

Interconnecting Cisco Network Devices 2 CI-ICND2

Durata: 5 giorni

Partendo dai concetti fondamentali del corso ICND1 (Interconnecting Cisco Network Devices 1), questo corso fornisce un fondamento tecnico per il resto del curriculum Authorized Cisco. Se il tuo obiettivo è familiarizzare con la tecnologia Cisco o cominciare un percorso Cisco Certified Internetworking Expert, ICND1 e ICND2 sono i corsi base per iniziare.

Il corso è raccomandato per il conseguimento della certificazione Cisco Certified Network Associate (CCNA).

Cosa si impara

Come configurare e analizzare guasti di switch e router in un piccolo ambiente network

Espandere switched network da un piccolo a un medio ambiente network

Problemi di ridondanza switching

Spanning Tree

Concetti di VLANs e trunking

Implementare VLSM

Configurare, verificare, e analizzare guasti OSPF

Configurare, verificare, e analizzare guasti EIGRP

Determinare quando usare le liste di controllo di accesso (ACLs)

Configurare, verificare, e analizzare guasti ACLs
Configurare NAT e PAT

IPv6 addressing

Configurare PPP, CHAP, e PAP

Frame Relay operation

Soluzioni VPN

Chi dovrebbe partecipare

ICND2 è indicato per coloro che hanno un basso background in data networking, hanno qualche esperienza pratica con routers e switches Cisco, e cercano di incrementare le loro conoscenze di installazione, implementazione, mantenimento e risoluzione dei problemi di reti switch e router di medie dimensioni, o per coloro che vogliono certificarsi CCNA. Si raccomanda l'aver già seguito il corso ICND1.

Contenuti

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| <p>1. Small Network Implementation
Review Lab: Review of a Small Network Environment</p> | <p>3. Medium-Sized Routed Network
Construction
Reviewing Routing Operations
Implementing VLSM</p> |
| <p>2. Medium-Sized Switched Network
Construction
Implementing VLANs and Trunks
Improving Performance with Spanning Tree
Routing Between VLANs
Securing the Expanded Network
Troubleshooting Switched Networks</p> | <p>4. Single Area OSPF Implementation
Implementing OSPF
Troubleshooting OSPF</p> |
| | <p>5. EIGRP Implementation
Implementing EIGRP
Troubleshooting EIGRP</p> |

6. Access Control Lists (ACLs)

ACL Operation
Configuring and Troubleshooting ACLs

7. Address Space Management

Scaling the Network with NAT and PAT
Transitioning to IPv6

8. LAN Extension into a WAN

Establishing a Point-to-Point WAN

Connection with PPP

Establishing a WAN Connection with Frame Relay

Troubleshooting Frame Relay WANs

Introducing VPN Solutions

Laboratori

L1. Lab 1: Implementing a Small Network (Review Lab)

Using the skills that you acquired or learned in the ICND1 course, configure your workgroup switch and router with a basic configuration based on the network information provided.

L2. Lab 2: Configuring Expanded Switch Networks

Expand the switch configuration to meet specific VLAN and network requirements.

L3. Lab 3: Troubleshooting Switched Networks

Utilize troubleshooting methods discussed to gather symptoms, isolate problems, and correct the problems commonly found in a switched network.

L4. Lab 4: Implementing OSPF

Configure your workgroup routers to use the dynamic routing protocol OSPF.

L5. Lab 5: Troubleshooting OSPF

Utilize troubleshooting methods discussed to gather symptoms, isolate problems, and correct the problems commonly found when running the OSPF routing protocol.

L6. Lab 6: Implementing EIGRP

Configure your workgroup routers to migrate from OSPF to EIGRP.

L7. Lab 7: Troubleshooting EIGRP

Utilize troubleshooting methods discussed to gather symptoms, isolate problems, and correct the problems commonly found when running the EIGRP routing protocol.

L8. Lab 8: Implementing and Troubleshooting Access Control Lists (ACLs)

Create and troubleshoot IP ACLs.

L9. Lab 9: Configuring NAT and Port Address Translation (PAT)

Configure your workgroup router to use PAT.

L10. Lab 10: Implementing IPv6

Allocate and configure IPv6 addresses on your workgroup routers.

L11. Lab 11: Establishing a Frame Relay WAN

Using the serial interface, create a Frame Relay connection to the Core.

L12. Lab 12: Troubleshooting Frame Relay WANs

Utilize troubleshooting methods discussed to gather symptoms, isolate problems, and correct the problems commonly found in a Frame Relay network.

Prerequisiti

ICND1 (Interconnecting Cisco Network Devices 1)

Esami/Certificazioni

Questo corso è parte dei programmi per le seguenti certificazioni:

- **CCDP (Cisco Certified Design Professional)**
- **CCNA (Cisco Certified Network Associate)**
- **CCNP (Cisco Certified Network Professional)**
- **CCDA (Cisco Certified Design Associate)**
- **CCSP (Cisco Certified Security Professional)**