

## NETWORK LAB MANUAL

### Exercise 1:

To learn to use ethereal to capture and analyze packets.

To do: Start ethereal on one or both interfaces that the machine has. Go to the *capture* menu and select the *start* option. Wait for some time and after enough packets have been captured, stop the capture.

Output: Ethereal output will show three frames.

- The first one will consist of one line messages for all packets captured stating the basic protocol type of the packet.
- The second frame will show the packet headers present in each packet – such as Ethernet, IP, UDP etc. Each of these headers can be expanded and the values of the various fields in these headers should be observed.
- The third frame consists of the hex dump of the packet. This can be related to the headers in the second frame

What to look for:

- For each different protocol type seen in the ethereal output, identify what is the demultiplexing field in the ethernet frame
- Identify how ethereal is able to classify the output as belonging to a particular protocol

Answer:

1. Why do you see many *ARP Requests* but not many *ARP replies* in the output?

### Exercise 2:

To learn how to configure IP addresses in Linux and understand rules of IP addressing

To do: Disconnect the machines from the general LAN. Using the switches provided, connect the machines into different switches – two or three per switch. Configure any random IP address to each of the machines.

How to: Use *net* command in RedHat versions of Linux. Or, alternately, use the command *ifconfig*.

Output: The IP address of the machine should be the configured value.

How to verify: Use the command *ifconfig*. This gives the IP addresses assigned to each of the interfaces of the machine. The other method is to *ping* to the address given. *ping* to a wrong address to see what happens.

Check: Reachability of other machines – do this by using the *ping* command.

1. whether you are able to reach the other machines connected to your switch.
2. whether you are able to reach machines connected to other switches.

# Network Design Lab Manual

**Cisco Networking Academy Program**



## **Network Design Lab Manual:**

**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 [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

**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 [Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fourth Edition \(Exam N10-006\)](#) Mike Meyers,Jonathan S. Weissman,2015-06-05 Practice the Skills Essential for a Successful IT Career Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fourth Edition features 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 Get complete coverage of key skills and concepts including Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Instructor resources available This lab manual supplements the textbook Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition Exam N10 006 which is available separately Solutions to the labs are not printed in the book and are only available to adopting instructors

**Scaling Networks Companion Guide** Cisco Networking Academy, Cisco Networking Academy Program, 2014 This is the only Cisco authorized companion guide to the official Cisco Networking Academy Scaling Networks course for the CCNA Routing and Switching curriculum An indispensable 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're looking for

**Connecting Networks Companion Guide** Cisco Networking Academy, 2014 This course discusses the WAN technologies and network services required by converged applications in a complex network The course allows you to understand the selection criteria of network devices and WAN technologies to meet network requirements You will learn how to configure and troubleshoot network devices and resolve common issues with data link protocols You will also develop the knowledge and skills needed to implement IPsec and virtual private network VPN operations in a complex network Back cover

**Guide to TCP/IP** Laura A. Chappell, Ed Tittel, 2004 This text provides a comprehensive hands on look at TCP IP It includes coverage of the latest TCP IP stack implementations in Windows XP 2003 and 2000 as well as coverage of IPv6 and SMTP Practice skills as they are learned with extensive hands on projects in depth case projects and review questions in each chapter Accompanying CD ROM contains a trial version of EtherPeek protocol analyzer software and sample protocol traces giving users direct hands on practice diagnosing protocol traces

**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 one-click approach McGraw Hill's lab manual distinguishes itself by enabling teachers to assess their students' knowledge of the subject and give students a way to practice their skills

**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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