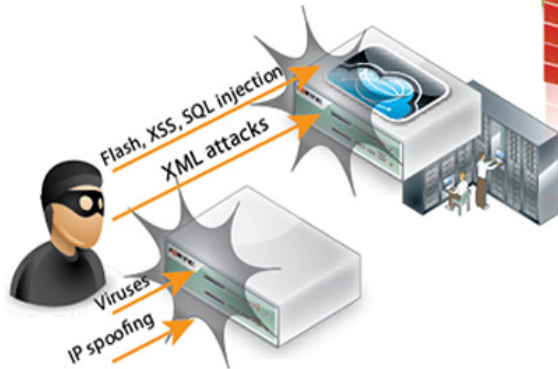




GETTING STARTED **CCNA Security**



Implementing Cisco IP Telephony and Video, Part 1 [300-070 CIPTV1]

Overview: - This exam tests learners for implementing a Cisco Unified Collaboration solution in a single-site environment. The exam focuses primarily on Cisco Unified Communications Manager. Candidates will need to show they can configure Cisco Unified Communications Manager, implement gateways and Cisco Unified Border Element, and build dial plans to place on-net and off-net voice and video calls using traditional numbered dial plans and Uniform Resource Identifiers (URIs). Candidates will also implement media resources, including voice and video conferences, and be able to describe how quality of service ensures that the network provides the required quality to voice and video calls.

Course Content

1.0 Dial Plan

- ✚ 1.1 Describe the components of a dial plan
- ✚ 1.2 Describe path selection (inbound, outbound, on-net and off-net)
- ✚ 1.3 Describe the concept of digit manipulation (regular expressions, translations and transformations)
- ✚ 1.4 Describe CUCM calling privileges, rules, and class of services (such as CSS and partitions)
- ✚ 1.5 Describe VCS calling privileges, rules, class of services (transforms, search rules, and zones)

- ✚ 1.6 Create and document a dial plan
- ✚ 1.7 Modify, analyze, and document a dial plan
- ✚ 1.8 Identify the different types of dial plans (E.164, H323, URI, and DNS, etc) and when to use them
- ✚ 1.9 Describe the interworking between the different types of dial plans
- ✚ 1.10 Test and verify the dial plan
- ✚ 1.11 Configure SIP route patterns

2.0 Describe the Basic Operation and Components Involved in a Call

- ✚ 2.1 Identify and analyze voice/video call flows
- ✚ 2.2 Choose the appropriate codec for a given scenario (G.711, H.264, etc.)

3.0 Configure an IOS Gateway

- ✚ 3.1 Configure digital voice ports
- ✚ 3.2 Configure dial-peers
- ✚ 3.3 Configure digit manipulation
- ✚ 3.4 Configure calling privileges
- ✚ 3.5 Verify dial-plan implementation
- ✚ 3.6 Identify possible functions of the CUBE
- ✚ 3.7 Configure the CUBE relevant to video

4.0 Configure Conferencing Device

- ✚ 4.1 Select the optimal device (single screen MCUs, IOS gateways, TelePresence server)
- ✚ 4.2 Configure the conferencing devices (single screen MCUs, IOS gateways, TelePresence server)
- ✚ 4.3 Configure Cisco TelePresence Conductor
- ✚ 4.4 Describe global conference settings
- ✚ 4.5 Configure MSE 8000 chassis, supervisor blade and media blade

5.0 QoS Model

- ✚ 5.1 Describe the DiffServ QoS mode
- ✚ 5.2 Describe marking based on CoS, DSCP, and IP precedence
- ✚ 5.3 Distinguish where to configure Layer 2 to Layer 3 QoS mapping
- ✚ 5.4 Describe policing and shaping
- ✚ 5.5 Justify the requirement for QoS when implementing video

6.0 Describe and Configure Cisco Unified Communications Manager to Support On-Cluster Calling

- ✚ 6.1 Configure a Cisco Unified Communications Manager group
- ✚ 6.2 Configure Cisco Unified Communications Manager profiles and device pools
- ✚ 6.3 Configure Cisco Unified Communications Manager templates

- ✚ 6.4 Describe and configure a route plan for Cisco Unified Communications Manager to support off-net calling
- ✚ 6.5 Describe Cisco Unified Communications Manager digit analysis
- ✚ 6.6 Configure route patterns (including SIP route patterns)
- ✚ 6.7 Configure route lists and route groups
- ✚ 6.8 Configure digit manipulation

7.0 Configure Media Resources

- ✚ 7.1 Describe and configure the Cisco Unified Communications Manager to support features and applications (such as conference bridges, music on hold, RSVP, transcoders, etc.)
- ✚ 7.2 Configure IP phone services
- ✚ 7.3 Describe and configure Cisco Unified Communications Manager media resources

Contact Us



REXTON IT SOLUTIONS
C-28, Sector 2, Near Nirula Hotel, NoIDA-201301
Tel: 0120-4117766
Cell: +91 9999051150
Email Id: Contact@rextonitsolutions.com
Website: www.Rextonitsolutions.com