

# cisco ccnp routing and switching

Cisco CCNP Routing and Switching: Mastering the Backbone of Modern Networks

**cisco ccnp routing and switching** is a pivotal certification for networking professionals aiming to deepen their expertise in managing and optimizing enterprise networks. Whether you're an IT enthusiast or a seasoned network engineer, understanding Cisco's Certified Network Professional (CCNP) in routing and switching can open doors to advanced career opportunities and technical mastery. This certification covers the essential skills required to plan, implement, verify, and troubleshoot local and wide-area enterprise networks, making it a cornerstone for those working with Cisco technologies.

## What is Cisco CCNP Routing and Switching?

At its core, Cisco CCNP Routing and Switching is a professional-level certification designed to validate an individual's ability to manage complex network solutions. It builds upon the foundational knowledge gained in the Cisco Certified Network Associate (CCNA) certification and pushes candidates to a higher level of proficiency. The focus lies heavily on routing protocols, switching technologies, and troubleshooting techniques in enterprise environments.

This certification traditionally involved passing multiple exams that cover different aspects of routing and switching, including advanced IP addressing, VLANs, WAN technologies, network security, and quality of service (QoS). However, Cisco has evolved its certification paths, and while the CCNP Routing and Switching track has been integrated into the broader CCNP Enterprise certification, the core principles remain highly relevant.

## Why Cisco CCNP Routing and Switching Matters

Networking forms the backbone of today's digital world, and Cisco has long been a dominant player in this space. The CCNP Routing and Switching certification is highly regarded because it confirms that a professional can:

- Design scalable and resilient enterprise networks
- Configure and troubleshoot advanced routing protocols such as OSPF, EIGRP, and BGP
- Implement VLANs and inter-VLAN routing effectively
- Manage WAN technologies including VPNs and MPLS
- Apply network security and QoS to enhance performance and reliability

For network engineers, mastering these skills means they can ensure networks operate smoothly, efficiently, and securely. This is invaluable in environments where network downtime can have significant business impacts.

## Core Topics Covered in CCNP Routing and Switching

### Advanced Routing Protocols

Routing is fundamental to directing traffic across networks. Cisco CCNP Routing and Switching dives deep into dynamic routing protocols such as:

- **OSPF (Open Shortest Path First):** A link-state protocol used widely in enterprise networks that requires a solid understanding of area design and route summarization.
- **EIGRP (Enhanced Interior Gateway Routing Protocol):** Cisco's proprietary protocol known for fast convergence and ease of configuration.
- **BGP (Border Gateway Protocol):** Essential for managing routing between different organizations or across the internet.

Understanding these protocols allows engineers to design networks that are both efficient and fault-tolerant.

### Switching Technologies and VLANs

Switching forms the foundation of local area networks (LANs). The certification emphasizes:

- **VLAN Configuration:** Segmentation of networks to improve performance and security.
- **Inter-VLAN Routing:** Allowing communication between VLANs using Layer 3 switches or routers.
- **Spanning Tree Protocol (STP):** Preventing loops in Ethernet networks to maintain a stable topology.
- **EtherChannel:** Aggregating multiple physical links into a single logical connection for redundancy and increased bandwidth.

Mastering these concepts ensures network engineers can create flexible and scalable LAN environments.

### Network Security and QoS

Security and quality of service are critical in enterprise networks. Cisco CCNP covers:

- **Access Control Lists (ACLs):** Filtering traffic to enforce policies.
- **VPN Technologies:** Securing remote connections.
- **QoS Mechanisms:** Prioritizing critical traffic such as voice and video to guarantee performance.

These topics prepare candidates to maintain robust, secure networks that meet business requirements.

## Preparing for the Cisco CCNP Routing and Switching Exams

Studying for Cisco CCNP Routing and Switching requires a strategic approach given the depth and breadth of the content. Here are some tips to help you prepare effectively:

- **Hands-on Practice:** Set up a home lab or use network simulators like Cisco Packet Tracer or GNS3. Practical experience is invaluable for understanding real-world scenarios.
- **Study Resources:** Utilize Cisco's official study guides, video tutorials, and online courses from trusted platforms to build a solid theoretical foundation.
- **Understand Exam Topics:** Review the detailed exam blueprints provided by Cisco to ensure you cover every necessary area.
- **Join Study Groups:** Engaging with peers through forums or study groups can provide support, explanations, and motivation.
- **Practice Exams:** Take practice tests to gauge your readiness and identify knowledge gaps.

By combining theory with hands-on practice, candidates can confidently approach the exams and demonstrate their expertise.

## Real-World Applications of Cisco CCNP Routing and Switching Skills

The knowledge gained through Cisco CCNP Routing and Switching is highly practical and in demand. Network engineers use these skills to:

- Design and implement enterprise-level LAN and WAN infrastructures.

- Troubleshoot complex network issues, minimizing downtime and ensuring business continuity.
- Optimize network performance through proper configuration and tuning.
- Secure networks against unauthorized access and attacks.
- Support emerging technologies like software-defined networking (SDN) by understanding underlying network infrastructure.

Many organizations rely on Cisco-certified professionals to manage their critical IT infrastructure, making the CCNP an investment in a resilient and rewarding career.

## Transitioning Beyond CCNP Routing and Switching

With Cisco's evolving certification program, the traditional CCNP Routing and Switching has merged into the broader CCNP Enterprise track. However, the foundational concepts remain vital. Professionals can further enhance their skill set by exploring:

- **CCIE Enterprise Infrastructure:** The expert-level certification focusing on advanced networking concepts.
- **Cisco DevNet Certifications:** For those interested in network automation and programmability.
- **Specialized Certifications:** Such as Cisco Security or Wireless certifications, which complement routing and switching knowledge.

Continuous learning ensures network professionals stay current with technological trends and maintain their competitive edge.

Exploring Cisco CCNP Routing and Switching offers much more than just a certification badge—it provides practical, hands-on skills crucial for today's network-driven world. Whether you're troubleshooting routing issues or designing a scalable enterprise network, the principles and expertise gained here form the foundation of a successful networking career.

## Frequently Asked Questions

### What is Cisco CCNP Routing and Switching certification?

Cisco CCNP Routing and Switching is a professional-level certification that validates advanced knowledge and skills in planning, implementing, verifying, and troubleshooting local and wide-area enterprise networks.

### What are the core topics covered in the CCNP Routing

## **and Switching exams?**

Core topics include advanced routing protocols (OSPF, EIGRP, BGP), VLANs and trunking, switching concepts, network troubleshooting, and implementing and verifying WAN technologies.

## **Which exams are required to earn the CCNP Routing and Switching certification?**

Candidates must pass two exams: a core exam (Implementing and Operating Cisco Enterprise Network Core Technologies - ENCOR 350-401) and a concentration exam focusing on routing, switching, or troubleshooting.

## **How does CCNP Routing and Switching differ from CCNA?**

CCNA covers foundational networking concepts, while CCNP Routing and Switching focuses on more advanced and in-depth networking skills, including complex routing and switching configurations and troubleshooting.

## **What practical skills does CCNP Routing and Switching emphasize?**

The certification emphasizes practical skills such as configuring and troubleshooting complex network infrastructures, implementing enterprise routing and switching solutions, and managing scalable networks.

## **Is hands-on experience necessary for passing the CCNP Routing and Switching exams?**

Yes, practical hands-on experience with Cisco routers and switches is highly recommended to understand real-world network scenarios and configurations.

## **What are the career benefits of obtaining a CCNP Routing and Switching certification?**

Benefits include higher earning potential, validation of advanced networking skills, eligibility for senior network engineer roles, and increased job opportunities in enterprise networking.

## **How often does Cisco update the CCNP Routing and Switching certification exams?**

Cisco typically updates their certification exams every few years to reflect new technologies and industry trends, so staying current with Cisco's official website is important.

# Can the CCNP Routing and Switching certification help with cloud networking skills?

While CCNP Routing and Switching focuses on on-premises networks, the core networking knowledge gained is foundational and transferable to cloud networking environments.

## What resources are recommended for preparing for the CCNP Routing and Switching exams?

Recommended resources include Cisco's official study guides, Cisco Learning Network, hands-on labs, online courses, and practice exams.

## Additional Resources

Cisco CCNP Routing and Switching: A Professional Examination of Its Role in Modern Networking

**cisco ccnp routing and switching** remains a pivotal certification for networking professionals seeking to deepen their expertise in enterprise-level network infrastructure. As Cisco's career certification track evolves, the CCNP Routing and Switching credential has historically represented a benchmark for those aiming to master routing protocols, switching technologies, and complex network architectures. This article delves into the significance, structure, and practical implications of the Cisco CCNP Routing and Switching certification, exploring its relevance in today's dynamic networking landscape.

## Understanding Cisco CCNP Routing and Switching

Cisco Certified Network Professional (CCNP) Routing and Switching is a mid-tier professional certification designed to validate an individual's ability to plan, implement, verify, and troubleshoot local and wide-area enterprise networks. Covering advanced routing and switching concepts, it builds upon foundational knowledge established in the Cisco Certified Network Associate (CCNA) certification. The certification is recognized globally and often regarded as a critical step for network engineers, administrators, and architects who focus on enterprise network solutions.

The curriculum encompasses a range of topics, including advanced IP addressing, network security, VLANs, routing protocols such as OSPF and EIGRP, and troubleshooting methodologies. These components collectively equip professionals to handle the complexities of modern enterprise networks, which demand high availability, scalability, and security.

# The Evolution of CCNP Routing and Switching

While Cisco's certification tracks have undergone restructuring, the CCNP Routing and Switching was traditionally structured around three core exams:

1. **ROUTE:** Focused on advanced routing technologies, including OSPF, EIGRP, BGP, and IPv6 routing.
2. **SWITCH:** Concentrated on Layer 2 and Layer 3 switching technologies, spanning VLANs, STP, EtherChannel, and high-availability concepts.
3. **TSHOOT:** Dedicated to network troubleshooting and maintenance in complex routing and switching environments.

This tripartite exam structure allowed candidates to demonstrate proficiency in discrete but interrelated areas of networking, ensuring a well-rounded skill set. However, Cisco's shift to role-based certifications in recent years has led to newer pathways, integrating routing and switching knowledge into broader enterprise-focused certifications.

## Key Components and Skills Validated by Cisco CCNP Routing and Switching

The technical competencies tested through CCNP Routing and Switching align closely with the requirements of enterprise network operations. Professionals certified under this track are expected to:

- **Design and implement scalable routing solutions:** Expertise in dynamic routing protocols such as OSPF, EIGRP, and BGP enables efficient network traffic management across diverse environments.
- **Configure complex switching infrastructures:** Mastery over VLANs, inter-VLAN routing, Spanning Tree Protocol (STP), and EtherChannel is essential for network segmentation and redundancy.
- **Diagnose and remediate network issues:** The ability to troubleshoot network anomalies, analyze packet flows, and use Cisco IOS tools is critical for maintaining network uptime.
- **Manage IP addressing and subnetting:** Advanced skills in IPv4 and IPv6 addressing schemes underpin effective network design and resource allocation.
- **Implement security measures:** While not a primary focus, CCNP Routing and Switching candidates must understand access control lists (ACLs) and basic security mechanisms relevant to routing and switching.

These competencies mirror the demands of real-world enterprise networks, where multi-vendor environments and evolving technologies require adaptable and certified professionals.

## Comparing CCNP Routing and Switching with Other Cisco Certifications

In the broader Cisco certification ecosystem, CCNP Routing and Switching situates itself between foundational certifications like CCNA and the more specialized or advanced tracks such as CCIE (Cisco Certified Internetwork Expert). Compared to CCNA, the CCNP certification dives deeper into network protocols and troubleshooting, requiring a more nuanced understanding of network behavior under various configurations.

When juxtaposed with the CCIE certification, CCNP offers a more accessible yet comprehensive skill set tailored for day-to-day operational roles rather than expert-level design and architecture. This distinction is crucial for professionals targeting roles such as network engineers, senior administrators, or consultants who implement and manage enterprise network solutions.

Moreover, Cisco's recent transition to role-based certifications, such as the CCNP Enterprise, integrates routing and switching knowledge but within a more holistic framework that includes automation, programmability, and wireless technologies. This evolution reflects the industry's shift toward software-defined networking (SDN) and network automation.

## Practical Implications and Industry Relevance

The value of Cisco CCNP Routing and Switching extends beyond theoretical knowledge; it directly influences career trajectories and organizational network performance. Certified professionals bring standardized skills that enable:

- **Improved network reliability:** By applying rigorous configuration and troubleshooting methods, certified engineers reduce downtime and enhance service quality.
- **Optimized network performance:** Expertise in routing protocols and switching architectures ensures efficient traffic flow and resource utilization.
- **Security adherence:** While primarily focused on routing and switching, the certification encourages awareness of network security best practices within the enterprise context.
- **Vendor credibility and trust:** Cisco certifications carry significant weight in the IT industry, often influencing hiring decisions and project allocations.

Organizations deploying Cisco infrastructure benefit from having CCNP-certified personnel who understand the nuances of Cisco IOS, hardware configurations, and troubleshooting tools. This alignment reduces the learning curve and accelerates response times during network incidents.

## Challenges and Considerations

Despite its advantages, the Cisco CCNP Routing and Switching certification poses certain challenges. The depth of technical content demands substantial preparation time and hands-on experience. Candidates often report that the troubleshooting component requires not only theoretical knowledge but also practical exposure to diverse network scenarios.

Additionally, the evolving nature of Cisco's certification paths means that professionals must stay current with changes to maintain relevance. The shift from separate routing and switching exams to integrated certifications may cause some confusion among candidates planning their certification roadmap.

The cost of exams and associated preparation materials can also be a barrier for some individuals, especially those without employer sponsorship. However, the return on investment often justifies the expense due to enhanced employment opportunities and salary potential.

## Preparing for Cisco CCNP Routing and Switching Certification

Effective preparation for the Cisco CCNP Routing and Switching exams involves a combination of structured learning, practical labs, and real-world experience. Recommended approaches include:

- **Official Cisco Training:** Cisco offers instructor-led courses and e-learning modules that cover the required topics comprehensively.
- **Hands-On Labs:** Utilizing Cisco Packet Tracer, GNS3, or physical lab equipment to simulate routing and switching environments is critical for mastering configuration and troubleshooting.
- **Study Guides and Exam Blueprints:** Detailed guides aligned with exam objectives provide a roadmap for targeted study.
- **Practice Exams:** Taking mock tests helps identify knowledge gaps and build exam confidence.

Networking professionals are encouraged to engage with community forums and study groups, which can offer insights into exam experiences and evolving best practices.

## The Future of Routing and Switching Certifications

Looking ahead, the principles underlying Cisco CCNP Routing and Switching continue to underpin network engineering roles, even as cloud computing, automation, and virtualization reshape the industry. Cisco's introduction of certifications emphasizing programmability and software-defined networking reflects this trend, yet the foundational knowledge of routing and switching remains indispensable.

Networking professionals with CCNP Routing and Switching expertise are well-positioned to adapt to hybrid environments where traditional network infrastructure coexists with emerging technologies. Their ability to troubleshoot complex network topologies and optimize performance ensures they remain vital contributors to enterprise IT teams.

In essence, while the certification landscape evolves, the core competencies validated by Cisco CCNP Routing and Switching persist as essential pillars for network professionals navigating the complexities of modern enterprise networks.

## [Cisco Ccnp Routing And Switching](#)

**cisco ccnp routing and switching: CCNP Routing and Switching SWITCH 300-115 Official Cert Guide** David Hucaby, 2014-11-14 Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Cisco CCNP SWITCH 300-115 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Routing and Switching SWITCH 300-115 Official Cert Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNP Routing and Switching SWITCH 300-115 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Expert engineer David Hucaby shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete, official study package includes A test-preparation routine proven to help you pass the exam Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section Chapter-ending exercises, which help you drill on key concepts you must know thoroughly The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports More than 60 minutes of personal video mentoring from the author on important exam topics A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCNP Routing and Switching SWITCH 300-115 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from

authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com](http://www.cisco.com). The official study guide helps you master topics on the CCNP R&S SWITCH 300-115 exam, including: Enterprise campus design Switch operation Switch port configuration VLANs, Trunks, and VLAN Trunking Protocol (VTP) Spanning Tree Protocol (STP), RSTP, and MSTP Protecting the STP topology Aggregating switch links Multilayer switching Configuring DHCP Logging switch activity and managing switches with SNMP Monitoring performance and traffic High availability Securing switched networks

**cisco ccnp routing and switching:** *CCNP Routing and Switching Quick Reference (642-902, 642-813, 642-832)* Denise Donohue, Brent Stewart, 2010-01-25 As a final preparation tool providing a review of CCNP exam topics, the CCNP Quick Reference 2/e complements official Cisco curriculum, other books, or other exam preparatory material in a candidates preparation for the four CCNP exams. This concise guide provides you with detailed, graphical-based information, highlighting only the key topics on the latest CCNP exams in a review-style format. This fact-filled Quick Reference allows you to get all-important information at a glance, helping you to focus your study on areas of weakness and to enhance memory retention of important concepts. This book provides a comprehensive final review for candidates taking any of the CCNP exams. It steps through exam objectives one-by-one, providing concise and accurate review for all topics. Using this book, you will be able to easily and effectively review test objectives without having to wade through numerous books and documents for relevant content for final review.

**cisco ccnp routing and switching: CCNP Routing and Switching ROUTE 300-101 Official Cert Guide** Kevin Wallace, 2014-11-03 Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. --Master Cisco CCNP ROUTE 300-101 exam topics --Assess your knowledge with chapter-opening quizzes --Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Routing and Switching ROUTE 300-101 Official Cert Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNP Routing and Switching ROUTE 300-101 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Expert instructor and best-selling author Kevin Wallace shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete, official study package includes --A test-preparation routine proven to help you pass the exam --Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section --Chapter-ending exercises, which help you drill on key concepts you must know thoroughly --The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports --More than 60 minutes of personal video mentoring from the author on important exam topics --A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies --Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCNP Routing and Switching ROUTE 300-101 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com](http://www.cisco.com). The official study guide helps you master topics on the CCNP R&S ROUTE 300-101 exam, including --Routing protocol characteristics and virtual routers --Remote site connectivity --IPv6 routing and RIPng --EIGRP, OSPFv2, and OSPFv3 --IGP redistribution and route selection --eBGP and iBGP --IPv6 Internet connectivity --Router security --Routing protocol authentication

## **cisco ccnp routing and switching: CCNP Routing and Switching TSHOOT 300-135**

**Official Cert Guide** Raymond Lacoste, Kevin Wallace, 2014-11-07 Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Cisco CCNP TSHOOT 300-135 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Routing and Switching TSHOOT 300-135 Official Cert Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNP Routing and Switching TSHOOT 300-115 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Expert instructor Raymond Lacoste shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete, official study package includes A test-preparation routine proven to help you pass the exam Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section Chapter-ending exercises, which help you drill on key concepts you must know thoroughly A trouble ticket chapter that explores 10 additional network failures and the approaches you can take to resolve the issues presented A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCNP Routing and Switching TSHOOT 300-115 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com](http://www.cisco.com). The official study guide helps you master topics on the CCNP R&S TSHOOT 300-135 exam, including how to troubleshoot: Device performance VLANs, Trunks, and VTP STP and Layer 2 Etherchannel Inter-VLAN routing and Layer 3 Etherchannel Switch security HSRP, VRRP, GLBP IPv4 and IPv6 addressing IPv4/IPv6 routing and GRE tunnels RIPv2, RIPng, EIGRP, and OSPF Route maps, policy-based routing, and route redistribution BGP Management protocols, tools, and access

## **cisco ccnp routing and switching: CCNP Routing and Switching Official Certification Library**

Wendell Odom, David Hucaby, Kevin Wallace, 2010-02-23 Master CCNP exam topics with the official study guides Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions on the CD-ROMs CCNP Routing and Switching Official Certification Library is a comprehensive review and practice package for the three CCNP Routing and Switching exams: ROUTE, SWITCH, and TSHOOT. The three books contained in this package, CCNP ROUTE 642-902 Official Certification Guide, CCNP SWITCH 642-813 Official Certification Guide, and CCNP TSHOOT 642-832 Official Certification Guide, present complete reviews and ample opportunity to test your knowledge of CCNP Routing and Switching exam topics. These authorized CCNP Routing and Switching study guides are written by CCIE certified experts, bringing years of teaching and consulting experience together in an ideal test preparation format. CCNP ROUTE 642-902 Official Certification Guide teaches you how to use advanced IP addressing and routing to implement enterprise-level router networks connected to LANs and WANs. CCNP SWITCH 642-813 Official Certification Guide ensures that you have the skills necessary to implement scalable, multilayer switched networks. CCNP TSHOOT 642-832 Official Certification Guide helps you master the troubleshooting methodologies, tools, and tasks needed to effectively monitor and maintain large enterprise networks. Each of these official study guides provides you with an organized test preparation routine through the use of proven series elements and techniques. Do I Know This Already? quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy.

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**cisco ccnp routing and switching: CCNP Routing and Switching SWITCH 300-115 Lab Workbook** Mohamed Ouamer, 2019-04-04 Do you want to pass the CCNP Routing and Switching SWITCH certification exam? Do you want to master the subjects in the test blueprint? Do you want to become a successful Cisco network engineer? Then the CCNP SWITCH Lab workbook is your companion that will help you make your hands-on skills perfect and pass the SWITCH 300-115 exam. This lab manual was developed to help you: Understand almost every subject and Cisco IOS command in the exam syllabus. Develop and improve your hands-on configuration and troubleshooting skills. Pass the Cisco CCNP RS SWITCH 300-115 exam. Finally, this book is not that type of documents that teach you IOS commands. However, using this lab manual, you will find yourself analyzing, configuring, testing and troubleshooting in almost every lab you do. In this way, you deepen your knowledge and build up the level of hands-on experience to pass the 300-115 exam and success as a network engineer. Develop and Improve Your Hands-on Configuration and Troubleshooting Skills You do not need to invest thousands of dollars in a CCNP class to gain the same outstanding hands-on experience and high-quality knowledge provided in this lab manual. Besides, the workbook allows you to practice all networking commands related to the exam blueprint. Moreover, the current lab book teaches you how to analyze a problem, configure the solution, verify and test it. Upon the completion of the 31 labs, you'll be able to install, configure, operate, and troubleshoot switched networks. Comprehensive CCNP Lab Manual Thirty-two labs divided into seven modules to help you study and practice all exam topics. The workbook includes more than 300 pages allowing you to build up a high level of network configuration and troubleshooting skills in identifying and solving Cisco Catalyst switch problems. Each module contains dozens of tips and tricks that require only one commitment from you - pay attention and practice. You'll never get lost or wonder what you should be doing after. It's all logically and intuitively laid out to maximize knowledge and minimize confusion. What do you need to practice the

labs? You can practice almost all the labs using Cisco Catalyst 3560 series switches running at least the Cisco IOS 15.0(2) SE6 C3560-IPSERVICESK9-M image. If you do not want to use real gear, do not worry. CCNP SWITCH lab guide is easy to use with GNS3. Most of the labs have been developed using GNS3 and a Cisco VIRL IOSvL2 image. Moreover, all you need to build your labs is a Cisco IOS image file, Cisco IOSvL2 15.2 (downloaded from the official website of VIRL) and the latest version of GNS3 (Graphical Network Simulator). If you do not know how to build up a lab in GNS3, then you can search on Youtube, and find many videos that teach how to do so. Finally, you can rent a couple of Cisco switches and routers online for about five dollars per hour to practice the technologies that are not supported by GNS3. Excellent Support By investing in this CCNP certification lab manual, you will benefit from my great support. Whenever you encounter issues, contact me at the email address you will find inside the book, and I will help you as fast as I can. Your satisfaction is my goal. Therefore, by investing in this book, you will receive a high-quality product and excellent support. Small Investment with High ROI This is a high-quality lab workbook sold for a low price. You will never gain the hands-on experience that this CCNP lab workbook provides you even you spend thousands of dollars in CCNP training. Finally, let me help you succeed in your CCNP journey. Mohamed Ouamer.

**cisco ccnp routing and switching:** CCNP Routing and Switching Portable Command Guide Scott Empson, Patrick Gargano, Hans Roth, 2014-12-22 This Portable Command Guide assists network administrators in the proper use of the Cisco IOS and of the commands needed to pass the latest individual CCNP certification exams, in a thin, easy-to-carry format. The guide summarizes all certification related commands, keywords, command arguments, and associated prompts. Configuration examples are provided throughout the book to give a better understanding of how these commands are used in simple network designs.

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