642-447 CIPT1 v8.0 Topics (Blueprint)

Exam Description

The Implementing Cisco Unified Communications Manager, Part 1 v8.0 (CIPT1 v8.0) 642-447 is the exam associated with the CCNP Voice certification. This exam tests a candidate's skills in installing and configuring a Cisco Unified Communications Manager solution in a single site and focuses primarily on Cisco Unified Communications Manager Release 8.0, the call routing and signaling component for the Cisco Unified Communications solution. Candidates can prepare for this exam by taking the CIPT1 v8.0 Implementing Cisco Unified Communications Manager, Part 1 v8.0 (CIPT1 v8.0) 642-447 course.

Exam Topics

The following information provides general guidelines for the content likely to be included on the 642-447 CIPT1 v8.0 exam. However, other related topics may also appear on any specific delivery of the exam. In order to better reflect the contents of the exam and for clarity purposes the guidelines below may change at any time without notice.

Perform initial set up of a Cisco Unified Communications Manager cluster

- Describe Cisco Unified Communications Manager cluster architecture
- Describe Cisco Unified Communications Manager redundancy designs
- Describe the requirements for Cisco Unified Communications Manager use of DHCP, TFTP, DNS, and NTP
- Determine the services necessary to support a Cisco Unified Communications Manager deployment and activate the appropriate services

Describe and configure Cisco Unified Communications Manager to support oncluster calling

- Configure a Cisco Unified Communications Manager group

- Configure Cisco Unified Communications Manager profiles and device pools
- Configure Cisco Unified Communications Manager templates
- Manage phones and users using Cisco Unified Communications Manager Bulk
- Administration Tool
- Describe the tool for Auto-Registered Phones Support functionality

Describe and configure a route plan for Cisco Unified Communications Manager
to support off-net calling

- Describe Cisco Unified Communications Manager digit analysis
- Implement gateways
- Configure route patterns
- Configure route lists and route groups
- Implement toll-fraud prevention
- Configure digit manipliation
- Describe the functions and usage of calling search spaces and partitions
- Implement calling privileges

Describe and configure Cisco Unified Communications Manager media

- Describe media resources
- Configure MeetMe conferencing and software conferencing resources
- Configure Music on Hold
- Configure Media Resource Groups and Media Resource Group Lists

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Describe and configure the Cisco Unified Communications Manager to support

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- Configure IP phone services
- Configure Cisco Unified Communications Manager native presence features
- Configure Cisco Unified Mobility

• 642-457 CIPT2 v8.0 Topics (Blueprint)

• Duration :

Exam Description

The Implementing Cisco Unified Communications Manager, Part 2 v8.0 (CIPT2 v8.0) 642-457 is the exam associated with the CCNP Voice certification. This exam tests a candidate's skills in implementing a Cisco Unified Communications Manager solution in a multisite environment and applying a dial plan for a multisite environment, configuring survivability for remote sites during WAN failure and implementing solutions to reduce bandwidth requirements in the IP WAN. Candidates can prepare for this exam by taking the CIPT2 v8.0 Implementing Cisco Unified Communications Manager, Part 2 v8.0 (CIPT2 v8.0) 642-457 course.

Exam Topics

The following information provides general guidelines for the content likely to be included on the 642-457 CIPT2 v8.0 exam. However, other related topics may also appear on any specific delivery of the exam. In order to better reflect the contents of the exam and for clarity purposes the guidelines below may change at any time without notice.

Describe and implement centralized call processing redundancy

- Describe device fail over
- Configure call survivability
- Configure Cisco Unified Survivable Remote Site Telephony operation
- Configure Cisco Unified Communications Manager Express to provide redundancy
- Configure MGCP Fallback operation
- Verify redundancy operations

Describe and configure a multi-site dial plan for Cisco Unified Communication
Manager

- Describe the issues with multi-site dial plans
- Describe the differences between the various gateways and trunk types supported by Cisco Unified Communication Manager
- Implement trunks
- Describe globalized call routing
- Implement a numbering plan for multi-site topologies
- Configure tailend hop off

Implement call control discovery and Cisco Inter Company Media Exchange

- Configure Service Advertisement Framework Forwarder
- Configure Service Advertisement Framework Client Control
- Configure Service Advertisement Framework Call Control Discovery

Implement bandwidth management and Call Admission Control

- Configure regions
- Implement transcoders and MTPs
- Configure locations

- Implement RSVP agents
- Implement SIP precondition
- Describe functionality of a gatekeeper
- Implement gatekeeper-based Call Admission Control
- Configure Automated Alternate Routing
- Configure mliti-site Music on Hold

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- Configure multi-site Music on Hold