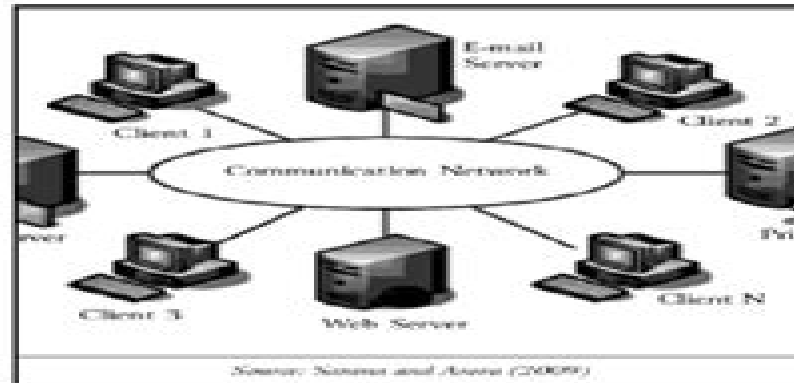


## Practical : 1

**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]<sup>[3]</sup>

### ◆ 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

**SA Adler**



## **Computer Networking Practical Manual Mjauto:**

**A Practical Guide to Computer Communications and Networking** Richard J. Deasington, 1984 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 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 **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 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 Computer Networking Tim Wired, 2019-11-19 Would you like to have the ability to understand today's technology and how it was created Maybe you already know something about computer networking and want to improve your knowledge and skill Or maybe are the kind of person who doesn't know a thing about computer technology and wants to accumulate some knowledge about it If your answer is Yes to at least one of these questions then keep reading We are super excited to represent our newest product COMPUTER NETWORKING a complete bundle book for people of all levels who want to learn how computer networking works and how to use it to your advantage The first networks of computer were created not a long time ago in early 1950s were used in the U S military and they were growing ever since These days we are miles ahead of what was created decades ago Our goal was to create a product that is going to help people to understand and learn the basic science of computer networking Also to understand the importance of computer networking in our everyday life and how to use all the benefits it provides Now let's take a look at only a few things you will get out of this book Complete step by step computer networking guide Practical advice on every system you can use Complete networking planning guide Understanding of every industry networks can be used in Breath history of all computer networks How to use internet to its full potential complete guide Many many more Here you have it If you came until this point you are more than ready to start and dive deep into the world of computer networking Take action now scroll up click on Buy Now and start reading *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 And 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

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*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 fields and there are many excellent books that cover various aspects In this book we were try to analysis the concept in 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

*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

**Cisco Networking Essentials** Craig Berg, 2020-06-16 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 And 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 About 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 keep reading as I have the perfect solution for you to get started with networking the right way This book is a simple straightforward and concise beginners guide to computer networking and is what you've been looking for This book recognizes that the first step to becoming a real network professional is having a solid foundation of networking essentials and its valuable content is weaved based on that understanding

**Networking Essentials Lab Manual** Cisco Networking Academy, 2021-10-20 The only authorized Lab Manual for the Cisco Networking Academy Networking Essentials course Curriculum Objectives Networking is at the heart of the digital transformation The network is essential to many business functions today including business critical data and operations cybersecurity and so much more This is a great course for developers data scientists

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**Computer Networking for Beginners** Jason Callaway,2020-11-08 If you are a student or a professional looking for more tech knowledge and skills or if you are simply curious about the fascinating world of computer networking and its powerful applications in our everyday life then this is the book for you In Computer Networking for Beginners Jason Callaway has condensed all the knowledge you need to pass your next exam or take a professional certification in a simple and clear way starting from the basics you will learn both the theoretical and the practical elements of networking becoming proficient with network technology regardless of your previous experience Learning how computers connect is not necessarily intended only for professionals Wireless technology is all around us when we surf the web use social networks or chat with friends and colleagues we instantaneously send millions of information from one device to another Anyone should be more aware of how this world works especially in order to understand and avoid the potential negative impacts on our work and our privacy of the several security issues that could unexpectedly come out Here is a tiny fraction of what you will find A complete explanation of the different network systems and their components The OSI reference model Computer Network Communication systems and their applications Internet Ethernet and wireless technology How a router works The precise definition of IP address with step by step instructions to configure it All the secrets to the little known process of IP subnetting How to configure a VLAN An introduction to Cisco System and the CCNA certification Computer networks vulnerabilities and the basics of cybersecurity Machine learning techniques As you can easily understand unlike all the other guides on the same topic that give you just the basics to get started here the author has left nothing out Becoming a professional networking engineer is now easier than ever

Computer Networking for Beginners Jason Callaway,2020-08-09 If you are a student or a professional looking for more tech knowledge and skills or if you are simply curious about the fascinating world of computer networking and its powerful applications in our everyday life then this is the book for you In Computer Networking for Beginners Jason Callaway has condensed all the knowledge you need to pass your next exam or take a professional certification in a simple and clear way starting from the basics you will learn both the theoretical and the practical elements of networking becoming proficient with network technology regardless of your previous experience Learning how computers connect is not necessarily intended only for professionals Wireless technology is all around us when we surf the web use social networks or chat with friends and colleagues we instantaneously send millions of information from one device to another Anyone should be more aware of how this world works especially in order to understand and avoid the potential negative impacts on our work and our privacy of the several security issues that could unexpectedly come out Here is a tiny fraction of what you will find A complete explanation of the different network systems and their components The OSI reference model Computer Network Communication systems and their applications

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**Computer Networks** Natalia Olifer,Victor Olifer,2006 This is a comprehensive guide covering both the theory of basic networking technologies as well as practical solutions to networking problems Networking concepts explained plainly with emphasis on how networks work together Practical solutions backed up with examples and case studies Balance of topics reflects modern environments Instructor and Student book site support including motivational courseware

FUNDAMENTALS OF COMPUTER NETWORKS, SECOND EDITION (REVISED) SUDAKSHINA KUNDU,2008-03-09 Focused on fundamental concepts and practical applications this book provides a strong foundation in the principles and terminology of computer networking and internet technology This thoroughly revised second 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 Computer Networking 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 **Understanding the Network**

Michael J. Martin, 2000 The growing dependence of enterprise networks on Internet connectivity is forcing professional system and network administrators to turn to technologies that they may not fully understand for solutions This book will provide those connectivity solutions delivering both an understanding of technology fundamentals and their practical applications Written for beginning to intermediate network professionals this book will give readers a framework to assess the requirements and problems of their particular environment and the information and know how to build the optimal network for that environment The content of the book provides the necessary balance between the basics and the practical examples needed to distinguish this book from other professional networking book offerings **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 ll 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 ll learn how to Connect Windows Macintosh and Linux computers Implement network addressing Configure your network adapters hubs switches and router Share music photos and documents Automate household appliances and stream digital audio and video to your home entertainment center Troubleshoot network slowdowns and failures No matter which operating system you use and even if you ve never installed or run a network before you ll get what you need to know in Network Know How Practical Networking Frank J. Derfler, 2000 Society commerce connectivity Practical internet options Connecting PCs for printer sharing A field guide to LANs *Computer Networking Essentials VOL-1* Anshuman Mishra, 2025-06-20 The digital age is powered by connectivity and the backbone of this global connectivity is networking Computer Networking Essentials Principles Protocols and Practical Implementations is an all inclusive guide tailored to meet the curriculum requirements of undergraduate and postgraduate students especially those pursuing computer science information technology and related disciplines However the content is designed in a way that it is equally accessible and beneficial to professionals network technicians IT administrators and aspirants preparing for competitive exams or certifications like CCNA CompTIA Network or GATE This book stands as a bridge between theoretical foundations and practical implementations It carefully balances the theoretical rigor required in academia with the practical aspects crucial for industry readiness With extensive explanations illustrations protocol breakdowns network design examples case studies and real world tools this book offers a 360 degree approach to understanding modern computer networks Key Features of the Book Aligned with Modern Curriculum Reflects latest academic syllabi of BCA MCA B Tech and M Sc in Computer Science across reputed universities In depth Explanation Every concept is explained step by step using clear simple language supported by diagrams and tables Real World Relevance

Practical insights into how networks function in real environments including corporate educational and ISP setups Hands on Approach Includes examples using tools like Wireshark Packet Tracer ipconfig netstat etc Chapter end Exercises Practice questions MCQs lab exercises and projects for each chapter Case Studies Provides real world case studies to explain network design security implementation and troubleshooting Detailed Overview of Chapters Chapter 1 Introduction to Computer Networks This chapter introduces the fundamentals of computer networking explaining why networks are necessary what problems they solve and how they have evolved It covers types of networks LAN WAN MAN PAN topologies and essential devices Real world scenarios are included to provide a contextual understanding Chapter 2 The OSI Reference Model Here the OSI model is thoroughly explained with each of its seven layers dissected to explain their responsibilities Special emphasis is given to protocols operating at each layer how layers interact and a detailed comparison between the OSI and TCP IP models Chapter 3 Data Communication Fundamentals This chapter discusses analog and digital signals transmission modes and transmission media It provides detailed diagrams and flowcharts that help explain modulation techniques and how data travels over a network Chapter 4 Network Devices and Their Roles Explores the functionality and placement of networking hardware like switches routers hubs bridges and modems It also explains the concept of collision domains and broadcast domains Chapter 5 TCP IP Protocol Suite Offers deep insight into the TCP IP model detailing protocols like IP TCP UDP ICMP ARP and DNS The chapter covers IP addressing subnetting supernetting and classful vs classless addressing with practice problems Chapter 6 Data Link Layer and MAC Sublayer Focuses on how frames are constructed transmitted and verified for errors Error detection techniques parity CRC and flow control protocols stop and wait sliding window are explained Chapter 7 Network Layer Routing algorithms congestion control and routing protocols like RIP OSPF and BGP are explored Emphasis is laid on packet delivery fragmentation and Quality of Service QoS Chapter 8 Transport Layer

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