

The Subnet Training Guide For Students And Instructors V3 0

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The Subnet Training Guide is over 100 pages and divided into 6 chapters. Table of Contents Chapter 1 Understanding IP addressing and Subnetting (27 examples) 1.0 Introduction 1.1 Understanding IP addressing and Binary numbers 1.2 IP Address Classes and Subnet Masks 1.3 Understanding Subnetting 1.4 Understanding VLSM 1.5 Chapter 1 Summary

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The tutorial on subnetting in this guide is based on CIDR, which enables a great deal of flexibility in the size of the address pools you assign to each subnet. In fact, you don't have to limit your system to the use of just one subnet mask. You can assign different sized address pools to each subnet.

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Subnet Mask . Perhaps the most recognizable aspect of subnetting is the subnet mask. Like IP addresses, a subnet mask contains four bytes (32 bits) and is often written using the same dotted-decimal notation. For example, here's a common subnet mask in its binary representation:

IP Tutorial: Subnet Mask and Subnetting

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Table 1 – Default subnet mask & range of each class. Class A addresses begin with a 0 bit. Therefore, all addresses from 1.0.0.0 to 126.255.255.255 belong to class A (1 = 0 000 0001; 126 = 0 111 1110). The 0.0.0.0 address is reserved for default routing and the 127.0.0.0 address is reserved for loopback testing so they don't belong to any class.

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A subnet mask defines which chunk of an IP address is the host ID and which portion is the subnet network ID. This trick is accomplished using a subnet mask, another 32-bit number. A subnet mask works like a filter with the mask identifying the IP address bits that represent the network ID with a 1, and the bits that represent the host ID with a 0.

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The long way is the logical way to do it. First, we write out the IP address on the subnet mask in binary notation and we put in the line where the subnet mask is. From that, we can figure out what the network address is which is 198.22.45.128. Then we figure out what the broadcast addresses. That would be all of our host bits.

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After using the five bits for subnetting, you are left with 11 bits for host addresses. This allows each subnet so have 2048 host addresses (2¹¹), 2046 of which could be assigned to devices. Note: In the past, there were limitations to the use of a subnet 0 (all subnet bits are set to zero) and all ones subnet (all subnet bits set to one ...

Annotation Expert Insight. Both authors are Microsoft-certified Windows XP specialists. Comprehensive. Organized according to the actual exam objectives, our Training Guide series features Exam Tips, Study Strategies, Step-by-Step Exercises, Case Studies, Summaries & Review Breaks, Review Questions, Exam Questions, Hands-On Exercises, Guided Practice Exercises, Fast Facts, etc. - providing readers with the most effective learning tools in the marketplace. Innovative. Our Training Guide series features our acclaimed Exam Gear software - enhancing our readers' learning experience by providing them with powerful test simulation. About the Author: Robert L. Bogue, MCSE, CNA, A+, Network+, I-Net+, Server+, e-Biz+, IT Project+, and CDIA+, has contributed to over 100 book projects, numerous magazine articles, and reviews. His broad experience has led him to networking and integration topics as well as software development. nbsp; Gord Barker, MCSE, currently works as a Senior Consultant for Microsoft Canada Co. in Edmonton, Alberta, Canada. He worked with Telus to complete the largest single rollout of Windows 2000 to occur prior to the product launch. He currently works with large customers to deploy Microsoft technology.

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The training guide contains everything to completely prepare for the "Interconnecting with Microsoft TCP/IP on Microsoft Windows NT 4.0" exam.

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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/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).

MCSE candidates can practice taking the TCP/IP exam by using the software provided in this book/CD-ROM. The guide offers solid, objective-based content, along with sample questions and exercises to allow the reader to learn the information in depth.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Introducing Routing and Switching in the Enterprise, CCNA Discovery Learning Guide is the official supplemental textbook for the Introducing Routing and Switching in the Enterprise course in the Cisco® Networking Academy® CCNA® Discovery curriculum version 4. The course, the third of four in the new curriculum, familiarizes you with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, IP Telephony requirements, and security. It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol. Hands-on exercises include configuration, installation, and troubleshooting. The Learning Guide'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. The Glossary defines each key term. Summary of Activities and Labs—Maximize your study time with this complete list of all associated 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. Challenge Questions and Activities—Apply a deeper understanding of the concepts with these challenging end-of-chapter questions and activities. The answer key explains each answer. Hands-on Labs— Master the practical, hands-on skills of the course by performing all the tasks in the course labs and additional challenge labs included in Part II of the Learning Guide. 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.

IP Subnetting for everyone in 4 simple steps! If you want to know everything about IP Subnetting and how the Internet works, then this book is definitely for you. It doesn't matter if you are studying for the CCNA exam or you are just trying to master all kind of networking techniques, this is a book for everyone. You won't have to be tech-savvy to understand what's being explained in the chapters of this book. The content is suitable for both beginners and those who are more knowledgeable on the subject. You won't have to learn all sort of complicated terminology to understand the content of this book. The steps to IP Subnetting are simple and easy to apply. By reading this, you will: Learn how to subnet a network Find out what an IPv4 is and how the IPv4 Protocol works Understand everything about subnetting a computer networks Learn how to implement everything you have learned here with Cisco devices And there are many other things you can grasp by reading this book. Just buy it NOW and you will have a chance at truly understanding IP Subnetting. You won't blindly follow some instructions, you will get an insight of everything that you are reading! Tags: IP Subnetting, Subnetting, IP Network Subnetting, Network Subnetting, Computer Networking, Network Subnet, IP Subnetting Quick Guide, Subnet, IP Subnetting made easy

This Cisco-authorized, self-paced foundation learning tool for both the CCENT 100-101 and CCNA® 200-120 exams offers a comprehensive overview of the diverse technologies found in modern internetworks. From routing and switching concepts to practical configuration and security, it teaches with numerous examples, illustrations, and real-world scenarios, helping you rapidly gain both expertise and confidence. This book provides you with all the knowledge you need to install, operate and troubleshoot a small enterprise branch network, including basic network security. Whether you are preparing for certification or simply want to understand basic Cisco networking, you'll find this guide exceptionally valuable. Topics covered include: TCP/IP models and protocols; LANs and Ethernet; running Cisco IOS; VLANs and trunks; IP addressing and subnetting; packet delivery; static and dynamic routing; DHCP and NAT; network security; WANs, IPv6, and more. This edition has been fully updated to reflect the new Cisco ICND1 100-101 exam blueprint. Content has been reorganized, simplified, and expanded to help you learn even more efficiently. New Production Network Simulation questions offer more real-world review, and new web video resources in each chapter walks you through many key tasks. Interconnecting Cisco Network Devices, Part 1 (ICND1) Foundation Learning Guide, Fourth Edition is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction from authorized Cisco Learning Partners worldwide, please visit www.cisco.com/go/authorizedtraining. Network functions, components, models, layers, topologies, and applications LAN, Ethernet, switching, routing, and packet delivery concepts Network management with Cisco IOS software and its command-line interface VLANs and segmentation: techniques for optimizing performance and flexibility Easy ways to create efficient IP addressing and subnetting schemes Cisco router configuration, including static and dynamic routing DHCP and NAT: dynamically providing IP addresses and handling limited address availability Essential network security techniques Traffic management with Access Control Lists WAN concepts, technologies, and options IPv6 configuration in dynamically routed network environments

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