

Days: 5

Prerequisites: Before attending this course, you should have basic computer literacy, basic PC operating system navigation skills, basic Internet usage skills, and basic knowledge of IP addresses.

Audience: This course is designed for entry-level professionals in networking roles such as: Entry-level Network Engineers, Entry-level Network Administrators, Entry-level Network Support Technicians, Entry-level Help Desk Technicians

Description: CCNA 200-301 Official Cert Guide, Volume 2 builds on the foundational knowledge from Volume 1, introducing more advanced networking concepts such as wireless LANs, security architectures, network automation, and programmability. This volume is essential for preparing students for the CCNA 200-301 v1.1 certification exam and focuses on real-world applications, particularly in areas like cloud and automation technologies.

Course Objectives

In this course, you will:

- Configure wireless networks and security features
- Implement IP Access Control Lists (ACLs)
- Understand DHCP, NAT, QoS, and security services
- Explore LAN, WAN, and cloud architectures
- Configure controller-based networking and network automation
- Understand network programmability tools such as Ansible and Terraform

OUTLINE:

PART I: INTRODUCTION TO NETWORKING

- Chapter 1: Introduction to TCP/IP Networking
- Chapter 2: Fundamentals of Ethernet LANs
- Chapter 3: Fundamentals of WANs and IP Routing
- Part I Review

PART I: WIRELESS LANS

- Chapter 1: Fundamentals of Wireless Networks
- Chapter 2: Analyzing Cisco Wireless Architectures
- Chapter 3: Securing Wireless Networks
- Chapter 4: Building a Wireless LAN
- Part I Review

PART II: IP ACCESS CONTROL LISTS (ACLs)

- Chapter 5: Introduction to TCP/IP Transport and Applications
- Chapter 6: Basic IPv4 Access Control Lists
- Chapter 7: Named and Extended IP ACLs
- Chapter 8: Applied IP ACLs
- Part II Review

PART III: SECURITY SERVICES

- Chapter 9: Security Architectures
- Chapter 10: Securing Network Devices
- Chapter 11: Implementing Switch Port Security
- Chapter 12: DHCP Snooping and ARP Inspection

CCNA 200-301: Volume 2

- Part III Review

PART IV: IP SERVICES

- Chapter 13: Device Management Protocols
- Chapter 14: Network Address Translation
- Chapter 15: Quality of Service (QoS)
- Chapter 16: First Hop Redundancy Protocols
- Chapter 17: SNMP, FTP, and TFTP
- Part IV Review

PART V: NETWORK ARCHITECTURE

- Chapter 18: LAN Architecture
- Chapter 19: WAN Architecture
- Chapter 20: Cloud Architecture
- Part V Review

PART VI: NETWORK AUTOMATION

- Chapter 21: Introduction to Controller-Based Networking
- Chapter 22: Cisco Software-Defined Access (Cisco SD-Access)
- Chapter 23: Understanding REST and JSON
- Chapter 24: Understanding Ansible and Terraform
- Part VI Review

PART VII EXAM UPDATES AND FINAL REVIEW

- Chapter 25 CCNA 200-301 Official Cert Guide, Volume 2, Second Edition, Exam Updates
- Chapter 26 Final Review

APPENDIX

- Appendix A: Numeric Reference Tables
- Appendix B: Exam Topics Cross-Reference
- Appendix C: Answers to "Do I Know This Already?" Quizzes

GLOSSARY