

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)

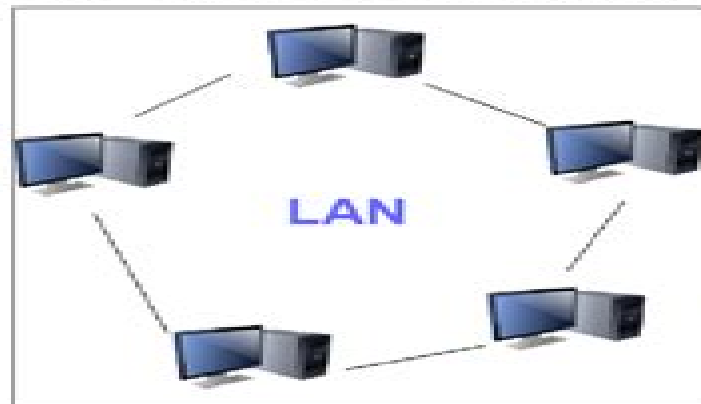


Figure1. LAN
(source: guru99.com)

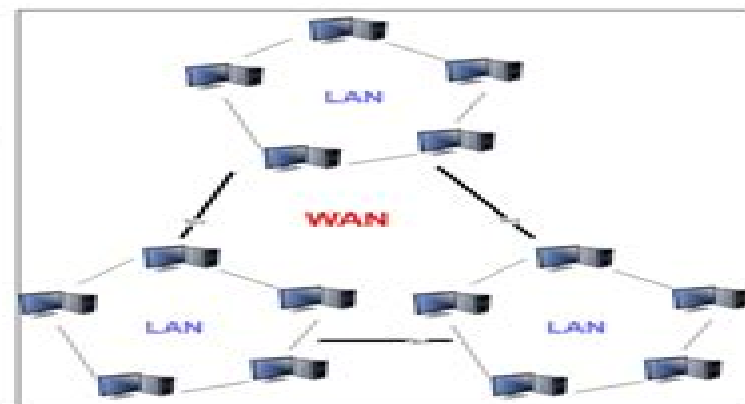
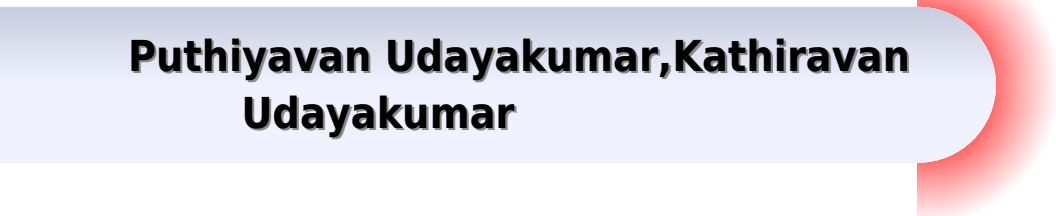


Figure1. WAN
(source: guru99.com)

Networking Study Guide

**Puthiyavan Udayakumar, Kathiravan
Udayakumar**



Networking Study Guide:

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Computer Networking: Network+ Certification Study Guide for N10-008 Exam Richie Miller, If you want to PASS the CompTIA Network Certification this book is for you The Network credential is the first certification that many IT professionals ever receive It has been around for over 25 years at this point and has been awarded to over a million applicants during that time and this matter because the certification has become well known by IT employers When you re looking for a job and you have the Network after your name most companies know that that s a real credential It s also a vendor neutral credential in the sense that it doesn t promote any particular hardware or software vendor and although the exams do recognize and reflect the prominence of Microsoft Windows in the corporate world they also include limited content on Apple operating systems Linux Android and Chrome OS Because Apple s operating systems only run on Apple hardware the exams do cover Macs iPhones and iPads It s fair to say that the CompTIA Network exams try to reflect the hardware and software that a technical support professional is likely to see in real life and that s part of its relevance and appeal In a nutshell the Network certification is the preferred performance based qualifying credential for technical support and IT operational roles according to the organization that manages it CompTIA The Network certification focuses on the day to day work of an IT technician in a business environment One reason the Network certification receives respect by IT employers is that it is accredited by international organizations The ISO or International Standards Organization is a worldwide standard setting group headquartered in Geneva and ANSI the American National Standards Institute is the USA s representative to ISO CompTIA has been accredited by ANSI for compliance with the ISO standard that applies to operating a certification body or organization and CompTIA must maintain certain quality levels in order to maintain that accreditation That s a bit of background on CompTIA and the Network certification But who might benefit from this credential Well anyone wanting to be hired on by a company that requires it certainly but more broadly anybody pursuing a career in tech support for example as a help desk analyst service desk analyst or a desktop support technician Field service techs will also find the credential helpful as will those who aspire to being a network engineer or a documentation specialist in IT This book will help you prepare for the latest CompTIA Network Certification exam code N10 008 BUY THIS BOOK NOW AND GET STARTED TODAY In this book you will discover Network Troubleshooting Fundamentals How to Establish a Theory of Cause How to Test the Theory Establish a Plan of Action How to Test Verify and Document the Solution How to Identify and Troubleshoot Cable Issues Fiber Optic Cables Tools How to use Ping ARP Traceroute How to Capture Traffic Wireless Troubleshooting WiFi Tools Common Wireless Issues Configuration Issues How to Troubleshoot Routing Issues How to use Simple Network Management Protocol How to use Netflow How to use Syslog

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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

AWS Certified Advanced Networking Official Study Guide Sidhartha Chauhan,James Devine,Alan Halachmi,Matt Lehwess,Nick Matthews,Steve Morad,Steve Seymour,2018-02-13 The official study guide for the AWS certification specialty exam The AWS Certified Advanced Networking Official Study Guide Specialty Exam helps to ensure your preparation for the AWS Certified Advanced Networking Specialty Exam Expert review of AWS fundamentals align with the exam objectives and detailed explanations of key exam topics merge with real world scenarios to help you build the robust knowledge base you need to succeed on the exam and in the field as an AWS Certified Networking specialist Coverage includes the design implementation and deployment of cloud based solutions core AWS services implementation and knowledge of architectural best practices AWS service architecture design and maintenance networking automation and more You also get one year of free access to Sybex s online interactive learning environment and study tools which features flashcards a glossary chapter tests practice exams and a test bank to help you track your progress and gauge your readiness as exam day grows near The AWS credential validates your skills surrounding AWS and hybrid IT network architectures at scale The exam assumes existing competency with advanced networking tasks and assesses your ability to apply deep technical knowledge to the design and implementation of AWS services This book provides comprehensive review and extensive opportunities for practice so you can polish your skills and approach exam day with confidence Study key exam

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CompTIA Network+ Study Guide Todd Lammle, 2011-02-25 Bestselling author Todd Lammle thoroughly covers this first revision of the CompTIA Network exam since 2005 Using his one of a kind conversational style Todd gives you clear and concise information on crucial networking topics through practical examples and insights drawn from his real world experience This Study Guide thoroughly covers all exam objectives for the CompTIA Network exam N10 004 including key topics such as network technologies media and topologies devices management tools and security Along with the book you get a CD ROM featuring a custom test engine with chapter review questions two practice exams flashcards and the book as a searchable PDF 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

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Diane Teare is a professional in the networking training and e-learning fields. She has more than 20 years of experience in designing, implementing, and troubleshooting network hardware and software, and has also been involved in teaching, course design, and project management. She has extensive knowledge of network design and routing technologies and is an instructor with one of the largest authorized Cisco Learning Partners.

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