

CUCME/CME のための基本設定 ガイド

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概要

この資料は記述したものです CUCME/CME (Cisco Unified Communications Manager Express) を設定するために 10 のクイック・ステップを

Cesar アロンソおよび Cisco TAC エンジニアによって貢献される。

前提条件

要件

- IOS ルータ
- IP Phone
- PSTN (オプションの) への接続

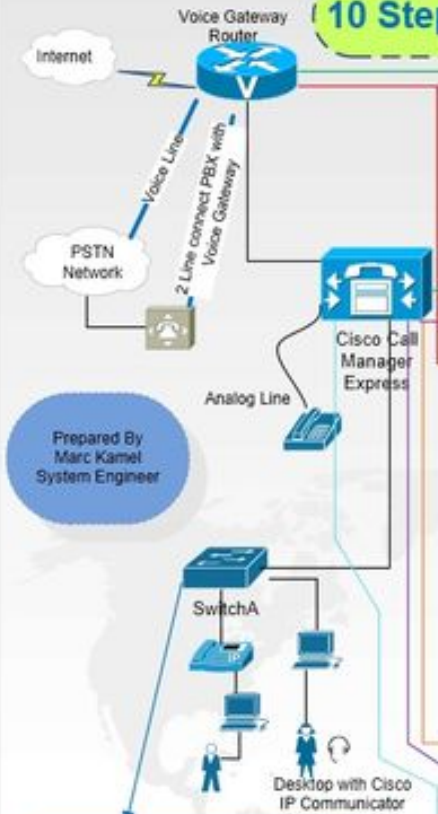
使用するコンポーネント

- CUCME バージョン
- IP Phone

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されたものです。使用された削除された (デフォルト) コンフィギュレーションでデバイスすべてはここに起動しています。ネットワークが稼働中の場合は、コマンドが及ぼす潜在的な影響を十分に理解しておく必要があります。

設定

10 Step to configure Cisco Call Manager Express



1

Configuring a Switch Trunk Port
 SwitchA(config)# interface fa0/24
 SwitchA(config-if)# switchport trunk encapsulation dot1q
 SwitchA(config-if)# switchport mode trunk

Creating VLANs
 SwitchA# configure terminal
 SwitchA(config)# vlan 10
 SwitchA(config-vlan)# name VOICE
 SwitchA(config-vlan)# exit
 SwitchA(config)# vlan 50
 SwitchA(config-vlan)# name DATA

Assigning Switchport to a VLAN
 SwitchA# configure terminal
 SwitchA(config)# interface fa0/10
 SwitchA(config-if)# switchport mode access
 SwitchA(config-if)# switchport access vlan 50

Assigning Voice and Data VLANs
 SwitchB# configure terminal
 SwitchB(config)# interface range fa0/1 - 4
 SwitchA(config-if-range)# switchport mode access
 SwitchA(config-if-range)# switchport access vlan 50
 SwitchA(config-if-range)# switchport voice vlan 10

Configuring a Trunk to the CME Router
 SwitchA# configure terminal
 SwitchA(config)# interface fa0/20
 SwitchA(config-if)# description CONNECTION TO ROUTER-ON-A-STICK CME ROUTER
 SwitchA(config-if)# switchport trunk encapsulation dot1q
 SwitchA(config-if)# switchport mode trunk

10

Verifying Files Served by the CME TFTP Service
 CME_Voice# show telephony-service tftp-bindings
 tftp-server system:/its/SEPDEFAULT.cnf alias SEPDefault.cnf
 tftp-server system:/its/XMLDefault.cnf.xml alias XMLDefault.cnf.xml
 tftp-server system:/its/ATADefault.cnf.xml
 tftp-server system:/its/united_states/7960-tones.xml alias United_States/7960-tones.xml

2

Configuring Inter-VLAN Routing

```

Router# configure terminal
Router(config)# interface fa0/0
Router(config-if)# no ip address
Router(config-if)# exit
Router(config)# interface fa0/0.10
Router(config-subif)# description ROUTER INTERFACE FOR VOICE VLAN
Router(config-subif)# encapsulation dot1q 10
Router(config-subif)# ip address 172.16.1.1 255.255.255.0
Router(config-subif)# ip helper-address 172.16.2.5
Router(config-subif)# exit
Router(config)# interface fa0/0.50
Router(config-subif)# description ROUTER INTERFACE FOR DATA VLAN
Router(config-subif)# encapsulation dot1q 50
Router(config-subif)# ip address 172.16.2.1 255.255.255.0
    
```

3

Configuring a Router-Based DHCP Server

```

RTR# configure terminal
RTR(config)# ip dhcp excluded-address 172.16.1.1 172.16.1.9
RTR(config)# ip dhcp excluded-address 172.16.2.1 172.16.2.9
RTR(config)# ip dhcp pool DATA_SCOPE
RTR(dhcp-config)# network 172.16.2.0 255.255.255.0
RTR(dhcp-config)# default-router 172.16.2.1
RTR(dhcp-config)# dns-server 4.2.2.2
RTR(dhcp-config)# exit
RTR(config)# ip dhcp pool VOICE_SCOPE
RTR(dhcp-config)# network 172.16.1.0 255.255.255.0
RTR(dhcp-config)# default-router 172.16.1.1
RTR(dhcp-config)# option 150 ip 172.16.1.1WAN_RTR(dhcp-config)# dns-server 4.2.2.2
    
```

4

Setting the Clock of a Cisco Device with NTP

```

WAN_RTR# configure terminal
WAN_RTR(config)# ntp server 64.209.210.20
WAN_RTR(config)# clock timezone Cairo +2
    
```

5

Installing CME Files into Flash Memory

```

CME_Voice# archive tar /xtract tftp://172.16.2.5/cme-full-4.3.0.0.tar flash:
    
```

6

Configuring Router-Based TFTP Services for IP Phone Firmware Files

```

CME_Voice# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
CME_Voice(config)# tftp-server flash:iphone/7940-7960/P00308000500.bin alias P00308000500.bin
CME_Voice(config)# tftp-server flash:iphone/7940-7960/P00308000500.loads alias P00308000500.loads
CME_Voice(config)# tftp-server flash:iphone/7940-7960/P00308000500.sb2 alias P00308000500.sb2
CME_Voice(config)# tftp-server flash:iphone/7940-7960/P00308000500.sbn alias P00308000500.sbn
    
```

7

Configuring the Cisco Unified CME System-Level Functions

Provisioning CME Phone and Directory Number Support

```

CME_Voice(config)# telephony-service
CME_Voice(config-telephony)# max-ephones ?
<1-32> Maximum phones to support
CME_Voice(config-telephony)# max-ephones 24
CME_Voice(config-telephony)# max-dn ?
<1-150> Maximum directory numbers supported
<en>
CME_Voice(config-telephony)# max-dn 48
    
```

Configuring CME for 7970 and 7971 Firmware Loads

```

CME_Voice(config)# tftp-server flash:iphone/7970-7971/apps70.8-3-2-27.sbn alias apps70.8-3-2-27.sbn
CME_Voice(config)# tftp-server flash:iphone/7970-7971/cnu70.8-3-2-27.sbn alias cnu70.8-3-2-27.sbn
CME_Voice(config)# tftp-server flash:iphone/7970-7971/cvm70scop.8-3-2-27.sbn alias cvm70scop.8-3-2-27.sbn
CME_Voice(config)# tftp-server flash:iphone/7970-7971/dsp70.8-3-2-27.sbn alias dsp70.8-3-2-27.sbn
CME_Voice(config)# tftp-server flash:iphone/7970-7971/jar70scop.8-3-2-27.sbn alias jar70scop.8-3-2-27.sbn
CME_Voice(config)# tftp-server flash:iphone/7970-7971/SCCP70.8-3-3S.loads alias SCCP70.8-3-3S.loads
CME_Voice(config)# tftp-server flash:iphone/7970-7971/term70.default.loads alias term70.default.loads
load 7970_SCCP70.8-3-3S.loads
Updating CNF files
CNF files update complete
CME_Voice(config-telephony)# load 7971_SCCP70.8-3-3S.loads
Updating CNF files
CNF files update complete
    
```

8

Source IP Address Information

```

CME_Voice(config)# telephony-service
CME_Voice(config-telephony)# ip source-address 172.16.1.1
    
```

9

Generating IP Phone Configuration Files

```

CME_Voice(config-telephony)# create cnf-files
CNF file creation is already On
Updating CNF files
CNF files update complete
    
```