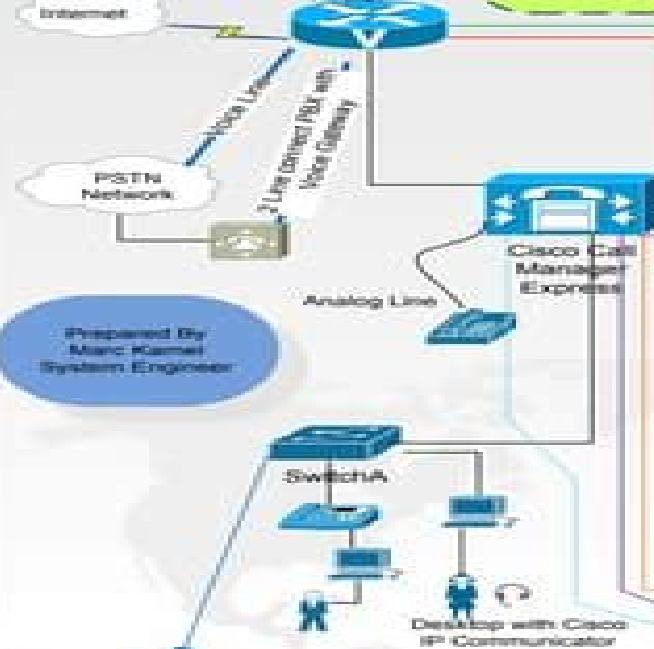


10 Step to configure Cisco Call Manager Express



Configuring a Switch Trunk Port

Creating VLANs

Creating VLABs

```
SwitchA# configure terminal
SwitchA(config)# vrrp 10
SwitchA(config-vrrp-10)# name VOICE
SwitchA(config-vrrp-10)# exit
SwitchA(config)# vrrp 10
SwitchA(config-vrrp-10)# name DATA
```

Assigning Switchport to a VLAN

```

Switch#show interfaces fastEthernet 0/20
Switch#show ip switchport
Switch#show ip switchport access vlan 20

```

Assigning Voice and Data VLANs

[illegible]

Configuring a Trunk to the CME Router

```
SwitchA(config)# terminal
SwitchA(config)# interface fa0/20
SwitchA(config)# description CONNECTION TO ROUTER
ONLY A SPOKE ONE ROUTER
SwitchA(config)# switchport mode access
SwitchA(config)#
```

Verifying Files Served by the CME TFTP

[illegible]

Configuring Inter-VLAN Routing

```

Router# configure terminal
Router(config)# interface fa0/20
Router(config-if)# no ip address
Router(config-if)# exit
Router(config)# interface fa0/18
Router(config-if)# description ROUTER INTERFACE FOR VOICE VLAN
Router(config-if)# encapsulation dot1q 10
Router(config-if)# ip address 172.16.1.1 255.255.255.0
Router(config-if)# ip helper-address 172.16.2.5
Router(config-if)# exit
Router(config)# interface fa0/20
Router(config-if)# description ROUTER INTERFACE FOR DATA VLAN
Router(config-if)# encapsulation dot1q 99
Router(config-if)# ip address 172.16.2.1 255.255.255.0

```

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 172.16.1.1
RTR(dhcp-config)# dns-server 2.2.2.2

```

Setting the Clock of a Cisco Device with NTP

```
WAN_RTR# configure terminal
WAN_RTR(config)# ntp server 64.209.219.20
WAN_RTR(config)# clock timezone Cairo +2
```

Installing CME Files into Flash Memory

CASE - Vossell withdrew her retractions <https://www.breitbart.com/politics/2019/03/04/rep-vossell-withdrew-retraction/>

Configuring Router-Based TFTP Services for IP Phone Firmware Files

[illegible]

Configuring the Cisco Unified CME System-Level Functions

Provisioning CME Phone and Directory Number Support

CME: Voiceconferencing telephony service
 CME: Voiceconferencing telephony@msn-egresses 7
 C+ 30+ Maximum phones to support
 CME: Voiceconferencing telephony@msn-egresses 2
 CME: Voiceconferencing telephony@msn-in 7
 C+ 150+ Maximum directory numbers supported
 6227

Configuring CME for 7970 and 7971 Firmware Loading

```

NAME=voiceconfig-98-ftp-server      flash:/phone/7970-7971/apps/79.8-3-27.alm alias apps/79.8-3-27.alm
NAME=voiceconfig-98-ftp-server      flash:/phone/7970-7971/home/79.8-3-27.alm alias crm/79.8-3-27.alm
NAME=voiceconfig-98-ftp-server      flash:/phone/7970-7971/voicemail/79.8-3-27.alm alias alias_cvm/79.8-3-27.alm
NAME=voiceconfig-98-ftp-server      flash:/phone/7970-7971/voip/79.8-3-27.alm alias vsp/79.8-3-27.alm
NAME=voiceconfig-98-ftp-server      flash:/phone/7970-7971/jar/79.8-3-27.alm alias jar/79.8-3-27.alm
NAME=voiceconfig-98-ftp-server      flash:/phone/7970-7971/SCPT/79.8-3-27.alm alias SCPT/79.8-3-27.alm
NAME=voiceconfig-98-ftp-server      flash:/phone/7970-7971/term/79.default.alm alias term/79.default.alm
NAME=voiceconfig-98-ftp-server      flash:/phone/7970-7971/term/71.default.alm alias term/71.default.alm
load 79.8 SCPT/79.8-3-27.alm

```

```
Updating ChRP files:
ChRP files update complete!
ChRP_MyxoConfig-karyotyping@ Host 7871 SCOP75.3-3-25.3.msh
Updating ChRP files:
ChRP files update complete!
```

Source IP Address Information

```

CME_VulnerabilityScanner:telnet-connection
CME_VulnerabilityScanner:telnet-connection:172.16.1.1

```

Generating IP Phone Configuration Files

```

CHKD: Verifying integrity of create and files
CHKD: File creation is already On
Updating CHKD files
CHKD: File update complete

```

Cisco Call Manager Express Guide

**William Frederick Allen, Edwin Stevens
Allen, Andrew J. Burns**



Cisco Call Manager Express Guide:

Implementing Cisco IP Telephony and Video, Part 1 (CIPTV1) Foundation Learning Guide (CCNP Collaboration Exam 300-070 CIPTV1) Akhil Behl, Joshua Samuel Finke, Berni Gardiner, 2016-09-29 Now fully updated for Cisco's new CIPTV1 300-070 exam **Implementing Cisco IP Telephony and Video Part 1 CIPTV1 Foundation Learning Guide** is your Cisco authorized learning tool for CCNP Collaboration preparation Part of the Cisco Press Foundation Learning Series it teaches essential knowledge and skills for building and maintaining a robust and scalable Cisco Collaboration solution The authors focus on deploying the Cisco Unified Communications Manager CUCM CUCM features CUCM based call routing Cisco IOS Voice Gateways Cisco Unified Border Element CUBE and Quality of Service QoS They introduce each key challenge associated with configuring CUCM implementing gateways and CUBE and building dial plans to place on net and off net calls using traditional numbered dial plans and Uniform Resource Identifiers URIs They show how to implement conferencing and other media resources and prepare you to apply QoS features for voice and video Each chapter opens with a topic list that clearly identifies its focus ends with a quick study summary of key concepts and presents review questions to assess and reinforce your understanding The authors present Cisco best practices and illustrate operations and problem solving via realistic examples This guide is ideal for all certification candidates who want to master all the topics covered on the CIPTV1 300-070 exam The official book for Cisco Networking Academy's new CCNP CIPTV1 course includes all new Learning Cisco CIPTV1 e Learning course content Covers CUCM architecture deployment models and tradeoffs Walks through bringing CUCM online deploying endpoints and setting up users Explains how to create a solid IP Phone foundation for advanced services Covers dial plan elements design and implementation Reviews key call routing elements Explains digit manipulation Shows how to control user access Discusses audio video resources and videoconferencing Covers QoS tools and preferential call handling Explains external connections via Cisco IOS Voice Gateways and CUBE Streamlines review with clear summaries assessment questions and objectives *CCNA Voice Study Guide* Andrew Froehlich, 2010-07-01 The ultimate guide to the new CCNA voice network administrator certification exam The new CCNA Voice exam tests candidates on their ability to implement a Cisco VoIP solution Network administrators of voice systems will appreciate that the CCNA Voice Study Guide focuses completely on the information required by the exam Along with hands on labs and an objective map showing where each objective is covered this guide includes a CD with the Sybex Test Engine flashcards and entire book in PDF format The new CCNA Voice certification will be valuable for administrators of voice network systems using Cisco VoIP solutions From Sybex the leading CCNA publisher this guide offers in depth coverage of every exam objective and the technology developed by Cisco for VoIP systems Covers the components of the Cisco Unified Communications Architecture as well as PSTN and VoIP components and technologies Shows how to configure gateways voice ports and dial peers Demonstrates how to configure a Cisco network to support VoIP and implement voicemail CD ROM includes the Sybex Test

Engine flashcards and entire book in PDF format CCNA Voice Study Guide will thoroughly prepare candidates for the new CCNA Voice certification Note CD ROM DVD and other supplementary materials are not included as part of eBook file

CCIE Security V4.0 Practice Labs Natalie Timms,2014 CCIE Security v4 0 Practice Labs The material covered in CCIE Security v4 0 Practice Labs is designed to help candidates prepare for the CCIE Security exam by providing a complex topology and two practice labs that force problem solving troubleshooting and policy design using topics and equipment that are detailed in the official exam documents Each solution is explained in detail to help reinforce a concept and topic Tech Notes present other deployment options or enhancements and provide additional practical implementation tips Initial and Final configuration files that can be cut and pasted onto lab devices for further testing and verification are also included These labs serve as a practice tool for prospective CCIE Security exam candidates and through the use of a real world lab topology and in depth solutions and technical notes are also a useful reference for any security professional involved with practical customer deployments that use Cisco products and solutions *Voip* Milos Ockay Ph D,2018-11-13 The author introduces the essentials of Cisco Call Manager Express Clearly and consistently guides you toward the functional VoIP solution Carefully selected command line interface configuration tasks build the VoIP network with multiple services Configuration tasks are presented in side by side multi protocol SCCP SIP fashion All the configuration tasks are fully solved with instructions hints and with the minimal hardware requirements in mind A hands on approach makes this book an ideal study material for students administrators and networking enthusiasts with at least introductory IT and networking experience The author assumes no specialized background in networking In the first chapter the author explains preliminaries and essentials for those who need it **Cisco A Beginner's Guide, Fifth Edition** Toby Velte,Anthony Velte,2013-09-05 Cisco networking essentials made easy Get a solid foundation in Cisco products and technologies from this fully updated bestseller Covering the latest solutions Cisco A Beginner s Guide Fifth Edition shows you step by step how to design build and manage custom networks Learn how to configure hardware use IOS commands set up wireless networks and secure your systems You ll also get tips on preparing for Cisco certification exams Brand new voice and social networking features Cisco TelePresence the cloud based Cisco Unified Computing System and more are fully covered in this practical resource Understand Cisco networking and Internet basics Connect and configure routers and switches Work with TCP IP Wi Fi and Ethernet technologies Maintain your network through IOS and IOS XR Handle security using firewalls Adaptive Security Appliances SecureX TrustSec and other tools Virtualize hardware and migrate resources to a private cloud Manage wireless networks with Aironet and Airespace Deliver VoIP video and social networking services Design administer and tune a Cisco enterprise network Identify and repair performance issues and bottlenecks Network Security First-step Thomas Thomas,Thomas M. Thomas,Donald Stoddard,2012 Learn about network security including the threats and the ways a network is protected from them The book also covers firewalls viruses and virtual private networks **Packet Guide to**

Voice Over IP Bruce Hartpence, 2013 A system administrator's guide to VoIP technologies Cover CCNP ONT Portable Command Guide Scott Empson, Hans Roth, 2008 Everything a network professional needs to prepare for the CCNP ONT 642 845 exam is contained in this portable resource Filled with easy to access information this book helps professionals gain a better understanding of how commands are used in simple network designs *CVOICE 8.0, with CD* Andrew Froehlich, 2011-11-08 VoIP and convergence are hot topics and the CVOICE 8.0 exam targets candidates looking to pass Exam 642 437 and pursue their CCNP Voice certification Companies continue to add VoIP service at a record pace and network administrators are ramping up their skills This new member of the Sybex Study Guide series covers everything you'll need to know to pass the certification exam VoIP Voice over IP is rapidly becoming a preferred solution for companies and Cisco has responded to the need with a new certification to assure proficiency in VoIP technology Prepares IT professionals for the CVOICE 8.0 exam and includes a CD with the Sybex Test Engine flashcards and the Glossary in PDF format Covers gateway components dial plans basic operation and components of VoIP how to implement a gateway the function and interoperation of gatekeepers how to implement an IP to IP gateway and more Administrators of Cisco VoIP networks will find all the essential tools for CVOICE exam success in CVOICE 8.0 Implementing Cisco Unified Communications Voice over IP and QoS v8.0 Study Guide **Science, theory and practice**, 2021-10-12 Abstracts of IV International Scientific and Practical Conference *CompTIA CTP+ Convergence Technologies Professional Certification Study Guide (Exam CN0-201)* Tom Carpenter, 2011-10-21 The best fully integrated study system available for Exam CN0 201 With hundreds of practice questions and hands on exercises CompTIA CTP Convergence Technologies Professional Certification Study Guide covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for exam CN0 201 Exam Readiness Checklist you're ready for the exam when all objectives on the list are checked off Inside the Exam sections highlight key exam topics covered Two Minute Drills for quick review at the end of every chapter Simulated exam questions match the format tone topics and difficulty of the real exam Covers all the exam topics including Networking Infrastructure and Design Wireless Networks and Real Time Communications Infrastructure Hardware Client Devices Telephony Fundamentals Telephony Hardware Data and Voice Converged Multimedia and Video Understanding Quality of Service Converged Network Management Troubleshooting Security Vulnerabilities Security Solutions CD ROM includes Complete MasterExam practice testing engine featuring One full practice exam Detailed answers with explanations Score Report performance assessment tool One hour of video training PDF copy of the book for studying on the go with free online registration Bonus downloadable MasterExam practice test *CCNA Cisco Certified Network Associate Voice Study Guide (Exams 640-460 & 642-436)* Tom Carpenter, 2010-10-30 The Best Fully Integrated Study System Available for Exams 640 460 Networking from a VoIP Perspective Traditional Telephony They Meet Data and Voice Converged Real Time Streaming Protocol H.323 SIP SCCP and MGCP Understanding Cisco Unified Communications Cisco VoIP Hardware and

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CCNA Voice Official Exam Certification Guide (640-460 IIUC) Jeremy Cioara, Michael J. Cavanaugh, Kris A. Krake, 2008-11-07 Master IIUC 640 460 exam topics with the official study guide Assess your knowledge with chapter opening quizzes Review key concepts with Exam Preparation Tasks CCNA Voice Official Exam Certification Guide is a best of breed Cisco exam study guide that focuses specifically on the objectives for the CCNA Voice IIUC 640 460 exam Senior voice instructors and network engineers Jeremy Cioara Michael Cavanaugh and Kris Krake share preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills Material is presented in a concise manner focusing on increasing your understanding and retention of exam topics CCNA Voice Official Exam Certification Guide presents you with an organized test preparation routine through the use of proven series elements and techniques Do I Know This Already quizzes open each chapter and allow you to decide how much time you need to spend on each section Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks sections help drill you on key concepts you must know thoroughly Well regarded for its level of detail assessment features and challenging review questions and exercises this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time CCNA Voice Official Exam Certification Guide is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining The official study guide helps you master all the topics on the IIUC exam including Connecting IP phones to the LAN infrastructure Cisco Unified CME installation Cisco Unified CME IP phone configuration Cisco Unified CME voice productivity features Gateway and trunk concepts and configuration Cisco Unity Express concepts and configuration Smart Business Communications System Configuring and maintaining the UC500 for voice

CCNA Voice Portable Command Guide Robert M. Cannistra, Michael E. Scheuing, 2013 Preparing for the latest CCNA Voice exam Here are all the CCNA Voice commands you ll need to prepare for the Cisco 640 461 ICOMM v8 0 Exam in one handy condensed resource Filled with valuable easy to access information the CCNA Voice Portable Command Guide is portable enough for you to use whether you re in the server room or the equipment closet This quick reference summarizes all commands keywords command arguments and associated prompts relevant for Exam 640 461 and offers tips and examples for applying these commands in live Cisco Unified Communications environments Topics covered include Fundamentals Unified

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