

Interconnecting Cisco Networking Devices ICND1

Eğitim Tipi: Classroom/AFA

Süre: 5 Day

Eğitim Hakkında

The Interconnecting Cisco Networking Devices, Part 1 (ICND1) v3.0 course provides you with the knowledge and skills that are needed how to install, operate, configure, and verify a basic IPv4 and IPv6 network, including configuring a LAN switch, configuring an IP router, managing network devices, and identifying basic security threats. The course focuses on the functions of networking, knowledge of Cisco routers and switches, establishing internet connectivity, managing ACLs, configuring device security, implementing VLANs and trunks, configuring static routing and RIPv2, and becoming familiar with IPv6. You will also learn how to perform basic troubleshooting steps in enterprise branch office networks, preparing learners for Cisco CCNA certification.

Several topics have been added including; understanding the interactions and network functions of firewalls, wireless controllers and access points, along with additional focus on IPv6 and basic network security.

Please note - the exam is not included in the cost of the course, but is available to book separately.

New Exam: 100-105

Old exam (v2.0) EOL: 100-101 - Aug 20,2016

All configuration commands are introduced through examples and supported with lab exercises. A full suite of labs have been developed using the virtual IOS environment with flexible topologies that reinforce concepts with hands-on, guided discovery and challenge labs that align to each lesson module.

Who should attend

Target candidates: Individuals seeking the Cisco CCENT certification, or Cisco CCNA Routing and Switching certification. The course is also appropriate for support technicians involved in the basic installation, operation, and verification of LAN networks.

Key job tasks:

Configure: Implement the identified solution by applying the planned implementation processes using Cisco IOS commands and applications in the correct order to the selected devices and portions of the network.

Verify: Use the appropriate show commands and applications to ensure that the solution was correctly implemented and is performing as desired.

Job roles: Entry-level network engineer, network administrator, network support technician, and help desk technician

Certifications This course is part of the following Certifications:

- Cisco Certified Entry Networking Technician (CCENT)
- Cisco Certified Network Associate Routing and Switching (CCNA)

Önkoşullar

The knowledge and skills that a learner must have before attending this course are as follows:

- Basic computer literacy
- Basic PC operating system navigation skills
- Basic Internet usage skills
- Basic IP address knowledge

Neler Öğreneceksiniz

By the end of the course, you will be able to:

- Describe network fundamentals and build simple LANs
- Establish Internet connectivity
- Manage network device security
- Expand small to medium sized networks with WAN connectivity
- Describe IPv6 basics

Eğitim İçeriği

Module 1: Building a Simple Network

Lesson 1: Exploring the Functions of Networking

Lesson 2: Understanding the Host-to-Host Communications Model

Lesson 3: Introducing LANs

Lesson 4: Operating Cisco IOS Software

Lesson 5: Starting a Switch

Lesson 6: Understanding Ethernet and Switch Operation

Lesson 7: Troubleshooting Common Switch Media Issues

Module 2: Establishing Internet Connectivity

Lesson 1: Understanding the TCP/IP Internet Layer

Lesson 2: Understanding IP Addressing and Subnets

Lesson 3: Understanding the TCP/IP Transport Layer

Lesson 4: Exploring the Functions of Routing

Lesson 5: Configuring a Cisco Router

Lesson 6: Exploring the Packet Delivery Process

Lesson 7: Enabling Static Routing

Lesson 8: Learning the Basics of ACL

Lesson 9: Enabling Internet Connectivity

Module 3: Summary Challenge

Establish Internet Connectivity

Troubleshoot Internet Connectivity

Module 4: Building a Medium-Sized Network

Lesson 1: Implementing VLANs and Trunks

Lesson 2: Routing Between VLANs

Lesson 3: Using a Cisco IOS Network Device as a DHCP Server

Lesson 4: Implementing RIPv2

Module 5: Network Device Management and Security

Lesson 1: Securing Administrative Access

Lesson 2: Implementing Device Hardening

Lesson 3: Configuring System Message Logging

Lesson 4: Managing Cisco Devices

Lesson 5: Licensing

Module 6: Summary Challenge

Lesson 1: Implementing a Medium-Sized Network

Lesson 2: Troubleshooting a Medium-Sized Network

Module 7: Introducing IPv6

Lesson 1: Introducing Basic IPv6

Lesson 2: Understanding IPv6 Operation

Lesson 3: Configuring IPv6 Static Routing