

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

Network Lab Manual

RD Boyd



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Table of Contents Network Lab Manual

1. Understanding the eBook Network Lab Manual
 - The Rise of Digital Reading Network Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Network Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Network Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Network Lab Manual
 - Personalized Recommendations
 - Network Lab Manual User Reviews and Ratings
 - Network Lab Manual and Bestseller Lists
5. Accessing Network Lab Manual Free and Paid eBooks
 - Network Lab Manual Public Domain eBooks
 - Network Lab Manual eBook Subscription Services
 - Network Lab Manual Budget-Friendly Options

6. Navigating Network Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Network Lab Manual Compatibility with Devices
 - Network Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Network Lab Manual
 - Highlighting and Note-Taking Network Lab Manual
 - Interactive Elements Network Lab Manual
8. Staying Engaged with Network Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Network Lab Manual
9. Balancing eBooks and Physical Books Network Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Network Lab Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Network Lab Manual
 - Setting Reading Goals Network Lab Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Network Lab Manual
 - Fact-Checking eBook Content of Network Lab Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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