

Professor Messer's CompTIA Network+ N10-005 Study Guide

The OSI Model

What People Seem To Need Data Processing

Layer 1: Physical	Messages are sent through Modem, Router, Network
Layer 2: Data Link	Encoding and decoding (S/W/F/W)
Layer 3: Network	Communication between Network (Network protocols, Routing protocols)
Layer 4: Transport	The "lowest" layer (TCP/UDP) (S/W/F/W) (S/W/F/W)
Layer 5: Session	The middle layer (S/W/F/W) (S/W/F/W) (S/W/F/W)
Layer 6: Presentation	The middle layer (S/W/F/W) (S/W/F/W) (S/W/F/W)
Layer 7: Application	The middle layer (S/W/F/W) (S/W/F/W) (S/W/F/W)

Binary Conversion

2 ¹⁰	2 ⁹	2 ⁸	2 ⁷	2 ⁶	2 ⁵	2 ⁴	2 ³	2 ²	2 ¹	2 ⁰	2 ⁻¹	2 ⁻²	2 ⁻³	2 ⁻⁴	2 ⁻⁵	2 ⁻⁶	2 ⁻⁷	2 ⁻⁸	2 ⁻⁹	2 ⁻¹⁰
1,024	512	256	128	64	32	16	8	4	2	1	0.5	0.25	0.125	0.0625	0.03125	0.015625	0.0078125	0.00390625	0.001953125	0.0009765625

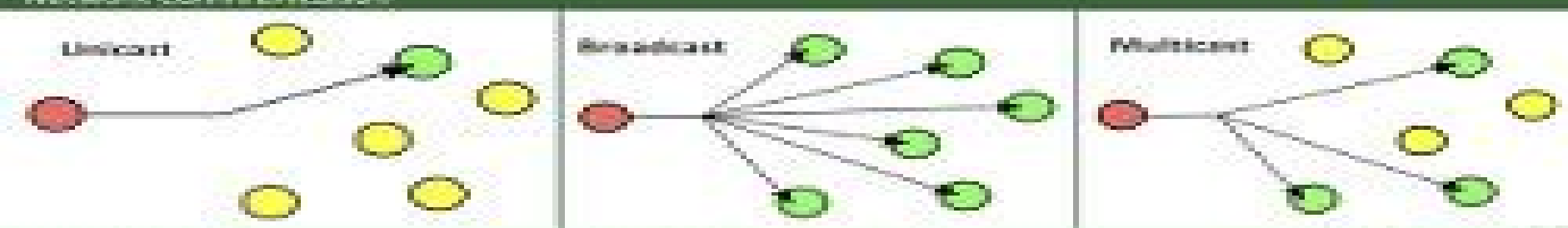
Subnet Classes

Class	Address Range	Number of Subnets	Number of Hosts per Subnet	Default Subnet Mask	Default Broadcast Address	Default Gateway Address
Class A	1.0.0.0 - 127.0.0.0	8	16	255.255.255.0	255.255.255.255	255.255.255.0
Class B	128.0.0.0 - 191.255.255.255	16	16	255.255.255.0	255.255.255.255	255.255.255.0
Class C	192.0.0.0 - 223.255.255.255	24	8	255.255.255.0	255.255.255.255	255.255.255.0
Class D (Multicast)	224.0.0.0 - 239.255.255.255	Not defined	Not defined	Not defined	Not defined	Not defined
Class E (Reserved)	240.0.0.0 - 255.255.255.255	Not defined	Not defined	Not defined	Not defined	Not defined

IPv4 Subnet Addressing

IP Address Range	Number of Subnets	Default Subnet Mask	Default Broadcast Address	Default Gateway Address
10.0.0.0 - 10.255.255.255	256	255.255.255.0	10.255.255.255	10.255.255.1
172.16.0.0 - 172.31.255.255	1,024	255.255.255.0	172.31.255.255	172.31.255.1
192.168.0.0 - 192.168.255.255	256	255.255.255.0	192.168.255.255	192.168.255.1

Network Communication



The TCP/IP Model

Application	HTTP, SMTP, FTP, DNS, SSH, Telnet, POP3, IMAP, SNMP, LDAP, RDP, etc.
Transport	TCP, UDP
Network	IPv4, IPv6, ICMP, IGMP
Link	PPP, HDLC, etc.

CIDR (Classless Inter-Domain Routing)

Class	Address Range	Number of Subnets	Default Subnet Mask	Default Broadcast Address	Default Gateway Address
Class A	1.0.0.0 - 127.0.0.0	8	255.255.255.0	255.255.255.255	255.255.255.0
Class B	128.0.0.0 - 191.255.255.255	16	255.255.255.0	255.255.255.255	255.255.255.0
Class C	192.0.0.0 - 223.255.255.255	24	255.255.255.0	255.255.255.255	255.255.255.0
Class D (Multicast)	224.0.0.0 - 239.255.255.255	Not defined	Not defined	Not defined	Not defined
Class E (Reserved)	240.0.0.0 - 255.255.255.255	Not defined	Not defined	Not defined	Not defined

Comptia Network Study Guide N10 005

Craig Zacker



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most important concepts in contemporary networking such as TCP IP Ethernet wireless transmission and security New features include a chapter on virtual networking and remote access as well as a stronger emphasis on security with added coverage on site to site and client to site security security threats and scanning tools KEY FEATURES Chapter Objectives Each chapter begins with a list of the concepts to be mastered within that chapter This list provides you with both a quick reference to the chapter s contents and a useful study aid Illustrations and Tables Numerous illustrations of network media methods of signaling protocol behavior hardware topology software screens peripherals and components help you visualize common network elements theories and concepts In addition the many tables included provide details and comparisons of both practical and theoretical information Chapter Summaries Each chapter s text is followed by a summary of the concepts introduced in that chapter These summaries provide a helpful way to recap and revisit the ideas learned Key Terms Here you ll find the essential terms introduced in the chapter These are compiled into a glossary at the end of the book that you can reference as a refresher before taking the exam Review Questions The review questions reinforce the ideas introduced in each chapter Answering these questions will ensure that you have mastered the important concepts and provide valuable practice for taking CompTIA s Network exam

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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+ 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 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+ Certification Study Guide, 5th Edition (Exam N10-005) Glen E. Clarke, 2012-01-31 The best fully integrated study system available for Exam N10 005 With hundreds of practice questions and hands on exercises CompTIA Network Certification Study Guide Fifth Edition covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for exam N10 005 Exam Readiness checklist you re ready for the exam when all objectives on the list are checked off Inside the Exam sections highlight key exam topics covered Two Minute Drills for quick review at the end of every chapter Simulated exam questions match the format tone topics and difficulty of the real exam Covers all the exam topics including Basic Network Concepts Network Protocols and Standards Networking Components TCP IP Fundamentals TCP IP Utilities Configuring Network Services Wireless Networking Remote Access and VPN Connectivity Wide Area Network Technologies Implementing a Network Maintaining and Supporting a Network Network Security Troubleshooting the Network Electronic content includes Complete MasterExam practice testing engine featuring One full practice exam Detailed answers with explanations Score Report performance assessment tool CertCam video training from the author Glossary with key terms with free online registration Bonus downloadable MasterExam practice test **CompTIA Network+ N10-005 Exam Cram** Emmett Dulaney, Michael Harwood, 2011-12-23 Prepare for CompTIA Network N10 005 exam success with this CompTIA Authorized Exam Cram 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 Limited Time Offer Buy CompTIA Network N10 005 Authorized Exam Cram and receive a 10% off discount code for the CompTIA Network N10 005 exam To receive your 10% off discount code Register your product at pearsonITcertification.com register When prompted enter ISBN number 9780789748218 Go to your Account page and click on Access Bonus Content CompTIA Network N10 005 Authorized Exam Cram Fourth Edition is the perfect study guide to help you pass CompTIA s new Network N10 005 exam It provides coverage and practice questions for every exam topic including substantial new coverage of security wireless and voice networking Covers the critical information you ll need to know to score higher on your Network N10 005 exam Understand modern network topologies protocols and models Work effectively with DNS and DHCP Monitor and analyze network traffic Understand IP addressing routing and switching Perform basic router switch installation and configuration Manage networks and utilize basic optimization techniques Plan and implement a small office home office network Master essential LAN WAN and wireless technologies Install configure

secure and troubleshoot wireless networks Safeguard networks with VPNs authentication firewalls and security appliances Troubleshoot common problems with routers switches and physical connectivity EMMETT DULANEY Network A Security is a columnist for CertCites an associate professor at Anderson University and the author of numerous certification guides including CompTIA A Complete Study Guide and CompTIA Security Study Guide MICHAEL HARWOOD MCSE A Network Server Linux has more than 14 years of IT experience in roles including network administrator instructor technical writer website designer consultant and online marketing strategist He regularly discusses technology topics on Canada's CBC Radio

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