

1. Introduction to Networking

Introduction

A network is simply a group of two or more Personal Computers linked together. Many types of networks exist, but the most common types of networks are Local-Area Networks (LANs), and Wide-Area Networks (WANs).

In a LAN, computers are connected together within a "local" area (for example, an office or home). In a WAN, computers are further apart and are connected via telephone/communication lines, radio waves or other means of connection.

How are Networks Categorized?

Networks are usually classified using three properties: Topology, Protocol and Architecture.

Topology specifies the geometric arrangement of the network. Common topologies are a bus, ring and star. You can check out a figure showing the three common types of network topologies [here](#).

Protocol specifies a common set of rules and signals the computers on the network use to communicate. Most networks use Ethernet, but some networks may use IBM's Token Ring protocol.

Architecture refers to one of the two major types of network architecture: Peer-to-peer or client/server. In a Peer-to-Peer networking configuration, there is no server, and computers simply connect with each other in a workgroup to share files, printers and Internet access. This is most commonly found in home configurations and is only practical for workgroups of a dozen or less computers. In a client/server network there is usually an NT Domain Controller, to which all of the computers log on. This server can provide various services, including centrally routed Internet Access, mail (including e-mail), file sharing and printer access, as well as ensuring security across the network. This is most commonly found in corporate configurations, where network security is essential.

Network Topologies

Introduction

Network topologies can take a bit of time to understand when you're all new to this kind of cool stuff, but it's very important to fully understand them as they are key elements to understanding and troubleshooting networks and will help you decide what actions to take when you're faced with network problems.

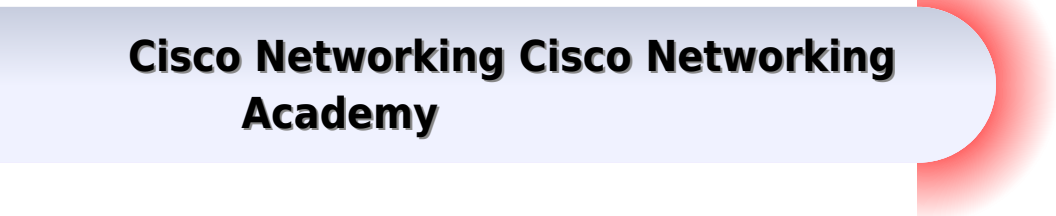
I will try to be as simple as possible and give some examples you can relate to, so let's get stuck right into this stuff!

The Stuff:

There are two types of topologies: Physical and Logical. The physical topology of a network refers to the layout of cables, computers and other peripherals. Try to imagine yourself in a room with a small network, you can see network cables coming out of

Computer Networking Lab Manual

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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

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

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 eoecklick 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

Mastering Networks Jörg Liebeherr, Magda El Zarki, 2003 Class tested for several years this text drives home the fundamentals of networks by providing real experience and using real equipment Ten labs each covering a specific aspect of networking allow students to put the details of computer networking into practice thereby giving them a solid understanding of and appreciation for the discipline

Introduction to Networks Cisco Networking Academy, 2013 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 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 195

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Switched Networks Lab Manual 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+ All-in-One Lab Manual](#) Catherine Creary, 2002-03-13 This guide prepares readers for the real world by applying networking concepts to solve real networking problems Contains step by step not click by click lab scenarios that require students to think critically

Connecting Networks V6 Labs & Study Guide Cisco Networking Academy, Allan Johnson, 2017-07 The only authorized Lab Manual for the Cisco Networking Academy Connecting Networks course in the CCNA Routing and Switching curriculum Each chapter of this book is divided into a Study Guide section followed by a Lab section The Study Guide section offers exercises that help you learn the concepts configurations and troubleshooting skills crucial to your success as a CCNA R S exam candidate Each chapter is slightly different and includes some or all the following types of exercises Vocabulary Matching Exercises Concept Questions Exercises Skill Building Activities and Scenarios Configuration Scenarios Packet Tracer Exercises Troubleshooting Scenarios The Labs Activities include all the online course Labs and Packet Tracer activity instructions If applicable this section begins with a Command Reference that you will complete to highlight all the commands introduced in the chapter

[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 Lab Manual](#) Cisco Networking Academy, 2013-08-04 The Network Basics Lab Manual provide students enrolled in the Cisco Networking Academy Network

Basics course with a convenient complete collection of all the course lab exercises that provide hands on practice and challenges

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