



Standard Custom

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- Address Optimization
 - Network Address Transfer
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 - Configuring Single-Area C
 - Configuring Multi-Area O
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 - Policy Routing
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 - Configuring Basic Border
 - Multicast Routing
 - Configuring IPv6 Routing
 - Configuring Static and OS
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 - Traffic Shaping over Fram
 - Single Site Network
 - Multi-Site Network
 - Frame Relay with Dial Be
 - Hierarchical IP Addressing
 - Configuring EIGRP Part II
 - Route Summarization**
 - Multi-Area OSPF Routing
 - Multi-Site Frame Relay w
 - Configuring EIGRP Part I
 - EIGRP and Frame Relay

Lab Description

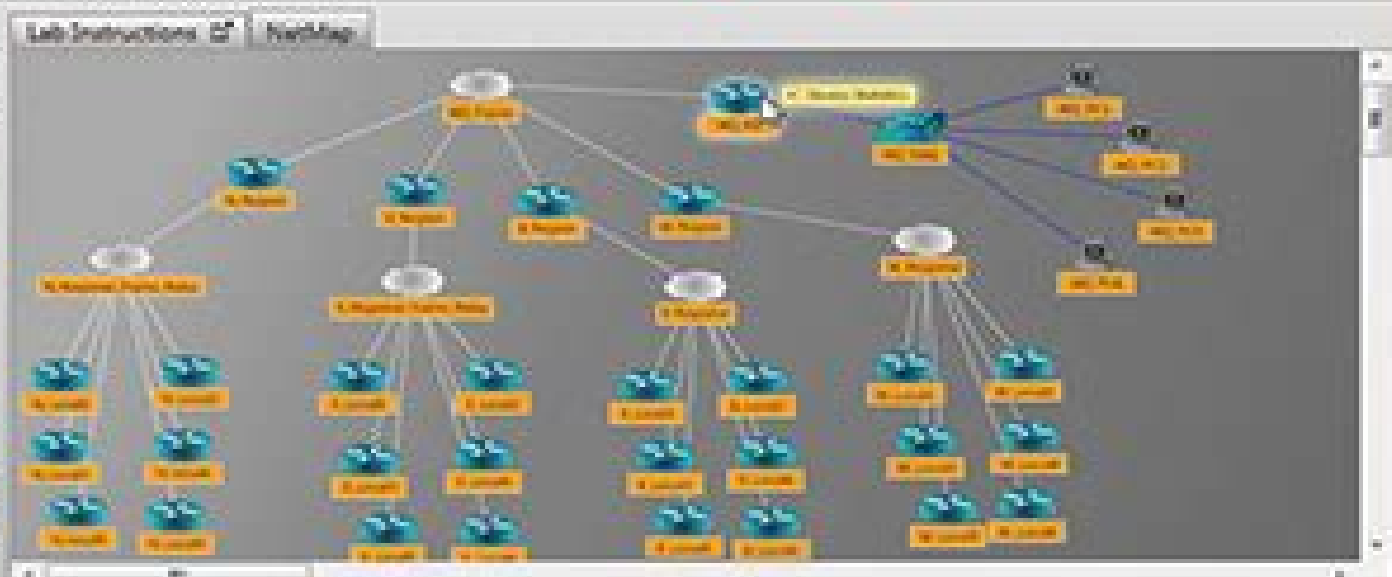
This lab will focus on the use of summary routes and routing optimization. You will learn to minimize routing table size and reduce convergence time by advertising summary routes.

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Labs

Network Designer

Lab Compiler



Consoles

Devices: HQ_R1 (Device #1) Settings... SDM

```
172.16.0.0/16 is variably subnetted, 19 subnets
C    172.16.109.0/30 is directly connected, Serial1/0.102
C    172.16.104.0/23 is directly connected, Ethernet0/0
C    172.16.109.12/30 is directly connected, Serial1/0.103
C    172.16.109.14/30 is directly connected, Serial1/0.104
C    172.16.109.16/30 is directly connected, Serial1/0.105
M    172.16.112.8/30 [120/1] via 172.16.109.16, 00:04:13, Serial1/0.103
M    172.16.112.12/30 [120/1] via 172.16.109.16, 00:04:20, Serial1/0.103
M    172.16.112.14/30 [120/1] via 172.16.109.16, 00:05:00, Serial1/0.103
M    172.16.112.20/30 [120/1] via 172.16.109.16, 00:04:42, Serial1/0.103
M    172.16.112.24/30 [120/1] via 172.16.109.16, 00:05:29, Serial1/0.103
M    172.16.112.4/30 [120/1] via 172.16.109.16, 00:03:18, Serial1/0.103
M    172.16.116.8/30 [120/1] via 172.16.109.16, 00:05:30, Serial1/0.104
M    172.16.116.12/30 [120/1] via 172.16.109.16, 00:02:10, Serial1/0.104
M    172.16.116.14/30 [120/1] via 172.16.109.16, 00:01:20, Serial1/0.104
```

---SDM---

HQ_R1 HQ_PC1

Network Simulator Lab Manual

Jonathan S. Weissman



Network Simulator Lab Manual:

Network Simulation Experiments Manual Emad Aboelela, 2011-04-13 Network Simulation Experiments Manual Third Edition is a practical tool containing detailed simulation based experiments to help students and professionals learn about key concepts in computer networking. It allows the networking professional to visualize how computer networks work with the aid of a software tool called OPNET to simulate network function. OPNET provides a virtual environment for modeling, analyzing, and predicting the performance of IT infrastructures including applications, servers, and networking technologies. It can be downloaded free of charge and is easy to install. The book's simulation approach provides a virtual environment for a wide range of desirable features such as modeling a network based on specified criteria and analyzing its performance under different scenarios. The experiments include the basics of using OPNET, IT Guru Academic Edition, operation of the Ethernet network, partitioning of a physical network into separate logical networks using virtual local area networks (VLANs) and the basics of network design. Also covered are congestion control algorithms implemented by the Transmission Control Protocol (TCP), the effects of various queuing disciplines on packet delivery and delay for different services, and the role of firewalls and virtual private networks (VPNs) in providing security to shared public networks. Each experiment in this updated edition is accompanied by review questions, a lab report, and exercises. Networking designers and professionals as well as graduate students will find this manual extremely helpful. Updated and expanded by an instructor who has used OPNET simulation tools in his classroom for numerous demonstrations and real world scenarios. Software download based on an award winning product made by OPNET Technologies Inc whose software is used by thousands of commercial and government organizations worldwide and by over 500 universities. Useful experimentation for professionals in the workplace who are interested in learning and demonstrating the capability of evaluating different commercial networking products i.e. Cisco routers. Covers the core networking topologies and includes assignments on Switched LANs, Network Design, CSMA, RIP, TCP, Queuing Disciplines, Web Caching etc.

Network+ Study Guide David Groth, Toby Skandier, Todd Lammle, William Tedder, 2005-05-16 If you're serious about getting your Network certification and advancing your career in the field of networking, this is the book you need. Revised for the new version of the Network exam N10-003, this Deluxe Edition of the best-selling Network Study Guide was developed to meet the exacting requirements of today's IT certification candidates. In addition to the engaging and accessible instructional style that has made author David Groth a reader favorite for years, this updated edition provides in-depth coverage of every Network exam objective. Practical instruction and insights drawn from real-world experience. Leading edge exam preparation software including the Network Virtual Lab as well as Sybex's custom test engine, electronic flashcards, and the entire book in PDF. In addition, you'll find authoritative coverage of all exam objectives including Media and Topologies, Protocols and Standards, Network Implementation, Network Support. Order your copy today.

CCNA Routing and Switching Practice and Study Guide Allan Johnson, 2014-04-10 CCNA Routing and

Switching Practice and Study Guide is designed with dozens of exercises to help you learn the concepts and configurations crucial to your success with the Interconnecting Cisco Networking Devices Part 2 ICND2 200 101 exam The author has mapped the chapters of this book to the last two Cisco Networking Academy courses in the CCNA Routing and Switching curricula Scaling Networks and Connecting Networks These courses cover the objectives of the Cisco Certified Networking Associate CCNA Routing and Switching certification Getting your CCNA Routing and Switching certification means that you have the knowledge and skills required to successfully install configure operate and troubleshoot a medium sized routed and switched networks As a Cisco Networking Academy student or someone taking CCNA related classes from professional training organizations or college and university level networking courses you will gain a detailed understanding of routing by successfully completing all the exercises in this book Each chapter is designed with a variety of exercises activities and scenarios to help you Review vocabulary Strengthen troubleshooting skills Boost configuration skills Reinforce concepts Research and analyze topics

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