Interconnecting Cisco Networking Devices, Part 1 v 3.0 - ICND1 (Entry)

Course Details

Course Outline

1. **Building a Simple Network**
   - Exploring the Functions of Networking
   - Understanding the Host-to-Host Communications Model
   - Introducing LANs
   - Operating Cisco IOS Software
   - Starting a Switch
   - Understanding Ethernet and Switch Operation
   - Troubleshooting Common Switch Media Issues

2. **Establishing Internet Connectivity**
   - Understanding the TCP/IP Internet Layer
   - Understanding IP Addressing and Subnets
   - Understanding the TCP/IP Transport Layer
   - Exploring the Functions of Routing
   - Configuring a Cisco Router
   - Exploring the Packet Delivery Process
   - Enabling Static Routing
   - Learning the Basics of ACL
   - Enabling Internet Connectivity

3. **Summary Challenge**
   - Establish Internet Connectivity
   - Troubleshoot Internet Connectivity

4. **Building a Medium-Sized Network**
   - Implementing VLANs and Trunks
   - Routing Between VLANs
   - Using a Cisco IOS Network Device as a DHCP Server
   - Implementing RIPv2

5. **Network Device Management and Security**

    - Securing Administrative Access

    - Implementing Device Hardening

    - Configuring System Message Logging

    - Managing Cisco Devices

    - Licensing

6. **Summary Challenge**

    - Implementing a Medium-Sized Network

    - Troubleshooting a Medium-Sized Network

7. **Introducing IPv6**

    - Introducing Basic IPv6

    - Understanding IPv6 Operation

    - Configuring IPv6 Static Routes