



# CCNA R&S: Introduction to Networks

## Chapter 9:

## Subnetting IP Networks

*Frank Schneemann*

### Chapter 9: Subnetting IP Networks

Upon completion of this chapter you will be able to:

- Explain why routing is necessary for hosts on different subnets to communicate.
- Describe IP as a communication protocol used to identify a single device on a network.
- Given a network and subnet mask, calculate the number of host addresses available.
- Calculate the necessary subnet mask in order to accommodate a given number of hosts.
- Describe the benefits of variable length subnet masking (VLSM).
- Design and implement a hierarchical addressing scheme.
- Explain how IPv6 address assignments are implemented in a business network.

### Subnetting IP Networks



In this chapter, you will be learning how devices can be grouped into subnets, or smaller network groups, from a large network.

# Cisco Netacad Chapter 9 Test Answers

**Cisco Networking Academy**



## **Cisco Netacad Chapter 9 Test Answers:**

**Scaling Networks Companion Guide** Cisco Networking Academy, Cisco Networking Academy Program, 2014 This is the only Cisco authorized companion guide to the official Cisco Networking Academy Scaling Networks course for the CCNA Routing and Switching curriculum An indispensable resource for hundreds of thousands of Cisco Networking Academy students worldwide this portable desk reference is ideal for anytime anywhere take home study and reference Fully aligned to the online course chapters it offers additional book based pedagogy to reinforce key concepts enhance student comprehension and promote retention Using it students can focus scarce study time organize review for quizzes and exams and get the day to day reference answers they're looking for

**Network Basics Companion Guide** Cisco Networking Academy, 2013-10-28 Network Basics Companion Guide is the official supplemental textbook for the Network Basics course in the Cisco Networking Academy CCNA Routing and Switching curriculum Using a top down OSI model approach the course introduces the architecture structure functions components and models of the Internet and computer networks The principles of IP addressing and fundamentals of Ethernet concepts media and operations are introduced to provide a foundation for the curriculum By the end of the course you will be able to build simple LANs perform basic configurations for routers and switches and implement IP addressing schemes The Companion Guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time The book's features help you focus on important concepts to succeed in this course Chapter Objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key Terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive Glossary with more than 250 terms Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer How To Look for this icon to study the steps you need to learn to perform certain tasks Interactive Activities Reinforce your understanding of topics with more than 50 different exercises from the online course identified throughout the book with this icon Videos Watch the videos embedded within the online course Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters Hands on Labs Work through all 68 course labs and Class Activities that are included in the course and published in the separate Lab Manual

**Cisco Networking Academy Program** Vito Amato, 1999 Cisco Systems Networking Academy Second Year Companion Guide is a companion and supplement to the third and fourth semesters of Cisco Systems Networking Academy classes This book will support and reinforce the online training materials for the Cisco Network Academy Program along with topics pertaining to CCNA certification The second year course focuses on the practical applications of the topics covered in the first year course The instructional materials for the Second Year

Companion follows the instructional style and format that Cisco has created for the Cisco Networking Academy Program. Developed with and approved by Cisco, the Cisco Systems Networking Academy Program Second Year Companion Guide will provide information and presentation unmatched by any other publisher.

**IT Essentials** Cisco Networking Academy, Kathleen Czurda-Page, Laura Kier, 2013. IT Essentials PC Hardware and Software Companion Guide Fifth Edition. IT Essentials PC Hardware and Software Companion Guide Fifth Edition supports the Cisco Networking Academy IT Essentials PC Hardware and Software version 5 course. The course is designed for Cisco Networking Academy students who want to pursue careers in IT and learn how computers work, how to assemble computers, and how to safely and securely troubleshoot hardware and software issues. As CompTIA Approved Quality Content, the course also helps you prepare for the CompTIA A certification exams 220 801 and 220 802. CompTIA A 220 801 covers the fundamentals of computer technology, installation, and configuration of PCs, laptops, related hardware, and basic networking. CompTIA A 220 802 covers the skills required to install and configure PC operating systems and configure common features such as network connectivity and email for Android and Apple iOS mobile operating systems. Students must pass both exams to earn the CompTIA A certification. The features of the Companion Guide are designed to help you study and succeed in this course.

**Chapter Objectives** Review core concepts by answering the focus questions listed at the beginning of each chapter. **Key terms** Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context. **Course section numbering** Follow along with the course heading numbers to easily jump online to complete labs, activities, and quizzes referred to within the text. **Check Your Understanding** Questions and Answer Key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes. **Glossary** in the back of the book to define **Key Terms**. The lab icon in the Companion Guide indicates when there is a hands-on Lab or Worksheet to do. The Labs and Worksheets are compiled and published in the separate book **IT Essentials PC Hardware and Software Lab Manual Fifth Edition**. With more than 1300 pages of activities, including Windows 7, Windows Vista, and Windows XP variations covered in the CompTIA A exam objectives, practicing and performing these tasks will reinforce the concepts and help you become a successful PC technician.

**Introduction to Networks** Cisco Networking Academy Program, 2014. Introduction to Networks Companion Guide is the official supplemental textbook for the Introduction to Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum. The course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. The Companion Guide is designed as a portable desk reference to use anytime, anywhere, to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course.

**Chapter Objectives** Review core

concepts by answering the focus questions listed at the beginning of each chapter Key Terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive Glossary with more than 195 terms Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer Related Title Introduction to Networks Lab Manual ISBN 10 1 58713 312 1 ISBN 13 978 1 58713 312 1 How To Look for this icon to study the steps you need to learn to perform certain tasks Interactive Activities Reinforce your understanding of topics with more than 50 different exercises from the online course identified throughout the book with this icon Videos Watch the videos embedded within the online course Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters Hands on Labs Work through all 66 course labs and Class Activities that are included in the course and published in the separate Lab Manual This book is part of the Cisco Networking Academy Series from Cisco Press Books in this series support and complement the Cisco Networking Academy curriculum **Cisco Networking Academy Program** Cisco Systems, Inc,2004 Additional exercises and activities for reinforcement Authored by the course developers Opportunity to begin the professional practice of maintaining a journal of networking knowledge

**Guide to TCP/IP** Laura A. Chappell,Ed Tittel,2004 This text provides a comprehensive hands on look at TCP IP It includes coverage of the latest TCP IP stack implementations in Windows XP 2003 and 2000 as well as coverage of Ipv6 and SMTP Practice skills as they are learned with extensive hands on projects in depth case projects and review questions in each chapter Accompanying CD ROM contains a trial version of EtherPeek protocol analyzer software and sample protocol traces giving users direct hands on practice diagnosing protocol traces *CCNA Guide to Cisco Routing* Kurt Hudson,Kelly Caudle,2000 Presenting material covered on the CCNA certification exam this study guide includes numerous review questions and case projects to reinforce the hands on skills needed for certification and success The CD ROM features 50 question CoursePrep exam preparation software and an optional lab manual provides extensive lab exercises and hands on projects *Cti Higher Edn* Cengage Learning Australia,Thomson Course Technology,2001-12

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