ••••••• Store Type JCEKS © JKS	Mode O Free O ESXi O UCCE/PCCE	Cisco Custo i
	AW database nar	me pcce_awdb	Windows Authentification	Load Inventory	
i	Username		Password	Upload all certificates	
	Hostname	IP-address	Machine Type	Status	Expiration
	cvpcsa126.cc.lab) 192.168.33.137	Unified CVP	Unknown yet	Unknown y
	cvpcsb126.cc.lab	192.168.33.138	Unified CVP	Unknown yet	Unknown y
	cucmpub.cc.lab	192.168.33.20	Unified CM Publisher	Unknown yet	Unknown y
ł	cucmsub.cc.lab	192.168.33.120	Unified CM Subscriber	Unknown yet	Unknown y
	cucmsub2.cc.lab	192.168.33.160	Unified CM Subscriber	Unknown yet	Unknown y
5	cuic-pub126.cc.l	lab 192.168.33.141	Coresident CUIC, Live Data, and IDS Publisher	Unknown yet	Unknown y
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	finb126.cc.lab	192.168.33.140	Finesse	Unknown yet	Unknown y
	fina126.cc.lab	192.168.33.139	Finesse	Unknown yet	Unknown y
	ccp126.cc.lab	192.168.33.146	External Customer Collaboration Platform	Unknown yet	Unknown y
	cvprs126.cc.lab	192.168.33.145	External CVP Reporting Server	Unknown yet	Unknown y
	eceapp126.cc.lat	b 192.168.33.144	External Enterprise Chat and Email	Unknown yet	Unknown y
	pgb126.cc.lab	192.168.33.134	Unified CCE Peripheral Gateway	Unknown yet	Unknown y
	pga126.cc.lab	192.168.33.133	Unified CCE Peripheral Gateway	Unknown yet	Unknown y
	awhdsh126.cc.la	b 192,168,33,136	Unified CCE AW	Unknown vet	Unknown y

De inventarisgegevens bestaan uit 6 kolommen:

- Hostname
- IP-adres
- Machinetype
- Status van de certificaatgegevens of foutdetails
- Vervaldatum certificaat
- Gegevens

De resultaten van de knop Alle certificaten uploaden:

CCUT: Contact Center Uploader Tool UCCE version Path to cacerts Reystore Password I.2.6 Path to cacerts Reystore Password I.2.6 AW database name pccel_awdb Windows Authentification Username Password Cucmsub2.cc.lab 192.168.33.160 Unified CM Subscriber Cucmsub2.cc.lab 192.168.33.140 Finese Done: Certificate is already trusted Mon, 25 Set cuc-sub126.cc.lab 192.168.33.140 Finese Done: Certificate is already trusted Mon, 25 Set cup126.cc.lab 192.168.33.140 Finese Done: Certificate is already trusted Mon, 25 Set cop126.cc.lab 192.168.33.140 Finese Done: Certificate is already trusted Mon, 25 Set cop126.cc.lab 192.168.33.145 External Cutomer Collaboration Platform Dene: Certificate is already trusted Mon, 25 Set cop126.cc.lab 192.168.33.145 External Cutomer Collaboration Platform Dene: Certificate is already trusted Mon, 25 Set cop126.cc.lab 192.168.33.145 External Cutomer Collaboration Platform Dene: Certificate is already trus					
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vvb125.cc.lab192.168.33.77Cisco Virtualized Voice BrowserDone: Certificate is already trustedThu, 21 Apreceweb126.cc.lab192.168.33.143ECE Web ServerDone: Certificate is already trustedFri, 29 Sep 2	rgrb126.cc.lab	192.168.33.132	Unified CCE Rogger	Done: Certificate is already trusted	Mon, 25 Sep
eceweb126.cc.lab 192.168.33.143 ECE Web Server Done: Certificate is already trusted Fri, 29 Sep 2	vvb125.cc.lab	192.168.33.77	Cisco Virtualized Voice Browser	Done: Certificate is already trusted	Thu, 21 Apr
	eceweb126.cc.l	lab 192.168.33.143	ECE Web Server	Done: Certificate is already trusted	Fri, 29 Sep 2

Elke groene rij is een succes.

De rode of gele rij moet goed worden opgelet.

ESXi-modus

ESXi-modus kan worden gebruikt voor PCE/UCCE verse installatie wanneer de inventaris nog niet is geconfigureerd en **t_Machine...** tabellen bevatten geen gegevens.

De tool maakt verbinding met de ESXi-host en krijgt vanaf daar de gegevens over alle virtuele machines.

Het vraagt Virtual Machine (VM) naam, VM annotaties, en hostname van het gastbesturingssysteem.

VM-annotaties worden gebruikt om het machinetype te identificeren.

VmWare-tools moeten op VM's worden uitgevoerd. Anders is de hostnaam niet ingevuld.

In het beeld staat het gereedschap in de ESXi-modus:

CCUT: Contac	ct Center Uploader To	ol				
UCCE version () 12.0/12.5 (i) 12.6	UCCE version () 12.0/12.5 (i) 12.6 Keystore details Path to cacerts Keystore Password (i) 12.6 (i) 12.6 (i		rts JCEKS IKS		Mode O Free ESXi UCCE/PCCE	CX Cisco Custo
ESXI server add	ress esxi.cc.lab				Load V	/Ms
Username	root	Password	d ••••••	••••	Upload all ce	ertificates
V/M name	VM Tune	Hertrame	Derte	Ctatur		Euristian data
VIVI name	VIVI Type	Net susilable	Ports	N/A		Expiration date
test_2	Unknown	Not available		N/A		
UCCE	UCCE	RGRA126	443 and 7890	Portico: Don already trust	ne: Certificate is ted	IIS: Mon, 25 Sep 2023 Portico: Mon, 25 Sep
сvр	CVP	CVPCSA126	8111	Done: Certif	icate is already trusted	d Mon, 25 Sep 2023
Finesse	Finesse	FINB126	8443	Done: Certif	icate is already trusted	d Mon, 25 Sep 2023
CUIC	CUIC	CUIC-PUB126	8443	Done: Certifi	icate is already trusted	d Mon, 25 Sep 2023
VMware vCente	r Server Unknown	Not available		N/A		

Opmerking: VCenter wordt niet ondersteund voor verbindingen.

Vrije modus

Een andere modus van het gereedschap is de Vrije modus.

Er is geen vereiste om UCCE Database beschikbaar te hebben en de tool kan worden gebruikt om eventuele certificaten te uploaden naar CVP of ECE.

Bijvoorbeeld gebruikscases:

- Ontvang en upload het webservicecertificaat van derden naar CVP.
- Verkrijg en upload mailservers certificaten naar ECE services server.
- Verkrijg en upload de certificaten van het Inbraakdetectiesysteem (IDS) aan ECE toepassingsserver.

Opmerking: het gereedschap kan geen certificaten uploaden naar het CVP **.keystore-**bestand vanwege bepaalde beperkingen.

In de illustratie staat een voorbeeld van de tool in de **modus** Vrij:

CCUT: Contac	ct Center Uploader Too	bl						
UCCE version () 12.0/12.5 () 12.6	Keystore details Path to cacerts Keystore Password	C:\icm\ssl\ca	acerts	Store Type O JCEKS O JKS	Mode Free ESXi UCCE	E/PCCE	CX	Cisco Custo
Add host Hos	stname		Port			Result		
cis	co.com		443	Get and upload o	ertificate	Done: O	Certificate is alread	ly trusted
vv	b125.cc.lab		8443	Get and upload o	ertificate	Done: C	Certificate is alread	ly trusted
ec	eweb126.cc.lab		443	Get and upload o	ertificate	Done: C	Certificate is alread	dy trusted
				Get and upload o	ertificate	Unknov	vn yet	
				Get and upload o	ertificate	Unknov	vn vet	
							,	

Het gereedschap uitvoeren

Download de tool Contactcenter Uploader.

Haal het gedownloade archiefbestand eruit.

Het Launcher-bestand bevat paden naar de pot en Java.

Werk het pad naar Java en naar het JAR-bestand indien nodig bij.

Open de opdrachtprompt (cmd) met beheerdersrechten.

Ga naar de uitgenomen map door **cd** opdracht en voer de **LauncherX86.bat uit** om het gereedschap te starten.

Waarschuwing: neem altijd een back-up van het bestand van de vertrouwensopslag.

Technische gegevens

- Het hulpmiddel verbindt met de gastheer en controleert als het certificaat of niet wordt vertrouwd op. Als het niet vertrouwd is, wordt het certificaat geüpload.
- Het certificaat wordt geüpload met de alias **util-[hostname]-[port]**, bijvoorbeeld **util-vvb125.cc.lab-8443**.
- Een host kan meer dan één certificaat verzenden. In dit geval, uploadt het hulpmiddel al deze certificaten als wortel en/of middenprefixes.
- De tool is gecompileerd met java 1.8.

- Het gereedschap maakt verbinding met de database door localhost:1433 standaard.
 De minimale schermresolutie is 1024x768. Schaalmodus wordt niet ondersteund.

Over deze vertaling

Cisco heeft dit document vertaald via een combinatie van machine- en menselijke technologie om onze gebruikers wereldwijd ondersteuningscontent te bieden in hun eigen taal. Houd er rekening mee dat zelfs de beste machinevertaling niet net zo nauwkeurig is als die van een professionele vertaler. Cisco Systems, Inc. is niet aansprakelijk voor de nauwkeurigheid van deze vertalingen en raadt aan altijd het oorspronkelijke Engelstalige document (link) te raadplegen.