

**STUDY GUIDE FOR MODULE NO. 2****Unit 2 – Types of Computer Network****MODULE OVERVIEW**

In this module we will discuss the various types of computer networks available. We can classify them according to their size as well as their purpose. The size of a network has to be expressed by the geographic area and number of computers, which are a part of their networks. It includes devices housed in a single room to millions of devices spread across the world.

**MODULE LEARNING OBJECTIVES**

At the end of this, students are expected to:

1. Enumerate and describe the different types of computer network and its implementation.

**LEARNING CONTENTS (Types of Network)****Types of Network**

1. LAN – Local Area Network (Figure 1)
2. WAN – Wide Area Network (Figure 2)
3. MAN – Metropolitan Area Network (Figure 3)
4. PAN – Personal Area Network (Figure 4)



Figure 1. LAN  
(source: [panabit.com](http://panabit.com))



Figure 1. WAN  
(source: [panabit.com](http://panabit.com))



# Computer Networking Study Guide

**Huawei Technologies Co., Ltd.**

## Computer Networking Study Guide:

**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're 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 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 woven based on that understanding. As a beginner, I imagine that you've been having certain questions and concerns such as: What's the best way or place to start learning networking? What are some of the essential topics I need to cover? How do I acquire a solid understanding of networking that would enable me to handle basic hardware and software networking tasks? What does networking even entail? If I am right, even if just close, I am confident that this book will prove 100% valuable to you. In just 1 click away, you will learn: What a computer network is and the types of networks we have; What an open systems interconnections model looks like and why it's important to divide a network into various layers; The ins and outs of data encapsulation; What you need to know in TCP IP; The role of Ethernet technologies and cabling; The basics of Ethernet cabling; Everything you need to know about data encapsulation in TCP IP model and the Cisco 3 layer hierarchical model; What IP addresses are and how they work; And much more. Even if you've never done anything like this before, by the end of this book, you will be confident to execute everything the book teaches. What's more, this book is also a practical, beginner-friendly guide that you'll enjoy reading and implementing, so consider this your lucky day. Scroll up and click Buy Now With 1 Click or Buy Now to get your copy today. **Networking Basics** Shawn McReynolds, 2007 The completely revised and only authorized Labs and Study Guide for the Cisco Networking Academy Program CCNA 1 curriculum. A portable classroom resource that supports the topics in the CCNA 1 curriculum, aligning 1:1 with course

modules Includes all the labs in the online curriculum as well as additional instructor created challenge labs for extended learning and classroom exercises Written by leading Academy instructor Shawn McReynolds who bring a fresh voice to the course material The all new Labs and Study Guide titles combine the best of the former Lab Companions and Engineering Journal and Workbooks with new features to improve the student s hands on skills and reinforce the topics for each CCNA course Networking Basics CCNA 1 Labs and Study Guide is a complete collection of the lab exercises specifically written for the CCNA 1 course in the Cisco Networking Academy Program designed to give students hands on experience in a particular concept or technology Each lab contains an introductory overview a preparation tools required section explanations of commands and step by step instructions to reinforce the concepts introduced in the online course and covered in the Companion Guide NEW Challenge labs written by Academy instructors tested in their classrooms will be included as additional or alternative labs The Study Guide section is designed to provide additional exercises and activities to reinforce students understanding of the course topics preparing them for the course assessments As a study guide it will also continue to provide ample writing opportunities to guide students into the habit of keeping notes on networking topics

*HCNA Networking Study Guide* Huawei Technologies Co., Ltd.,2016-07-04 This book is a study guide for Huawei HCNA certification

It has been written to help readers understand the principles of network technologies It covers topics including network fundamentals Ethernet various protocols such as those used in routing and Huawei s own VRP operating system all essential aspects of HCNA certification Presenting routing and switching basics in depth it is a valuable resource for information and communications technology ICT practitioners university students and network technology fans

### **Network+ Study Guide**

David Groth,2006-02-20 Here s the book you need to prepare for the Network exam This proven Sybex Study Guide provides

In depth coverage of every exam domain all the information you need Practical information on essential networking tasks Hundreds of challenging review questions in the book and on the CD Leading edge exam preparation software including a

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*CompTIA Network+ Study Guide* Todd Lammle,2011-02-25 Bestselling author Todd

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### **Network+ Guide to Networks,**

**Loose-Leaf Version** Jill West,Tamara Dean,Jean Andrews,2018-03-06 Master the technical skills and industry knowledge you need to begin an exciting career installing configuring and troubleshooting computer networks with West Dean Andrews NETWORK GUIDE TO NETWORKS 8th edition It thoroughly prepares you for success on CompTIA s Network N10 007 certification exam with fully mapped coverage of all objectives including protocols topologies hardware network design security and troubleshooting Virtualization based projects give you experience working with a wide variety of hardware software operating systems and device interactions while On the Job stories Applying Concepts activities and Hands On and Capstone Projects let you explore concepts in more depth MindTap Networking offers additional practice and certification prep The text s emphasis on real world problem solving provides the tools for success in any computing environment

*CompTIA Network+ Review Guide* Jon Buhagiar,2021-09-28 Prep for success on the Network N10 008 exam and for your new career in network administration with this must have resource In the newly updated Fifth Edition of the CompTIA Network Review Guide Exam N10 008 a leading expert in Network Operations Jon Buhagiar delivers a focused and concise handbook for anyone preparing for the new Network N10 008 exam or for a career in network administration This guide is organized into five parts with each part corresponding to one of the 5 objective domain areas of the Network exam Fundamentals Implementations Operations Security and Troubleshooting You ll handily learn crucial IT skills like designing and implementing functional networks configuring and managing essential network devices using switches and routers to segment network traffic and securing existing networks This book also allows you to Quickly and comprehensively prepare for the Network N10 008 exam with intuitively organized info and efficient learning strategies Discover the skills and techniques required in an entry level network administration interview and job Access the Sybex online learning center with chapter review questions full length practice exams hundreds of electronic flashcards and a glossary of key terms Perfect as a standalone resource for those seeking to succeed on the CompTIA Network N10 008 exam or as a companion to the CompTIA Network Study Guide and CompTIA Network Deluxe Study Guide this book is an indispensable reference for anyone preparing for a career in network administration network analysis or systems engineering

*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 woven based on that understanding. *CompTIA Network+ Deluxe Study Guide* Todd Lammle, 2009-04-20. More than 220 000 network professionals have achieved the Network certification since its inception, second only to the Cisco Certified Network Associate certification. This hardcover edition includes Sybex CompTIA Network Virtual Lab network simulator plus four additional bonus exams and 100 additional flashcards and is fully updated for the first revision of the exam since 2005. The guide contains concise information on security essentials and standards using practical examples and insights drawn from real world experience and covers key exam topics including network technologies, media and topologies, devices management tools and security. Note: CD ROM, DVD and other supplementary materials are not included as part of eBook file. For Instructors: Teaching supplements are available for this title. *CompTIA Network+ Study Guide Authorized Courseware* Todd Lammle, 2012-01-30. Todd Lammle's CompTIA Network Authorized Study Guide for the N10-005 exam. CompTIA's Network certification tells the world you have the skills to install, configure and troubleshoot today's basic networking hardware, peripherals and protocols. But first you have to pass the exam. This detailed CompTIA Authorized study guide by networking guru Todd Lammle has everything you need to prepare for the CompTIA's new Network Exam N10-005. All exam objectives are covered. He thoroughly explains key topics, offers plenty of practical examples and draws upon his own invaluable 25 years of networking experience to help you learn. Prepares you for Exam N10-005, the new CompTIA Network Exam. Covers all exam objectives including network technologies, network installation and configuration, network media and topologies, security and much more. Includes practical examples, review questions as well as access to practice exams and flashcards to reinforce learning. Go to [www.sybex.com/go/netplus2e](http://www.sybex.com/go/netplus2e) to register and download these tools. Networking guru and expert author Todd Lammle offers invaluable insights and tips drawn from real world experience. Prepare for the exam and enhance your career with the CompTIA Authorized CompTIA Network Study Guide Second Edition. *CompTIA Network+ Certification Study Guide* Robert Shimonski, Naomi Alpern, Michael Cross, 2009. CompTIA Network Certification Study Guide Exam N10-004 Second Edition offers a practical guide for those interested in pursuing CompTIA Network certification. It presents the fundamental terminology needed to perform duties as a network technician and to pass the CompTIA Network exam. The book begins with a brief history of the development of networks including their origins and where they are heading. It describes network models such as centralized

and decentralized and distinguishes between a local area network LAN and a wide area network WAN. The discussions include cable connections and termination for the Network exam, the meaning of convergence and the most common network devices being used on small and large networks including the Internet. The role of switches in improving network functionality and enhancing security is described. The book also contains chapters on wireless networking, Open Systems Interconnection OSI model, Transmission Control Protocol, Internet Protocol TCP IP, wide area network WAN technologies, network security and network management and troubleshooting. New to this edition in accordance with the newly revised exam is an intensified focus on network security. Two NEW practice exams to help eliminate test day jitters. Tiered chapter ending questions that allow for graduated learning. Covers everything from test taking techniques to advanced topics keeping the beginner and intermediate IT professional in mind. Layout of the guide parallels the Network N10-004 objectives for ease of study.

**CompTIA Network+ Study Guide** Todd Lammle, 2021-10-19. Prepare for the Network certification and a new career in network installation and administration. In the newly revised Fifth Edition of CompTIA Network Study Guide Exam N10-008, bestselling author and network expert Todd Lammle delivers thorough coverage of how to install, configure and troubleshoot today's basic networking hardware, peripherals and protocols. This book will prepare you to succeed on the sought-after CompTIA Network certification exam, impress interviewers in the network industry and excel in your first role as a junior network administrator, support technician or related position. The accomplished author draws on his 30 years of networking experience to walk you through the ins and outs of the five functional domains covered by the Network Exam N10-008: Networking fundamentals, implementations, operations, security and troubleshooting. You'll also get complete domain-specific coverage of the updated Network Exam N10-008 Preparation to obtain a leading network certification enjoyed by over 350,000 networking professionals. Access to a superior set of online study tools including practice exams, flashcards and glossary of key terms. Perfect for anyone preparing for the latest version of the CompTIA Network Exam N10-008, the Fifth Edition of CompTIA Network Study Guide Exam N10-008 is a must-have resource for network administrators seeking to enhance their skillset with foundational skills endorsed by industry and thought leaders from around the world.

A Beginner's Guide for Mastering Computer Networking Computer Networking School, 2020-11-21. If you want to know more about computer networking, then keep reading. Having a full understanding of our networks and how they work and even how we can get more features out of it and the security of our messages and data needs is important. Whether we focus on our individual home networks or we are trying to handle some of our business networks, we need to make sure that we understand the inner workings of a network and that we are able to utilize all of the parts to give us a competitive edge. Knowing more about your own network is going to be one of the best ways for us to keep things secure to help you pick the right options to handle the data we are working with and so much more. Moreover, inside this guidebook we are going to take a closer look at how to do this work as well. Have you ever been interested in learning about the setup of a network or how

the IP addresses and IP subnetting can work to enhance your network Have you been interested in learning how to handle the internet on your network and even why the cloud could be a good decision for you to use for your business On the other hand even a look at the different network cabling options hardware names and more that can bring your network together All of this and more will be discussed inside of this guidebook We have gone quite in depth so you can get a good understanding of the computer networking basics when we are done you will be prepared to handle some of the different parts of your network no matter how big or small Some of the topics that we will discuss in this guidebook include Some of the basics that beginners need to know about networking Learning more about the different hardware that your network needs The different options that you have with network cabling A look at IP addressing and IP subnetting Common networking protocols that we can focus on to keep our networks safe A look at how to handle the internet and some of the networking that we need to do online A look at the process of virtualization and how it works with the cloud to help us store our data and keep it safe An introduction to the Windows operating system and how it is going to be there to help us with many of our networking needs Networking for a beginner can seem like a complex tool to work with and often when we are first getting into the process we worry that it is going to be too hard to handle or that we will not be able to understand all of the parts that come with it Thanks to this guidebook and the different parts that come with it we will be able to learn all of the essentials that come with networking and will be able to use them for our needs as well Even if you have never studied computer network before you can learn it quickly So what are you waiting for Go to the top of the page and click Buy Now *Network+ Guide to Networks* Jill West,Tamara Dean,Jean Andrews,2015-04-23 Readers master the technical skills and industry know how required to begin an exciting career installing configuring and troubleshooting computer networks with the completely updated NETWORK GUIDE TO NETWORKS 7E Readers prepare for success on CompTIA s Network N10 006 certification exam with fully mapped coverage of all objectives including protocols topologies hardware network design and troubleshooting New interactive features cater to the grazing reader making essential information easily accessible and helping learners visualize high level concepts This edition introduces the latest developing technology with a fresh logical organization New OSI layer icons visually link concepts and the OSI model New and updated On the Job stories Applying Concepts activities Hands On and Case Projects encourage further exploration of chapter concepts This edition s emphasis on real world problem solving provides the tools to succeed in any computing environment Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **Studyguide for Computer Networking by Kurose, James F.** Cram101 Textbook Reviews,2013-05 Never HIGHLIGHT a Book Again Virtually all testable terms concepts persons places and events are included Cram101 Textbook Outlines gives all of the outlines highlights notes for your textbook with optional online practice tests Only Cram101 Outlines are Textbook Specific Cram101 is NOT the Textbook Accompnys 9780521673761 **CompTIA Network+ Deluxe Study Guide** Todd

Lammle,2015-05-04 NOTE The exam this book covered CompTIA Network Exam N10 006 was retired by CompTIA in 2018 and is no longer offered For coverage of the current exam CompTIA Network Exam N10 007 please look for the latest edition of this guide CompTIA Network Deluxe Study Guide Exam N10 007 4e 9781119432272 The CompTIA Network Deluxe Study Guide is your CompTIA Authorized resource for preparing for the Network exam N10 006 Bestselling author and networking Guru Todd Lammle guides you through 100% of all exam objectives Coverage includes network technologies installation and configuration media and topologies security and much more plus practical examples drawn from real world situations This Deluxe edition is packed with bonus study aids including an online interactive learning environment with practice exams flashcards and e book files in multiple formats Practice without buying expensive equipment and review exam material on the go CompTIA s Network certification covers advances in networking technology and reflects changes in associated job tasks The exam emphasizes network implementation and support and includes expanded coverage of wireless networking topics This guide is the ultimate in Network prep with expert insight clear explanation full coverage and bonus tools Review 100% of the Network exam objectives Get clear concise insight on crucial networking maintenance topics Study practical examples drawn from real world experience The CompTIA Network Deluxe Study Guide gives you the guidance and tools you need to prepare for the exam

### **CompTIA Network+ Study Guide with Online Labs** Todd Lammle,Jon Buhagiar,2020-10-27

Virtual hands on learning labs allow you to apply your technical skills using live hardware and software hosted in the cloud So Sybex has bundled CompTIA Network labs from Practice Labs the IT Competency Hub with our popular CompTIA Network Study Guide Fourth Edition Working in these labs gives you the same experience you need to prepare for the CompTIA Network Exam N10 007 that you would face in a real life network Used in addition to the book these labs in are a proven way to prepare for the certification and for work installing configuring and troubleshooting today s basic networking hardware peripherals and protocols Building on the popular Sybex Study Guide approach CompTIA Network Study Guide Exam N10 007 Online Lab Card Bundle the 4th edition of the Study Guide provides 100% coverage of the NEW Exam N10 007 objectives The book contains clear and concise information on the skills you need and practical examples and insights drawn from real world experience Inside networking guru Todd Lammle covers all exam objectives explains key topics offers plenty of practical examples and draws upon his own invaluable 30 years of networking experience to help you learn The Study Guide prepares you for Exam N10 007 the new CompTIA Network Exam Covers all exam objectives including network technologies network installation and configuration network media and topologies security and much more Includes practical examples review questions as well as access to practice exams and flashcards to reinforce learning Networking guru and expert author Todd Lammle offers invaluable insights and tips drawn from real world experience You will have access to a robust set of online interactive learning tools including hundreds of sample practice questions a pre assessment test bonus practice exams and over 100 electronic flashcards Prepare for the exam and enhance your career with the authorized

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**Complete Study Guide** Quentin Docter,Emmett Dulaney,Toby Skandier,2012-09-17 CompTIA Authorized fully updated Study Guide for the leading IT certification CompTIA A CompTIA A is the de facto certification for IT technicians Some vendors even require employees to achieve certification as part of their job training This book prepares you for both required exams 220 801 and 220 802 Totally updated to cover the 2012 exams this popular prep guide covers all the exam objectives Readers will also have access to additional study tools including the Sybex Test Engine with bonus practice exams electronic flashcards and a glossary of important terms in searchable PDF form Includes a coupon for 10% Off CompTIA Certification Exams A complete study guide to both exams required for CompTIA A certification the standard certification for software and hardware vendors and major technology companies Covers personal computer components laptops and portable devices operating systems including mobile printers and scanners networks security safety and environmental issues communication and professionalism Provides clear and concise information on crucial hardware and operating system maintenance and troubleshooting topics Offers practical examples real world insights exam highlights and end of chapter reviews CompTIA A Complete Study Guide prepares the diligent student to pass both parts of the A exam with confidence

### **Schaum's Outline**

**of Computer Networking** Ed Tittel,2002-07-15 Schaum's Outline of Computer Networking introduces the underlying concepts principles and terminology of computer networks Covering the full scope of material taught in computer networking courses this problem solved approach presents the different components of a network and shows how these components fit together as well as explaining the varied harmonizing functions needed for the interconnection of many heterogeneous computer networks

**CompTIA Network+ Review Guide** Bill Ferguson,2015-04-24 NOTE The exam this book covered CompTIA Network Exam N10 006 was retired by CompTIA in 2018 and is no longer offered For coverage of the current exam CompTIA Network Exam N10 007 please look for the latest edition of this guide CompTIA Network Review Guide Exam N10 007 4e 9781119432142 CompTIA Network Review Guide is your ideal study companion for preparing for the CompTIA Network exam N10 006 This concise review is the perfect companion to the CompTIA Network Study Guide and the CompTIA Network Deluxe Study Guide with full exam coverage organized by objective for quick review and reinforcement of key topics Each of the book's five parts is devoted to a specific domain area of the exam providing a focused review to bolster areas of weak understanding You get access to the Sybex test engine which includes two bonus practice tests electronic flashcards and a glossary of the most important terms you need to know on exam day CompTIA's Network certification

covers advances in networking technology and reflects changes in associated job tasks The exam places greater emphasis on network implementation and support and includes expanded coverage of wireless networking topics This Review Guide gives you the opportunity to identify your level of knowledge while there s still time to study and avoid exam day surprises Review network architecture and security Understand network operations and troubleshooting Gain insight into industry standards and best practices Get a firmer grasp of network theory fundamentals Reinforce your test prep with this concise guide

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