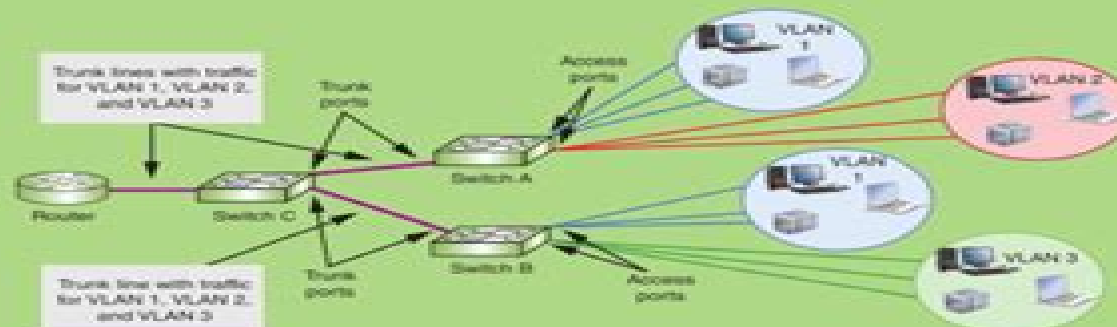


# Network+ Guide to Networks, 8<sup>th</sup> Edition

## Welcome to Network+ Guide to Networks

The CompTIA Network+ (N10-007) exam tests a student's knowledge and skills needed to manage, troubleshoot, and configure a wired and wireless network. Successful candidates must understand basic network design and technologies, including network limitations and weaknesses. Network professionals must be able to maintain documentation, configure network devices and protocols, and manage security. In addition, the candidate should be familiar with enterprise technologies including virtualization, cloud computing, and mobile devices.



NETWORKING  
CONCEPTS

NETWORK  
INFRASTRUCTURE

NETWORK  
OPERATIONS

NETWORK  
SECURITY

NETWORK  
TROUBLESHOOTING  
AND TOOLS

## What's new in the CompTIA Network+ (N10-007) certification exam?

- More emphasis on virtualization, cloud computing, remote access, and security
- Focus on practical skills, as well as Data link layer and Network layer technologies
- More coverage of emerging technologies such as IoT, NFC, and Ant+
- Removal of legacy technologies

# Network Guide To Networks Chapter 2

**Kevin Wallace**



## Network Guide To Networks Chapter 2:

*Network+ Training Guide* Drew Bird, Mike Harwood, 2002 Annotation The authoritative solution to passing the Network exam Has CompTIA's Authorized Quality Curriculum CAQC stamp of approval Features exam tips study strategies review exercises case studies practice exams ExamGear testing software and more This exam certifies that candi20020822s know the layers of the OSI model can describe the features and functions of network components and have the skills needed to install configure and troubleshoot basic networking hardware peripherals and protocols The Network exam developed by CompTIA is only two years old but already is held by 50 000 individuals Readers preparing for this exam will find our Training Guide series to be an indispensable self study tool This book is their one stop shop because of its teaching methodology the accompanying ExamGear testing software and Web site support at [www.quepublishing.com](http://www.quepublishing.com) certification Drew Bird MCNI MCNE MCT MCSE MCP I has been working in the IT industry for over 12 years instructing for the past five Drew has completed technical training and consultancy assignments for a wide variety of organizations including the Bank of England The London Stock Exchange Iomega and the United Nations Mike Harwood MCT MCSE A has 6 years experience in IT As well as training and authoring technical courseware he currently acts as a system manager for a multi site network and performs consultancy projects for a computer networking company As a team they have written Network Exam Cram Coriolis and Network Exam Prep Coriolis Computer Networking: Network+ Certification Study Guide for N10-008 Exam 4 Books in 1 Richie Miller, If you want to PASS the CompTIA Network Certification this book is for you BUY THIS BOOK NOW AND GET STARTED TODAY In this book you will discover Network Concepts and Protocols CompTIA Network Exam Information OSI Model Network Operations Encapsulation and the OSI Model Network Protocols and Port Numbers DHCP DNS NTP SQL Database Protocols TCP UDP Protocols Binary and Hexadecimal Numbers How to Convert Decimal to Binary IPv4 Addressing Fundamentals Classless Classfull Addressing IP Address Types How to Subnet Networks IPv6 Address Fundamentals IPv6 SLAAC IPv6 DHCP Network Address Translation Dynamic Host Configuration Protocol Domain Name System Ethernet Cabling Coax Cabling and Cable Termination Fiber Optics Multiplexing Fiber Optics Ethernet Fundamentals CSMA CD Duplex and Speed Ethernet Frame Fundamentals Ethernet Layer 2 Operation Spanning Tree Protocol VLANs and Port Aggregation How to Route IP Traffic Address Resolution Protocol How to Send Ping to Default Gateway How to Build Routing Tables Wireless Networking Fundamentals Wireless 802.11 Protocols Wireless Ethernet Operation Wireless Topologies and Management Wireless Encryption Cellular Wireless Layer 2 Devices and Services Traffic Shaping Neighbor Device Discovery Load Balancer Fundamentals Firewall Fundamentals VoIP SCADA Systems Network Monitoring Layer 2 Errors Facilities Monitoring Collecting Network Monitoring Baselineing Network Security Fundamentals Threats Vulnerabilities Exploits How to Reduce Threat Exposure Defense in Depth Authentication Authorization and Accounting Multifactor Authentication Network Access Control Security Assessments How to Assess Risk Human Technical Exploits WiFi Attacks Rogue DHCP

Servers Password Attacks How to Secure Layer 2 Rogue DHCP Servers Dynamic ARP Inspection How to Secure Layer 3 Layer 4 How to Secure Layer 7 Password Wireless Security Geofencing Remote Access Security Virtual Private Networks Remote Desktop Virtual Desktops Connections Network Management Options Video Surveillance Asset Tracking Network Topologies Types Blank Area Networks WAN Technologies Virtualized Networks Data Center Networks Software Defined Networking SAN Cloud Computing Cloud Services 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 How to Document IT Procedures and Plans Security and Device Policies Data Center Diagrams MDF IDF Diagrams Logical Network Diagrams Disaster Recovery Backups and Snapshots Service Level Agreement Fundamentals BUY THIS BOOK NOW AND GET STARTED TODAY

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*CompTIA Network+ N10-005 Cert Guide*  
Kevin Wallace, 2011-11-17 Learn prepare and practice for CompTIA Network N10 005 exam success with this CompTIA Authorized Cert Guide from Pearson IT Certification a leader in IT Certification learning and a CompTIA Authorized Platinum Partner This is the eBook version of the print title Note that the eBook does not provide access to the practice test software that accompanies the print book Access to the personal video mentoring is available through product registration at Pearson IT Certification or see instructions in back pages of your eBook Master Network exam topics Assess your knowledge with chapter ending quizzes Review key concepts with exam preparation tasks Limited Time Offer Buy CompTIA Network N10 005 Authorized Cert Guide and receive a 10% off discount code for the CompTIA Network N10 005 exam To receive your 10% off discount code 1 Register your product at [pearsonITcertification.com](http://pearsonITcertification.com) register 2 When prompted enter ISBN number 9780789748218 3 Go to your Account page and click on Access Bonus Content CompTIA Network N10 005 Authorized Cert Guide is a best of breed exam study guide Best selling author and expert instructor Kevin Wallace shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills Material is presented in a concise manner focusing on increasing your understanding and retention of exam topics The book presents you with an organized test preparation routine through the use of proven series elements and techniques Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly Review questions help you assess your knowledge and a final preparation chapter guides you through tools and

resources to help you craft your final study plan The book also contains more than three hours of personal video mentoring from the author Well regarded for its level of detail assessment features and challenging review questions and exercises this authorized study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time The authorized study guide helps you master all the topics on the Network exam including Computer networks and the OSI model Network components Ethernet IP addressing Routing traffic Wide Area Networks WANs Wireless LANs Network performance Command line utilities Network management Network security Troubleshooting Kevin Wallace CCIE No 7945 is one of the most prolific and best selling authors in the networking industry He is a certified Cisco instructor and he holds multiple certifications including CCNP CCNP Voice CCNP Security and CCDP in addition to multiple security and voice specializations With networking experience dating back to 1989 and computer experience dating back to 1982 Kevin is a Senior Technical Instructor for SkillSoft Kevin has been a network design specialist for the Walt Disney World Resort and a network manager for Eastern Kentucky University

*CompTIA Network+ Study Guide* Todd Lammle, 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 Study Guide Exam N10 007 4e 9781119432258 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 006 Inside Todd covers all exam objectives 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 006 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 Prepare for the exam and enhance your career with the CompTIA Authorized CompTIA Network Study Guide Third Edition

**Network+ Study Guide** David Groth, Toby Skandier, 2006-02-20 Here s the book you need to prepare for CompTIA s updated Network exam N10 003 This revised edition of the best selling Network Study Guide was developed to meet the exacting requirements of today s certification candidates In addition to the focused and accessible instructional approach that has earned Sybex the reputation as the leading publisher for certification self study guides this book provides Clear and concise information on networking essentials Practical examples and insights drawn from real world experience Leading edge exam preparation software including a test engine and electronic flashcards You ll also find authoritative coverage of key exam topics including Media and Topologies Protocols and Standards Network Implementation Network Support Reviewed and approved as CompTIA

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**CompTIA Network+ N10-006 Cert Guide** Keith Barker, Kevin Wallace, 2015 This approved study guide helps you master topics on the CompTIA Network N10 006 exam including the following Computer network fundamentals The OSI model and TCP IP stack Media types infrastructure components and network devices Ethernet technology IPv4 and IPv6 addresses Routing IP traffic with dynamic routing protocols DNAT SNAT and PAT Multicast routing Wide Area Networks WANs Wireless LANs Network optimization and QoS Windows and UNIX command line tools for network administration and troubleshooting Network security Troubleshooting common Layer 2 Layer 3 and wireless networking issues CompTIA Network N10 006 Cert Guide contains proven study features that enable you to succeed on the exam the first time Best selling authors and expert instructors Keith Barker and Kevin Wallace share preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills essential for successful completion of the performance based testing items on the exam This complete CompTIA approved study package includes the following A test preparation routine proven to help you pass the exams approved by CompTIA Clearly defined chapter learning objectives covering all N10 006 exam topics Chapter ending review questions and exam preparation exercises which help you drill on key concepts you must know thoroughly The powerful Pearson IT Certification Practice Test software complete with hundreds of well reviewed exam realistic questions customization options and detailed performance reports 40 performance based practice question exercises to help you prepare for the hands on exam questions An 80% discount off the Premium Edition eBook and Practice Test a 40 value A free copy of the CompTIA Network Simulator Lite software complete with meaningful lab exercises that help you hone your hands on skills More than 60 minutes of video mentoring from the author A final preparation chapter that guides you through tools and resources to help you craft your review and test taking strategies An Exam Essentials appendix that quickly recaps all major chapter topics for easy reference both in print and interactive digital format A key terms Glossary in both print and on the DVD which acts as an interactive flash card application Study plan suggestions and templates to help you organize and optimize your study time A 10% exam discount voucher a 27 value Well regarded for its level o

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**CompTIA Network+ N10-007 Cert Guide** Anthony J. Sequeira, 2018-02-12 This is the eBook version of the print title Note that only the Amazon Kindle version or the Premium Edition eBook and Practice Test available on the Pearson IT Certification web site come with the unique access code that allows you to use the practice test software that accompanies this book All other eBook versions do not provide access to the practice test software that accompanies the print book Access to the companion web site is available through product registration at Pearson IT Certification or see instructions in back pages of your eBook Learn prepare and practice for CompTIA Network N10 007 exam success with this CompTIA approved Cert Guide from Pearson IT Certification a leader in IT Certification learning and a CompTIA Authorized Platinum Partner Master CompTIA Network N10 007 exam topics Assess your knowledge with chapter ending quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions Learn from more than 60 minutes of video mentoring CompTIA



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that can span regions teams and silos of all kinds The social and environmental challenges we face today are not only complex they are also systemic and structural and have no obvious solutions They require diverse combinations of people organizations and sectors to coordinate actions and work together even when the way forward is unclear Even so collaborative efforts often fail because they attempt to navigate complexity with traditional strategic plans created by hierarchies that ignore the way people naturally connect By embracing a living systems approach to organizing impact networks bring people together to build relationships across boundaries leverage the existing work skills and motivations of the group and make progress amid unpredictable and ever changing conditions As a powerful and flexible organizing system that can span regions organizations and silos of all kinds impact networks underlie some of the most impressive and large scale efforts to create change across the globe David Ehrlichman draws on his experience as a network builder interviews with dozens of network leaders and insights from the fields of network science community building and systems thinking to provide a clear process for creating and developing impact networks Given the increasing complexity of our society and the issues we face our ability to form grow and work through networks has never been more essential Networks are the organizing system of the future and this book is your guide Philip Li President and CEO Robert Sterling Clark Foundation

CCENT/CCNA ICND1 640-822 Official Cert Guide Wendell Odom,2012 This preparation guide offers complete coverage of the CCNA 640 802 exam including all INTRO and ICND topics CompTIA Network+ Certification Guide Glen D. Singh,Rishi Latchmepersad,2018-12-19 This is a practical certification guide covering all the exam topics in an easy to follow manner backed with self assessment scenarios for better preparation Key FeaturesA step by step guide to give you a clear understanding of the Network CertificationLearn about network architecture protocols security and network troubleshootingConfidently ace the N10 007 exam with the help of practice tests Book Description CompTIA certified professionals have always had the upper hand in the information technology industry This book will be your ideal guide to efficiently passing and achieving this certification Learn from industry experts and implement their practices to resolve complex IT issues This book revolves around networking concepts where readers will learn topics like network architecture security network monitoring and troubleshooting This book will not only prepare the readers conceptually but will also help them pass the N10 007 exam This guide will also provide practice exercise after every chapter where readers can ensure their concepts are clear By the end of this book readers will leverage this guide and the included practice questions to boost their confidence in appearing for the actual certificate What you will learnExplain the purpose of a variety of networking concepts and implement them appropriatelyUnderstand physical security and common attacks while securing wired and wireless networksUnderstand the fundamentals of IPv4 and IPv6Determine and explain the appropriate cabling device and storage technologiesUnderstand network troubleshooting methodology and appropriate tools to support connectivity and performanceUse best practices to manage the network determine policies and ensure business continuityWho this book is for

This book is ideal for readers wanting to pass the CompTIA Network certificate. Rookie network engineers and system administrators interested in enhancing their networking skills would also benefit from this book. No prior knowledge on networking would be needed.

*Azure Networking* Rob Botwright, 2024 Dive into the world of Azure Networking with our comprehensive book bundle *Azure Networking Command Line Mastery from Beginner to Architect*. Whether you're just starting your journey or aiming to become an expert architect, this bundle has everything you need to succeed. With four in-depth books covering all levels of expertise, you'll learn how to harness the power of the Command Line Interface (CLI) to master Azure networking like never before.

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*CompTIA Network+ Certification Guide (Exam N10-008)* Eithne Hogan, 2023-07-04 A step-by-step guide to acing the CompTIA Network certification Exam N10-008. **KEY FEATURES:** Develop confidence and proficiency in various networking tasks and responsibilities. Gain a comprehensive understanding of essential network concepts, including networks, security, and cloud computing. Acquire the knowledge and skills necessary to effectively apply troubleshooting methodologies in network environments.

**DESCRIPTION:** The CompTIA Network Certification Guide Exam N10-008 is designed to assist you in learning and mastering the content of the Network exam while preparing for CompTIA's valuable network certification. The main focus of this book revolves around the duties and responsibilities associated with being an entry-level network administrator. It provides you with the essential set of skills required to proficiently handle tasks such as installing, configuring, maintaining, and monitoring network hardware and software. Additionally, it effectively teaches you how to utilize troubleshooting tools to resolve network issues. The book also places significant emphasis on the importance of network security within the broader context of network operations. By the end of the book, you will have acquired a comprehensive

understanding of the Network exam content and will be well prepared to obtain CompTIA's valuable network certification

**WHAT YOU WILL LEARN** Gain a comprehensive understanding of the OSI Model and its relevance in networking Learn how to effectively work with IP addressing and subnetting for efficient network configuration Adhere to business plans policies and procedures to ensure smooth network administration Learn about network performance monitoring techniques and strategies Explore security concepts vulnerabilities threats and attacks and learn network hardening techniques to safeguard against potential risks

**WHO THIS BOOK IS FOR** This book is designed for individuals who aspire to pursue a rewarding career in network administration It caters to those who are interested in entering the field and aim to acquire the essential knowledge and skills necessary for success Additionally it serves as a valuable resource for emerging Network Support Technicians who are currently working in or transitioning into this role

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Network+ Study Guide & Practice Exams Robert Shimonski, 2005-06-17 The Network Study Guide covers all the objectives on the CompTIA exam including the features and functions of networking components and ensuring that readers have the knowledge and skills needed to install configure and troubleshoot basic networking hardware protocols and services It covers exam topics such as media and topologies protocols and standards network implementation and network support as well as new exam topics on technologies such as wireless networking and Ethernet Complete coverage of the new 2005 exam written from the ground up Competitively priced with additional interactive exams online Popular exam being revised for first time since 2001

*Networking, the First Report and Directory* Jessica Lipnack, Jeffrey Stamps, 1982

The Complete Guide to Networking and Network+ Michael W. Graves, 2006 Prepare to pass CompTIA's new Network Exam This straightforward no nonsense guide to installing configuring and troubleshooting computer networks not only prepares readers to pass the certification exam but serves to provide information on basic computer technology to the networking professional as well Topics are thoughtfully organized in accordance with CompTIA's test objectives taking readers through the seven layers of OSI so readers learn how information starts at one computer and ends up at another From there hands on coverage of how networks are set up and configured is provided which transports readers out of the realm of theory and into the real world of networking

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