

Interconnecting Cisco Networking Devices (CCNA), Part 5 of 5: Network Device Management

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Meet the expert: As a certified Microsoft Instructor, Ken has focused his career on various security aspects of computer and network technology since the early 1980s. He has offered a wide variety of IT training and high level consulting projects for Fortune 500 companies globally. Through the course of his extensive career, he has taught a full line of Microsoft, CompTIA, Cisco, and other high level IT Security curricula.

Prerequisites: This is part 5 of the series

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Course description: The Interconnecting Cisco Networking Devices Part 2 (ICND2) is the exam associated with the Cisco Certified Network Associate certification. The last part in this series covers network device management and protocols. IT will cover SNMP, syslog services, NetFlow and how routers work at the hardware level. It will finish with Cisco devices for small or medium sized environments.

Course outline:

Configure Device Support for Network Protocols

- Introduction
- Overview
- SNMP Versions
- Obtaining Data from an SNMP Agent
- Obtaining Data from an SNMP Agent Continued
- SNMP Configuration
- Syslog Format
- Syslog Configuration
- NetFlow Overview
- NetFlow Overview Continued
- NetFlow Components
- Flow
- NetFlow Architecture
- Demo: Configuring NetFlow
- Configuring NetFlow Continued
- Summary
- Summary

Managing Cisco Devices

- Introduction
- Internal Components of a Router
- What does ROM Do
- Router Bootup Sequence
- Configuration Register
- Changing the Configuration Register
- How the IOS Is Found
- IOS Loading
- IOS Loading Continued

- Loading the IOS Configuration File
- Loading the IOS Configuration File Continued
- Cisco IOS Integrated File System
- Viewing the Integrated System
- Managing IOS Images
- Reading the IOS Filename
- Backing up the Image
- Backing up the Image Continued
- Upgrading the IOS
- Upgrading the IOS Continued
- Copy Command Result
- Managing Device Configuration Files
- Managing Device Configuration Files Continued
- Recovering the Enable Password/Secret
- Recovering the Enable Password/Secret Continued
- Summary
- Summary

Licensing Demo

- Introduction
- Demo: Router Logs
- Demo: Severity Levels
- Demo: Router Secrets
- Demo: Changing a Router Secret
- Demo: Remove Configurations
- Licensing Intro
- Demo: Basic Configuration
- Demo: Create Sub-Interfaces
- Demo: Trunking

- Overview of Licensing
- Overview of Licensing Continued
- Verifying the Licenses
- Summary

Licensing and Superlab Demo Part 1

- Introduction
- Installing a Permanent License
- Installing an Evaluation License
- Back up the License
- Uninstalling the License
- Password Recovery
- Recovery
- Config-Register
- Config-Register Continued
- Universal Images
- Demo: Create Channel Groups
- Demo: Channel Group Verifications
- Demo: Multiple Hosts Per Port
- Demo: DHCP Service
- Demo: Prepare for IPv6 Addresses
- Demo: Assign IPv6 Addresses
- Demo: IPv6 Neighbors
- Summary

Superlab Demo Part 2

- Introduction
- Demo: Configure Serial Links
- Demo: Encapsulation
- Demo: Frame Relay for Links
- Demo: NAT

- Demo: IP Translations
- Demo: Routing Protocols
- Demo: OSPF Interface
- Demo:
- Summary

Superlab Demo Part 3

- Introduction
- Demo: EIGRP
- Demo: EIGRP Continued
- Demo: IPv6 Neighbors
- Demo: Control Server Access
- Demo: Access List
- Demo: Troubleshoot Access List
- Demo: Per-VLAN Spanning Tree
- Summary