

**NETWORK LABORATORY**  
**Lab 4: IP Addressing and Subnetting**

**AIM: Assigning IP addresses to a network using VLSM and FLSM**

**Reference Book: Chapter no 9 , CCNA Complete Guide 2nd Edition by Yap Chin Hoong**

1. Familiar your-self with IP basics; types of Class address; range of each class.
2. Design a topology for 3 network segments connected in a star topology through router .
  - a. 4 host (use switch)
  - b. 2 host and (use Switch)
  - c. 10 computer host + one DHCP Server (use Hub)Consider Class C Address 192.168.10.0/24

**Following Particle will demonstrate the difference between FLSM and VLSM Techniques.**

3. You need to create an IP plan for given network. You are given an address space of 192.168.1.0/24, and need to subnet it. This involves finding the mask, subnets, and ranges. You need four subnets, and that the four subnets need the following numbers of hosts:
  - 105 hosts
  - 50 hosts
  - 20 hosts
  - 10 hostsConsider yourself as Network Administrator you need to create an IP plan for this network by following methods
  - Unstructured FLSM
  - FLSM
  - VLSM
4. We're given the address space 172.16.55.0/24 (a Class "C" sized piece of a Class "B" network). There are two routers, connected by a pair of point-to-point WAN links (for fault-tolerance). In addition to the P2P links, R1 has four directly-attached LAN subnets, as follows:
  - 50 hosts
  - 20 hosts
  - 10 hosts
  - 5 hostsR2 also has four directly-attached LAN subnets, as follows:
  - 40 hosts
  - 25 hosts
  - 12 hosts
  - 4 hosts
5. A HQ site is connected to 20 remote sales offices in a hub and spoke topology (using point-to-point Frame Relay sub interfaces). We're given the address space 10.100.200.0/22. We need to subnet to support a HQ LAN subnet of 100 hosts, 20 sales office LANs of 25 hosts each, and the 20 WAN links connecting HQ to the remote sites.

# Network Laboratory Manual

**R Barnett**



## **Network Laboratory Manual:**

*Network+ Lab Manual for Guide to Networks* Todd Meadors, 2000 The Network Guide to Networks Lab Manual presents extensive hands on exercises and case studies to practice concepts learned on the way to obtaining Network certification Designed as a complement to Network Guide to Networks this manual also stands alone as an excellent resource for practical hands on independent study

**Data Communications and Networking Laboratory Manual** Pasquale De Marco, 2025-04-13 Embark on an immersive journey through the world of data communications and networking with this comprehensive laboratory manual meticulously designed to transform theoretical concepts into tangible experiences Written for students pursuing undergraduate or graduate studies in computer science engineering or related fields this manual offers an unparalleled opportunity to reinforce classroom learning through hands on experimentation and practical exercises Through a series of carefully structured experiments this manual delves into the intricacies of data transmission network protocols and network management Each experiment is meticulously crafted to elucidate a specific aspect of data communications and networking fostering a deeper understanding of the underlying principles and their practical applications With a strong emphasis on experiential learning this manual empowers students to actively engage with the concepts they encounter in the classroom By conducting hands on experiments students gain firsthand experience in configuring and troubleshooting network devices analyzing network traffic and implementing various network protocols This practical approach cultivates a profound comprehension of the subject matter and prepares students for success in their future careers Furthermore this manual is meticulously aligned with the latest industry standards and practices ensuring that students acquire up to date knowledge and skills that are highly sought after in the job market The experiments and exercises reflect real world scenarios enabling students to develop the critical thinking and problem solving abilities essential for thriving in the dynamic field of data communications and networking As students progress through the experiments they will delve into topics such as network topologies transmission media data link protocols network layer protocols transport layer protocols application layer protocols network security and network management Each experiment is accompanied by clear instructions detailed procedures and thought provoking questions that stimulate critical thinking and encourage students to explore beyond the confines of the laboratory By seamlessly blending theoretical knowledge with practical application this laboratory manual empowers students to master the intricacies of data communications and networking equipping them with the skills and confidence needed to excel in their chosen field If you like this book write a review on google books

**Computer Networks LAB MANUAL (A Complete Lab Experiments with Programmable Solutions)** Na Vikraman, 2019-10-04 This course provides students with hands on training regarding the design troubleshooting modeling and evaluation of computer networks In this course students are going to experiment in a real test bed networking environment and learn about network design and troubleshooting topics and tools such as network addressing Address

Resolution Protocol ARP basic troubleshooting tools e g ping ICMP IP routing e g RIP route discovery e g traceroute TCP and UDP IP fragmentation and many others Student will also be introduced to the network modeling and simulation and they will have the opportunity to build some simple networking models using the tool and perform simulations that will help them evaluate their design approaches and expected network performance

**Mike Meyers' Network+ Guide to Managing & Troubleshooting Networks Lab Manual** Michael Meyers,2004-08-30 Practice the concepts with over 40 labs that challenge students to solve real world problems with learned concepts The Network lab manual will challenge students to solve real world problems using concepts and skills taught in the textbook Avoiding a eoeck by clicke approach McGraw Hille tm s lab manual distinguishes itself by enabling teachers to assess their studentse tm knowledge of the subject and give students a way to practice their skills

**CompTIA Network+ Lab Manual** Toby Skandier,2012-01-31 Gain street smart skills in network administration Think of the most common and challenging tasks that network administrators face then read this book and find out how to perform those tasks step by step CompTIA Network Lab Manual provides an inside look into the field of network administration as though you were actually on the job You ll find a variety of scenarios and potential roadblocks as well as clearly mapped sections to help you prepare for the CompTIA Network Exam N10 005 Learn how to design implement configure maintain secure and troubleshoot a network with this street smart guide Provides step by step instructions for many of the tasks network administrators perform on a day to day basis such as configuring wireless components placing routers and servers configuring hubs switches and routers configuring a Windows client and troubleshooting a network Addresses the CompTIA Network Exam N10 005 objectives and also includes a variety of practice labs giving you plenty of opportunities for hands on skill building Organized by the phases of network administration designing a network implementing and configuring it maintenance and security and troubleshooting Study practice and review for the new CompTIA Network N10 005 Exam or a networking career with this practical thorough lab manual

Practical manual on tuberculosis laboratory strengthening World Health Organization,2022-10-31

**CompTIA A+ Complete Lab Manual** James Pyles,2012-09-13 Boost your understanding of CompTIA A exam principles with practical real world exercises Designed to complement CompTIA A Complete Study Guide this hands on companion book takes you step by step through the tasks a PC technician is likely to face on any given day It supports the theory explained in the test prep guide with additional practical application increasing a new PC technician s confidence and marketability Various scenarios incorporate roadblocks that may occur on the job and explain ways to successfully complete the task at hand In addition each task is mapped to a specific A exam objective for exams 220 801 and 220 802 Tasks are divided into categories hardware and software installation hardware and software maintenance and installing and upgrading operating systems networks and security systems Designed to enhance factual study with practical application Explains step by step how to perform a variety of tasks that PC technicians commonly face on the job Tasks include installing or replacing a power supply or a laptop hard

drive installing or upgrading to Windows 7 scanning for and removing viruses installing printer drivers and troubleshooting a network CompTIA A Complete Lab Manual gives you the hands on experience you need to succeed in the real world

**Switched Networks Lab Manual** Cisco Networking Cisco Networking Academy, Cisco Networking Academy Program, 2013-12-20 The Switched Networks Lab Manual provides students enrolled in a Cisco Networking Academy Switched Networks course with a convenient complete collection of all the course lab exercises that provide hands on practice and challenges

**Network+ Lab Manual** Tami Evanson, 2000 Candidates for the Network certification can find all the help they need in this student workbook which provides a full set of lab exercises to accompany the Network Study Guide and covers every objective defined by CompTIA for the exam

*Complete A+ Guide to IT Hardware and Software Lab Manual* Cheryl A. Schmidt, 2019-07-17 The companion Complete A Guide to IT Hardware and Software Lab Manual provides students hands on practice with various computer parts mobile devices wired networking wireless networking operating systems and security The 155 labs are designed in a step by step manner that allows students to experiment with various technologies and answer questions along the way to consider the steps being taken Some labs include challenge areas to further practice the new concepts The labs ensure students gain the experience and confidence required to succeed in industry

*Network Basics Companion Guide* Cisco Networking Academy Program, 2014 This is the only Cisco authorized companion guide to the official Cisco Networking Academy course in the new CCNA Routing and Switching curriculum An invaluable resource for hundreds of thousands of Cisco Networking Academy students worldwide this portable desk reference is ideal for anytime anywhere take home study and reference Fully aligned to the online course chapters it offers additional book based pedagogy to reinforce key concepts enhance student comprehension and promote retention Using it students can focus scarce study time organize review for quizzes and exams and get the day to day reference answers they are looking for The Companion Guide also offers instructors additional opportunities to assign take home reading or vocabulary homework helping students prepare more for in class lab work and discussions

**Microsoft Windows 2000 Networking Lab Manual** Ron Carswell, 2002

**Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fifth Edition (Exam N10-007)** Mike Meyers, Jonathan S. Weissman, 2018-07-13 Practice the Skills Essential for a Successful IT Career 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term quizzes help build your vocabulary Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fifth Edition covers Network models Cabling and topology Ethernet basics and modern Ethernet Installing a physical network TCP IP Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Mobile networking Building a real world network Managing risk Protecting your network Network monitoring and troubleshooting

**Introduction to Networks** Cisco Networking Academy Program, 2014

Introduction to Networks Companion Guide is the official supplemental textbook for the Introduction to Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum. The course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. 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.

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and skills needed to implement IPsec and virtual private network VPN operations in a complex network Back cover

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**Introduction to Networks v6 Companion Guide** Cisco Networking Academy, 2016-12-10 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book *Introduction to Networks Companion Guide v6* is the official supplemental textbook for the Introduction to Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum The course introduces the architecture structure functions components and models of the Internet and computer networks The principles of IP addressing and fundamentals of Ethernet concepts media and operations are introduced to provide a foundation for the curriculum By the end of the course you will be able to build simple LANs perform basic configurations for routers and switches and implement IP addressing schemes 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

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