

Cisco Packet Tracer Eigrp Lab Answers

Cisco Packet Tracer Eigrp Lab Answers cisco packet tracer eigrp lab answers are essential for networking students and professionals aiming to understand and implement the Enhanced Interior Gateway Routing Protocol (EIGRP) within Cisco Packet Tracer environments. Mastering these labs not only enhances practical networking skills but also prepares individuals for real-world network design, troubleshooting, and configuration tasks. This comprehensive guide provides detailed explanations, step-by-step solutions, and best practices to help you navigate EIGRP labs efficiently and confidently. --- Understanding EIGRP and Its Significance in Networking What Is EIGRP? EIGRP (Enhanced Interior Gateway Routing Protocol) is a Cisco proprietary routing protocol that combines the advantages of both distance-vector and link-state protocols. It is designed to facilitate fast convergence, scalability, and efficient routing within autonomous systems. Why Use EIGRP? EIGRP offers several benefits over traditional routing protocols: Fast Convergence: Quickly adapts to network topology changes. Efficient Bandwidth Usage: Uses less bandwidth compared to other protocols. Loop Prevention: Employs DUAL (Diffusing Update Algorithm) to prevent routing loops. Supports VLSM and CIDR: Enables hierarchical network design. Common EIGRP Lab Scenarios in Cisco Packet Tracer Basic EIGRP Configuration This involves configuring EIGRP on routers to establish routing between different networks. Implementing EIGRP with Multiple Networks Involves configuring multiple network statements to advertise various subnets across routers. 2 Verifying EIGRP Operation Includes commands and techniques to ensure EIGRP neighbors are established and routes are correctly propagated. Route Redistribution and Filtering Advanced labs where EIGRP routes are redistributed into other protocols or filtered based on policies. Step-by-Step Guide to Solving EIGRP Labs in Cisco Packet Tracer 1. Basic EIGRP Configuration Lab This foundational lab helps you understand how to set up EIGRP between routers. Setup Network Topology: Arrange routers and switches in Packet Tracer, 1. connecting them with appropriate cables. Assign IP Addresses: Configure IP addresses on all router interfaces, ensuring 2. they are on the correct subnets. Enable EIGRP: Enter global configuration mode and enable EIGRP with the 3. autonomous system number (ASN). Advertise

Networks: Use the "network" command to specify which interfaces participate in EIGRP. Verify Neighbor Relationships: Use "show ip eigrp neighbors" to confirm adjacency. Check Routing Tables: Use "show ip route" to see if routes are being advertised and learned properly.

2. Configuring Multiple Network Statements

This scenario involves configuring multiple network statements to advertise different subnets.

Identify Networks:

Determine all subnets connected to the routers.

1. Configure Network Commands:

Use multiple "network" commands in EIGRP configuration mode for each subnet. Ensure Propagation: Check routing tables on neighboring routers to verify route advertisement.

Troubleshoot:

If routes are missing, verify interface statuses and correct network statements.

3. Verifying EIGRP Neighbors and Routes

Verification is crucial to confirm proper EIGRP operation.

Check Neighbor Status:

Run "show ip eigrp neighbors" for neighbor details.

1. Inspect EIGRP Topology:

Use "show ip eigrp topology" to see all learned routes and metrics.

Review Routing Table:

Use "show ip route eigrp" to display EIGRP routes specifically.

4. Advanced EIGRP Configuration: Route Filtering and Redistribution

When working with complex networks, filtering and redistribution become necessary.

Filtering Routes:

Implement prefix lists or distribute-lists to control which routes are advertised or accepted.

Route Redistribution:

Redistribute external routes or routes from other routing protocols into EIGRP using the "redistribute" command.

Monitor Changes:

Use debugging commands and verification steps to ensure configurations are working as intended.

Best Practices for Completing EIGRP Labs

1. Planning Your Network Topology

Before configuring, sketch out the network topology, IP schemes, and which interfaces will participate in EIGRP.

2. Consistent IP Addressing

Maintain a structured IP addressing plan to simplify configuration and troubleshooting.

3. Use of Descriptive Hostnames and Interface Names

Improve clarity by naming devices and interfaces logically.

4. Incremental Configuration and Testing

Configure EIGRP step-by-step, verifying at each stage to isolate issues quickly.

5. Documentation

Keep records of configurations, network diagrams, and command outputs for future reference and troubleshooting.

4 Common Troubleshooting Tips for EIGRP Labs

Check Interface Status:

Ensure all involved interfaces are up and configured correctly.

Verify Autonomous System Number:

Match the ASN on all routers participating in EIGRP.

Examine Network Statements:

Confirm network commands cover all relevant interfaces.

Review Neighbor Relationships:

Use "show ip eigrp neighbors" to identify adjacency issues.

Check for Mismatched Subnets:

Ensure IP addresses and subnet masks are correct and consistent. Look

for Access Control Lists (ACLs): Confirm ACLs are not blocking EIGRP traffic. Conclusion Mastering the "cisco packet tracer eigrp lab answers" involves understanding EIGRP fundamentals, carefully following configuration steps, verifying each stage, and applying troubleshooting techniques when necessary. Whether you're a student preparing for exams or a network engineer designing robust networks, these labs provide invaluable hands-on experience. By practicing these scenarios and adhering to best practices, you'll develop the confidence and skills needed to implement and troubleshoot EIGRP effectively in real-world Cisco networks. --- If you want to deepen your understanding, consider exploring advanced topics such as EIGRP route summarization, metric tuning, and security features. Regular practice with Cisco Packet Tracer labs will reinforce your knowledge and prepare you for industry certifications like CCNA and CCNP.

Question Answer What is the primary purpose of configuring EIGRP in a Cisco Packet Tracer lab? The primary purpose is to enable dynamic routing between routers, allowing them to automatically learn and update routes within the network for efficient data transmission. How do you verify EIGRP neighbor adjacency in Cisco Packet Tracer? Use the command 'show ip eigrp neighbors' on the router to display neighboring routers that have established EIGRP adjacencies. What is the significance of the 'network' command in EIGRP configuration within Packet Tracer? The 'network' command specifies which IP address ranges will participate in EIGRP routing, enabling routers to advertise and learn routes within those networks.

5 How can you troubleshoot EIGRP route advertisements in Cisco Packet Tracer? Use commands like 'show ip protocols', 'show ip route eigrp', and 'debug eigrp packets' to monitor EIGRP operations and identify issues with route exchange or neighbor formation. What is the purpose of EIGRP metrics, and how are they calculated? EIGRP metrics determine the best path to a destination, calculated based on bandwidth, delay, load, and reliability, with bandwidth and delay being the most influential in the default calculation. How do you implement route summarization in an EIGRP lab in Cisco Packet Tracer? Configure manual route summarization on the router interface using the 'ip summary-address eigrp [AS number] [Summary IP] [Mask]' command to reduce the size of routing tables. What are common issues faced in EIGRP labs in Packet Tracer and their solutions? Common issues include neighbor adjacency problems, incorrect network statements, or mismatched autonomous system numbers. Solutions involve verifying configurations, ensuring correct network ranges, and matching AS numbers across routers. How does EIGRP differ from OSPF in Packet Tracer labs? EIGRP is a Cisco

proprietary protocol that uses a composite metric and supports rapid convergence, while OSPF is an open standard that uses link-state routing with a different metric and hierarchical design. Their configurations and behaviors differ accordingly. Cisco Packet Tracer EIGRP Lab Answers: A Comprehensive Guide for Networking Enthusiasts

Introduction cisco packet tracer eigrp lab answers are often sought after by students and networking professionals eager to grasp the intricacies of Cisco's Enhanced Interior Gateway Routing Protocol (EIGRP). As one of the most efficient and scalable routing protocols, EIGRP plays a vital role in modern enterprise networks. Mastering its configuration, troubleshooting, and optimization within Cisco Packet Tracer – a popular network simulation tool – can significantly accelerate learning and practical application. This article aims to demystify EIGRP labs, providing a detailed, step-by-step guide to understanding core concepts, solving common challenges, and achieving accurate lab results.

--- Understanding EIGRP: The Foundation of the Lab

Before diving into lab answers, it is essential to understand EIGRP's fundamental principles, operational mechanisms, and why it is favored in many network designs. What is EIGRP? Enhanced Interior Gateway Routing Protocol (EIGRP) is a Cisco proprietary routing protocol that combines features of distance-vector and link-state protocols, making it a hybrid routing protocol. It is designed to provide fast convergence, efficient route computation, and scalability.

Key Features of EIGRP

- Diffusing Update Algorithm (DUAL): Ensures rapid convergence and loop-free routing.
- Classless Routing: Supports Variable Length Subnet Masking (VLSM) and CIDR.
- Automatic Summarization: Can be configured to summarize routes at classful boundaries.
- Multiple Protocol Support: EIGRP can carry routing information for multiple network layer protocols (e.g., IPv4, IPv6).
- Reliable Transport

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Protocol: Uses RTP (Reliable Transport Protocol) for update delivery.

--- Setting Up EIGRP in Cisco Packet Tracer: The Typical Lab Environment

A typical EIGRP lab in Cisco Packet Tracer involves multiple routers interconnected via switches and links, with the goal of establishing optimal routing paths, verifying configurations, and troubleshooting issues.

Common Lab Topology Components

- Router Devices: Usually Cisco routers such as 2901, 2911, or 1941.
- Switch Devices: Cisco switches for network segmentation.
- End Devices: PCs, servers, or other hosts to test connectivity.
- Links: Ethernet, serial, or wireless connections.

Basic EIGRP Configuration Steps

1. Enable EIGRP Routing on Routers
2. Assign Router IDs (if necessary)
3. Specify Networks to Include in EIGRP
4. Verify EIGRP Neighbors and

Routes 5. Troubleshoot any Connectivity Issues --- Typical EIGRP Lab Tasks and Their Solutions In practical labs, students are often tasked with specific objectives such as configuring EIGRP across multiple routers, verifying route advertisements, or troubleshooting failures. Below are common tasks and their detailed solutions. Task 1: Configuring EIGRP on Multiple Routers Scenario: You have three routers interconnected, and your goal is to enable EIGRP to facilitate dynamic routing. Step-by-Step Solution: 1. Access Each Router's CLI 2. Enable EIGRP with a Process ID (e.g., 100): `Router> enable` Router configure terminal Router(config) router eigrp 100 3. Specify the Networks to Advertise: `Router(config-router) network 192.168.1.0` Router(config-router) network 192.168.2.0 Router(config-router) network 10.0.0.0 (Replace these with actual network addresses in your topology.) 4. Optional: Set Router ID for clarity `Router(config-router) eigrp router-id 1.1.1.1` 5. Save Configuration `Router(config) end` Router write memory 6. Verify EIGRP Operation `Router show ip protocols` Router show ip eigrp neighbors Router show ip route Task 2: Verifying and Troubleshooting EIGRP Neighbors Common Issue: Not seeing expected neighbor relationships. Troubleshooting Steps: - Check Interface Status `Router show ip interface brief` Ensure interfaces are up and have correct IP addresses. - Verify EIGRP Neighbors `Router show ip eigrp neighbors` - Review EIGRP Configuration `Router show run | section eigrp` - Check for Mismatched Autonomous System Numbers Neighbors must share the same ASN. - Ensure Proper Network Statements All interfaces participating in EIGRP must be included in the network commands. - Verify No Access Control Lists (ACLs) Blocking EIGRP EIGRP uses protocol number 88; ensure no ACLs are blocking this traffic. Task 3: Troubleshooting Routing Issues Scenario: Certain networks are not reachable despite EIGRP configuration. Solutions: - Check for Summarization Issues EIGRP may be summarizing routes incorrectly; disable automatic summarization if necessary: `Router(config-router) no auto-summary` - Inspect Routing Tables `Router show ip route` - Verify Route Advertisement `Router show ip eigrp topology` - Check for Mismatched Subnet Masks Inconsistent subnet masks can prevent adjacency. --- Advanced Topics in EIGRP Labs Beyond basic configuration, advanced labs often delve into topics such as route filtering, route redistribution, authentication, and load balancing. Route Filtering and Distribute Lists Controlling which routes are advertised or accepted can be achieved via distribute-

lists: ```plaintext Router(config-router) distribute-list 10 in
Router(config) access-list 10 permit 192.168.1.0 0.0.0.255 ``` Route
Summarization To optimize routing tables, summarization can be
manually configured: ```plaintext Router(config-router) ip summary-
address eigrp 100 192.168.0.0 255.255.0.0 ``` Authentication Securing
EIGRP updates can be done with MD5 authentication: ```plaintext
Router(config-router) ip authentication mode eigrp 100 md5
Router(config-router) ip authentication key-chain eigrp 100 AUTH_KEY
``` --- Best Practices for EIGRP Lab Success - Consistent ASN: Ensure  
all routers in the same EIGRP domain share the same autonomous system  
number. - Proper Network Statements: Include all relevant subnets and  
interfaces. - Disable Auto-Summary: Especially in discontinuous  
networks. - Verify Neighbors Regularly: Use show commands after  
configuration. - Document Changes: Maintain clear records of  
configurations and troubleshooting steps. - Simulate Failures:  
Practice disconnecting links to observe convergence behaviors. ---  
Resources and Additional Learning - Cisco Official Documentation:  
Provides detailed configuration guides and best practices. - Packet  
Tracer Practice Labs: Many online platforms offer pre- designed EIGRP  
labs. - Networking Forums: Communities like Cisco Learning Network for  
peer support and tips. - Simulation Tools: Besides Packet Tracer, GNS3  
and Cisco VIRL offer more advanced environments. --- Conclusion  
Mastering EIGRP through Cisco Packet Tracer labs requires a solid  
understanding of routing principles, meticulous configuration, and  
effective troubleshooting skills. While the answers to labs provide  
immediate solutions, the true learning comes from understanding the  
underlying mechanisms, such as neighbor discovery, route calculation,  
and convergence processes. By practicing these tasks and following  
systematic troubleshooting steps, networking students and  
professionals can develop a robust skill set that translates  
seamlessly into real-world network environments. Whether you're  
preparing for certification exams or managing enterprise networks, a  
thorough grasp of EIGRP lab answers and concepts is an invaluable  
asset. Cisco Packet Tracer, EIGRP configuration, EIGRP lab, networking  
labs, Cisco networking, routing protocols, EIGRP troubleshooting,  
Cisco Packet Tracer tutorials, EIGRP simulation, network topology

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Computer Security: CompTIA Security+ and Beyond Lab Manual (Exam SY0-601) Dynamic Routing Protocols. Creating Stability and Reliability through Evaluation and Comparison Advanced Cisco Routing: RIPv2, EIGRP, and OSPF. 13 Lab Cisco Packet Tracer : Routing And Switching Becoming Network Expert with Packet Tracer [I] Network Design and Management CISCO CCNA Routing and Switching (Network Simulation with Packet Tracer) CISCO PACKET TRACER LABS CCNA LAB with Solution Class A EIGRP Network Design Solutions Scaling Networks v6 Course Booklet Routing and Switching Essentials Companion Guide Accessing the WAN, CCNA Exploration Companion Guide CCNA 200-301 Hands-on Mastery with Packet Tracer Allan Reid Rick Graziani Sio-Iong Ao Cisco Networking Academy Toby Velte Cisco Networking Academy Krishna Mohan Jonathan S. Weissman Oris Krianto Sulaiman Tukino, S.Kom., M.SI., CCNA Mulayam Singh Mohammad Asim Ansari Ivan Pepelnjak Cisco Networking Academy Cisco Networking Academy Vachon Anthony J. Sequeira

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the cisco networking academy ccna discovery curriculum version 4 the course the third of four in the new curriculum familiarizes you with the equipment applications and protocols installed in enterprise networks with a focus on switched networks ip telephony requirements and security it also introduces advanced routing protocols such as enhanced interior gateway routing protocol eigrp and open shortest path first ospf protocol hands on exercises include configuration installation and troubleshooting the learning guide s features help you focus on important concepts to succeed in this course chapter objectives review core concepts by answering the focus questions listed at the beginning of each chapter key terms refer to the lists of networking vocabulary introduced and highlighted in context in each chapter the glossary defines each key term summary of activities and labs maximize your study time with this complete list of all associated exercises at the end of each chapter check your understanding evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes the answer key explains each answer challenge questions and activities apply a deeper understanding of the concepts with these challenging end of chapter questions and activities the answer key explains each answer hands on labs master the practical hands on skills of the course by performing all the tasks in the course labs and additional challenge labs included in part ii of the learning guide this book is part of the cisco networking academy series from cisco press books in this series support and complement the cisco networking academy curriculum

routing protocols and concepts ccna exploration companion guide routing protocols and concepts ccna exploration companion guide is the official supplemental textbook for the routing protocols and concepts course in the cisco networking academy ccna exploration curriculum version 4 this course describes the architecture components and operation of routers and explains the principles of routing and the primary routing protocols the companion guide written and edited by networking academy instructors is designed as a portable desk reference to use anytime anywhere the book s features reinforce the material in the course to help you focus on important concepts and organize your study time for exams new and improved features help you study and succeed in this course chapter objectives review core concepts by answering the focus questions listed at the beginning of each chapter key terms refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context in

each chapter glossary consult the comprehensive glossary with more than 150 terms check your understanding questions and answer key evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes the answer key explains each answer challenge questions and activities strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the ccna exam the answer key explains each answer rick graziani has been a computer science and networking instructor at cabrillo college since 1994 allan johnson works full time developing curriculum for cisco networking academy allan also is a part time instructor at del mar college in corpus christi texas how to look for this icon to study the steps you need to learn to perform certain tasks packet tracer activities explore networking concepts in activities interspersed throughout some chapters using packet tracer v4.1 developed by cisco the files for these activities are on the accompanying cd rom also available for the routing protocols and concepts course routing protocols and concepts ccna exploration labs and study guide isbn 10 1 58713 204 4 isbn 13 978 1 58713 204 9 companion cd rom see instructions within the ebook on how to get access to the files from the cd rom that accompanies this print book the cd rom provides many useful tools and information to support your education packet tracer activity exercise files v4.1 a guide to using a networker's journal booklet taking notes a txt file of the chapter objectives more it career information tips on lifelong learning in networking this book is part of the cisco networking academy series from cisco press the products in this series support and complement the cisco networking academy online curriculum

intelligent systems are required to facilitate the use of information provided by the internet and other computer based technologies this book describes the state of the art in intelligent automation and systems engineering topics covered include intelligent decision making automation robotics expert systems fuzzy systems knowledge based systems knowledge extraction large database management data analysis tools computational biology optimization algorithms experimental designs complex system identification computational modeling systems simulation decision modeling and industrial applications

scaling networks companion guide is the official supplemental textbook for the scaling networks course in the cisco ccna academy this course describes the architecture components and operations of routers and

switches in a large and complex network you will learn how to configure routers and switches for advanced functionality by the end of this course you will be able to configure and troubleshoot routers and switches and resolve common issues with ospf eigrp stp and vtp in both ipv4 and ipv6 networks you will also develop the knowledge and skills needed to implement dhcp and dns operations in a network the companion guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time the book s features help you focus on important concepts to succeed in this course chapter objectives review core concepts by answering the focus questions listed at the beginning of each chapter key terms refer to the lists of networking vocabulary introduced and highlighted in context in each chapter glossary consult the comprehensive glossary with over 180 terms summary of activities and labs maximize your study time with this complete list of all associated practice exercises at the end of each chapter check your understanding evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes the answer key explains each answer related title scaling networks lab manual isbn 13 978 1 58713 325 1 isbn 10 1 58713 325 3 interactive activities reinforce your understanding of topics with all the different exercises from the online course identified throughout the book with this icon videos watch the videos embedded within the online course packet tracer activities explore and visualize networking concepts using packet tracer exercises interspersed throughout the chapters hands on labs work through all the course labs and class activities that are included in the course and published in the separate lab manual

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routing protocols companion guide is the official supplemental textbook for the routing protocols course in the cisco networking academy ccna routing and switching curriculum this course describes the architecture components and operations of routers and explains the principles of routing and routing protocols you learn how to configure a router for basic and advanced functionality by the end of this course you will be able to configure and troubleshoot routers and resolve common issues with ripv1 ripv2 eigrp and ospf in both ipv4 and ipv6 networks the companion guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time the book s features help you focus on important concepts to succeed in this course chapter objectives review core concepts by answering the focus questions listed at the beginning of each chapter key terms refer to the lists of networking vocabulary introduced and highlighted in context in each chapter glossary consult the comprehensive glossary with more than 150 terms summary of activities and labs maximize your study time with this complete list of all associated practice exercises at the end of each chapter check your understanding evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes the answer key explains each answer how to look for this icon to study the steps you need to learn to perform certain tasks interactive activities reinforce your understanding of topics by doing all the exercises from the online course identified throughout the book with this icon videos watch the videos embedded within the online course packet tracer activities explore and visualize networking concepts using packet tracer exercises interspersed throughout the chapters hands on labs work through all the course labs and class activities that are included in the course and published in the separate lab manual

this book covers ccna labs for the following topics basics of networking introduction to cisco packet tracer student basic configuration using cisco packet tracer student routing labs static routing dynamic routing using ripv2 dynamic routing using eigrp ospf multiple area standard acl extended acl static nat dynamic nat pat

practice the skills essential for a successful career in cybersecurity this hands on guide contains more than 90 labs that challenge you to solve real world problems and help you to master key cybersecurity concepts clear measurable lab results map to exam objectives offering direct correlation to principles of computer security comptia security tm and beyond sixth edition exam sy0 601 for each lab you will get a complete materials list step by step instructions and scenarios that require you to think critically each chapter concludes with lab analysis questions and a key term quiz beyond helping you prepare for the challenging exam this book teaches and reinforces the hands on real world skills that employers are looking for in this lab manual you ll gain knowledge and hands on experience with linux systems administration and security reconnaissance social engineering phishing encryption hashing openpgp dnssec tls ssh hacking into systems routers and switches routing and switching port security acls password cracking cracking wpa2 deauthentication attacks intercepting wireless traffic snort ids active directory file servers gpos malware reverse engineering port scanning packet sniffing packet crafting packet spoofing spf dkim and dmarc microsoft azure aws sql injection attacks fileless malware with powershell hacking with metasploit and armitage computer forensics shodan google hacking policies ethics and much more

master s thesis from the year 2022 in the subject computer science internet new technologies grade 1 5 language english abstract the main objective of this study is the empirical analysis of the evaluation and comparison of dynamic routing protocols regarding their stability and reliability an especially close look will be paid to eigrp ospf and rip rip routing information protocol being one of the oldest routing protocols still in service a routing protocol is a protocol which is responsible to determine how routers communicate with each other and forward packets through an optimal path travelling from source node to destination node each routing protocols performs in different ways they have their own architecture route to follow and sometimes even delays in packets ospf builds a database of routes to its neighbors using an algorithm to calculate the best possible path eigrp is a vector routing protocol that is used on a computer network to help automate routing decisions and configuration the author of this text is not a native english speaker please excuse any grammatical errors and other inconsistencies

routing dictates how your organization s information and the rest of the world s gets from point a to point b and it s the responsibility

of network professionals to get routing right so join lazaro diaz as he takes you through advanced topics and techniques in cisco routing from configuring ripv2 routes for smaller networks to eigrp advanced distance routing and ospf a more complex protocol that brings many more features and greater flexibility to your network you ll be able to practice configuring all of these protocols using the packet tracer demo environment and lazaro s detailed tutorials

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features of this book 1 this book gives the fast lane for network expert through cumulative and integrating method about lan wan voip of network knowledge 2 thist book gives the most efficient road to be a network consultant and anaylst only with packet tracer software 3 you will become a network technician in a month thanks

ccna is a certificate intended for those who already have fundamental knowledge and expertise regarding lan wan computer networks such as planning building and maintaining computer networks based on cisco system devices meanwhile ccnp is a certification for network engineer professionals who have the same level as those who have ccna with the added ability to analyze and optimize computer networks based on cisco devices

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eigrp network design solutions uses case studies and real world configuration examples to help you gain an in depth understanding of the issues involved in designing deploying and managing eigrp based networks it details proper designs that can be used to build large and scalable eigrp based networks and documents possible ways each eigrp feature can be used in network design implementation troubleshooting and monitoring book jacket title summary field provided by blackwell north america inc all rights reserved

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