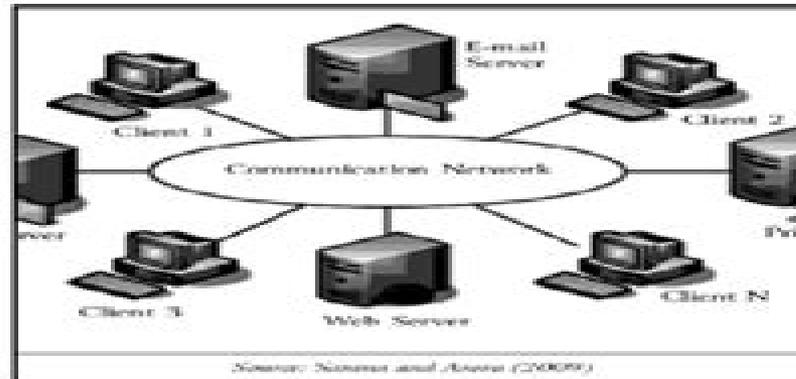


Practical : 1

Aim : Study of different network devices in detail.

◆ Computer Network :

→ Computer Network is a system in which multiple computers are connected to each other to share information and resources.



[Figure 1.1 Computer network]^[3]

◆ Network Devices :

→ Hardware devices that are used to connect computers, printers, fax machines and other electronic devices to a network are called network devices.

→ **Types of Network Devices :**

- 1) Hub
- 2) Switch
- 3) Router
- 4) Bridge
- 5) Gateway
- 6) Modem
- 7) Repeater

1) Hub :

→ A hub is a common connection point, also known as a network hub, which is used for connection of devices in a network.

→ It works as a central connection for all the devices that are connected through a hub.

→ A hub is a physical layer networking device which is used to connect multiple device in a network. They are generally used to connect computers in a LAN.

Computer Networking Practical Manual Mjauto

Jeffrey S. Beasley, Piyasat Nilkaew



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A Practical Guide to Computer Communications and Networking Richard J. Deasington, 1984 A Practical Guide to Advanced Networking Jeffrey S. Beasley, Piyasat Nilkaew, 2012-11-05

A Practical Guide to Advanced Networking Third Edition takes a pragmatic hands on approach to teaching advanced modern networking concepts from the network administrator's point of view Thoroughly updated for the latest networking technologies and applications the book guides you through designing configuring and managing campus networks connecting networks to the Internet and using the latest networking technologies The authors first show how to solve key network design challenges including data flow selection of network media IP allocation subnetting and configuration of both VLANs and Layer 3 routed networks Next they illuminate advanced routing techniques using RIP RIPv2 OSPF IS IS EIGRP and other protocols and show how to address common requirements such as static routing and route redistribution You'll find thorough coverage of configuring IP based network infrastructure and using powerful WireShark and NetFlow tools to analyze and troubleshoot traffic A full chapter on security introduces best practices for preventing DoS attacks configuring access lists and protecting routers switches VPNs and wireless networks This book's coverage also includes IPv6 Linux based networking Juniper routers BGP Internet routing and Voice over IP VoIP Every topic is introduced in clear easy to understand language key ideas are reinforced with working examples and hands on exercises based on powerful network simulation software

Key Pedagogical Features NET CHALLENGE SIMULATION SOFTWARE provides hands on experience with advanced router and switch commands interface configuration and protocols now including RIPv2 and IS IS WIRESHARK NETWORK PROTOCOL ANALYZER TECHNIQUES and EXAMPLES of advanced data traffic analysis throughout PROVEN TOOLS FOR MORE EFFECTIVE LEARNING including chapter outlines and summaries WORKING EXAMPLES IN EVERY CHAPTER to reinforce key concepts and promote mastery KEY TERMS DEFINITIONS LISTINGS and EXTENSIVE GLOSSARY to help you master the language of networking QUESTIONS PROBLEMS and CRITICAL THINKING QUESTIONS to help you deepen your understanding CD ROM includes Net Challenge Simulation Software and the Wireshark Network Protocol Analyzer Software examples

Computer Networking: Principles, Protocols, and Practice Olivier Bonaventure, 2011-10-30 This textbook came from a frustration of its main author Many authors chose to write a textbook because there are no textbooks in their field or because they are not satisfied with the existing textbooks This frustration has produced several excellent textbooks in the networking community At a time when networking textbooks were mainly theoretical Douglas Comer chose to write a textbook entirely focused on the TCP IP protocol suite a difficult choice at that time He later extended his textbook by describing a complete TCP IP implementation adding practical considerations to the theoretical descriptions in Richard Stevens approached the Internet like an explorer and explained the operation of protocols by looking at all the packets that were exchanged on the wire Jim Kurose and Keith Ross reinvented the networking textbooks by starting from the applications that the students use and later

explained the Internet protocols by removing one layer after the other

A Practical Approach To Computer Networking Mr. Suman Kumar Bhattacharyya, Dr. Suchismita Maiti, Dr. Neepa Biswas, Mr. Sauvik Bal, Dr. Suman Bhattacharya, 2025-02-19 Computer Networks is a broad and interconnected field and there are many excellent books that cover various aspects. In this book we try to analyze the concept in a convenient and easy way of understanding the practical approach. A Practical Approach to Computer Networking is a guide designed to provide readers with a comprehensive and hands-on understanding of computer networking concepts. The book typically caters to students, IT professionals, and anyone interested in learning how computer networks function in the real world. The book emphasizes practical applications of networking concepts, often including step-by-step instructions for setting up and troubleshooting networks.

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.

Hands-on Networking with Internet Technologies Douglas E. Comer, W. David Laverell, 2002. This clearly written and logically organized book allows the reader to gain a deeper understanding of computer networks and internets by asserting that the best way to learn is by doing it. It allows for hands-on experience with a real network. The book is organized into six sections that each consider a hardware platform from the most basic free-standing single computer to the most advanced powerful and expensive facilities and outlines experiments that can be carried out using these platforms. Through experiments, readers learn that interconnecting hardware, configuring software, measuring performance, observing protocols in action, and creating client-server programs over a network all help sharpen understanding.

Cisco Networking Essentials Craig Berg, 2020-06-15. Are you looking to get started with your journey to getting Cisco certified or merely want to increase your knowledge of networking to build on your IT skills and boost your career or business? Are you looking for a guide that breaks down the seemingly complex topic of computer networking into simple, digestible content that you can start applying right away to set up, manage, and troubleshoot computer networks with confidence? If you've answered YES, keep reading. You are 1 click away from learning how to develop more than average level knowledge of Cisco networking. You know the benefits of getting CCNA certification in the current tech industry that is openly hungry for network professionals. You know that you would easily get promoted for having practical network skills or land yourself a job in a better-paying Cisco partner company and other businesses. You also know that networking job demand is growing exponentially each year with a projected rate of 26% in 2020 alone. You know all that. But have you felt intimidated by the whole process of learning networking and even wondered whether you'd make it through a couple of weeks? Perhaps you're not an IT professional but desire to learn network hardware maintenance and management to improve your life in aspects like security, business efficiency, or for self-fulfillment but don't have a clue about where to begin. Then

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edition incorporating some of the latest technical features in networking is suitable for introductory one semester courses for undergraduate students of computer science and engineering electronics and telecommunication engineering information technology as well as students of computer applications BCA and MCA This text begins with an overview of computer networking and a discussion on data communication Then it proceeds to explain how computer networks such as local area networks LANs and wide area networks WANs work and how internetworking is implemented Besides the book provides a description of the Internet and TCP IP protocol With the prolific growth of networking network management and security has become an increasingly important part of the academic curriculum This topic has been adequately dealt with in a separate chapter The practical aspects of networking listing the essential requirements needed for actually setting up a computer network are thoroughly explained in the final chapter of the book

WHAT IS NEW IN THE SECOND EDITION Wireless LAN in Chapter 4 API and Socket Programming and End to End Protocol in Chapter 7 Remote Procedure Call RPC Protocol in Chapter 8 Dynamic Host Configuration Protocol Error reporting by ICMP Virtual Private Network VPN in Chapter 9 Network Address Translation NAT An appendix dealing with telephone networking wireless networking cellular networking and satellite and telemetry communication has been included to meet the requirements of the students

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Ramon Nastase, 2017-11-23 Here is a preview of what you will learn How the Internet works How end devices such as smart phone laptops tablets communicate in the Internet How do our networks work and of how many types are there What is a router a switch an IP address or a Mac address What is the OSI Model and how it helps us a breakdown of the 7 layers of the OSI Model How can you apply this knowledge in a practical scenario with Cisco devices

The International Handbook of Computer Networks Anique Qureshi, 2004 Detailed practical and thorough covering all major areas of networking Clear and understandable style written by a team of U S experts This essential reference covers the state of the art issues in network technologies in the business world It will help business managers to implement and manage the technology and allow them to communicate with professionals It offers practical and thorough guidance and will help managers improve network operations The book is comprehensive and detailed covering all major areas of networking in a clear and understandable manner Designed for business managers who are directly or indirectly involved with networking problems and solutions

Network Know-How John Ross, 2009-02-15 Are the machines in your office living isolated lives Do you have a few computers at home that you want to connect to each other and the Internet The best way to share files on a group of computers is to create a network But how do you do that Network Know How is your guide to connecting your machines filled with practical advice that will show you how to get things done You will learn the nitty gritty of network setup design and maintenance from running cables and placing wireless access points to configuring file sharing and printing This practical and comprehensive guide will teach you how to implement security create intranets and more You will learn how to Connect Windows Macintosh and Linux computers Implement network addressing Configure your network adapters hubs switches

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Networking, A Beginner's Guide, Fifth Edition Bruce Hallberg, 2009-11-24 A practical guide to networking fundamentals Fully up to date with the latest technologies this introductory handbook covers wired and wireless network design configuration hardware protocols security backup recovery virtualization and more After laying the groundwork Networking A Beginner's Guide Fifth Edition explains step by step how to install set up and administer Windows Server 2008 Exchange Server 2010 Fedora 10 and Apache If you're beginning a career in networking or looking to refresh your skills you need this detailed reference Learn about network cabling topologies hardware and the OSI Model Set up a small office and home office SOHO wired or wireless network Connect LANs and WANs Work with network protocols TCP IP UDP DHCP HTTP FTP SMTP VoIP and others Enable remote access through a VPN or other methods Secure your network and handle backup and disaster recovery Install configure and administer Windows Server 2008 Exchange Server 2010 Fedora 10 and Apache Understand virtualization technologies and learn how to set up and use VMware Server Learn how the Sarbanes Oxley Act of 2002 affects networking and IT professionals Bruce Hallberg has been involved in IT for more than 25 years and has consulted for Fortune 1000 firms on the implementation of management information and networking systems He is the bestselling author of more than 20 books

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