

Cisco Networking Academy®, Constanta, Romania



CCNA Routing and Switching v6.X®: Connecting Networks

Description:

Discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students also develop the knowledge and skills needed to implement IPsec and virtual private network (VPN) operations in a complex network

Skills and Competencies

Here are some examples of tasks students will be able to perform after completing each course:

- Describe the operations and benefits of virtual private networks (VPNs) and tunneling
- Describe different WAN technologies and their benefits
- Configure and troubleshoot serial connections
- Configure and troubleshoot broadband connections
- Configure and troubleshoot IPsec tunneling operations
- Monitor and troubleshoot network operations using syslog, SNMP, and NetFlow
- Design network architectures for borderless networks, data centers, and collaboration

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- 1.1 WAN Technologies Overview
- 1.2 Selecting a WAN Technology
- 1.3 Summary

Chapter 2: Point-to-Point Connections

- 2.0 Introduction
- 2.1 Serial Point-to-Point Overview
- 2.2 PPP Operation
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- 2.4 Troubleshooting PPP
- 2.5 Summary

Chapter 3: Branch Connections

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- 3.1 Remote Access Connections
- 3.2 PPPoE
- 3.3 VPNs
- 3.4 GRE
- 3.5 eBGP
- 3.6 Summary

Chapter 4: Access Control Lists

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- 4.1 Standard ACL Operation and Configuration Review
- 4.2 Extended IPv4 ACLs
- 4.3 IPv6 ACLs
- 4.4 Troubleshoot ACLs
- 4.5 Summary

Chapter 5: Network Security and Monitoring

- 5.0 Introduction
- 5.1 LAN Security
- 5.2 SNMP
- 5.3 Cisco Switch Port Analyzer (SPAN)
- 5.4 Summary

Chapter 6: Quality of Service

- 6.0 Introduction
- 6.1 QoS Overview
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Chapter 7: Network Evolution

7.0 Introduction

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7.2 Cloud and Virtualization

7.3 Network Programming

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Chapter 8: Network Troubleshooting

8.0 Introduction

8.1 Troubleshooting Methodology

8.2 Troubleshooting Scenarios

8.3 Summary

Contact: [Foundation for promoting Information and Communication Technology \(ICT Foundation\)](#)
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