

# Subnet Chart

# Subnet Bits	# Host Bits	CIDR	# Addresses	# Assignable Hosts	Subnet Mask
<i>Number of bits used for subnets</i>	<i>Number of bits used for hosts</i>	<i>CIDR block suffix</i>	<i>Number of addresses in each subnet</i>	<i>Number of assignable host addresses in each subnet</i>	<i>Dotted-decimal mask delineating the subnet and host portions of an address</i>
8	24	/8	16,777,216	16,777,214	255.0.0.0
9	23	/9	8,388,608	8,388,606	255.128.0.0
10	22	/10	4,194,304	4,194,302	255.192.0.0
11	21	/11	2,097,152	2,097,150	255.224.0.0
12	20	/12	1,048,576	1,048,574	255.240.0.0
13	19	/13	524,288	524,286	255.248.0.0
14	18	/14	262,144	262,142	255.252.0.0
15	17	/15	131,072	131,070	255.254.0.0
16	16	/16	65,536	65,534	255.255.0.0
17	15	/17	32,768	32,766	255.255.128.0
18	14	/18	16,384	16,382	255.255.192.0

Class A

Class B

# Manual Subnet Calculation

**Wendell Odom**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **Manual Subnet Calculation:**

*The TCP/IP Guide* Charles M. Kozierok, 2005-10-01 From Charles M Kozierok the creator of the highly regarded [www.pcguides.com](http://www.pcguides.com) comes The TCP IP Guide This completely up to date encyclopedic reference on the TCP IP protocol suite will appeal to newcomers and the seasoned professional alike Kozierok details the core protocols that make TCP IP internetworks function and the most important classic TCP IP applications integrating IPv6 coverage throughout Over 350 illustrations and hundreds of tables help to explain the finer points of this complex topic The book's personal user friendly writing style lets readers of all levels understand the dozens of protocols and technologies that run the Internet with full coverage of PPP ARP IP IPv6 IP NAT IPsec Mobile IP ICMP RIP BGP TCP UDP DNS DHCP SNMP FTP SMTP NNTP HTTP Telnet and much more The TCP IP Guide is a must have addition to the libraries of internetworking students educators networking professionals and those working toward certification

**Understanding TCP/IP Subnetting** Trung Nguyen, 2015-12-21 This is an excellent tutorial for anyone wanting to pass the Microsoft A or Cisco TCP IP exam It covers IPv4 subnetting in depth such as how to construct the IPv4 subnet tables from the ground up Additional chapter includes the new IPv6 standard Hi Everyone I took my TCP IP today with score of 948 1000 your exam preparation is excellent and good value for money What I like about your test is the layout dividing test into different topics that way it is easy to spot your weak areas I would recommend anyone out there to check your Test Prep before taking any Microsoft Exams Abdi Elmi I had just appeared for the TCP IP exam and it was quite tough Your questions proved to be very useful additional source besides my Sybex guide My score 879 though I expected in 900s Steven Chiu Calcutta India Passed the Microsoft TCP IP in the mid nineties Glad I had your tool Robert Vettor U S A As for TCP IP I made 965 which means I missed 2 out of 58 I was positive that two of the questions had no correct answers As for your tutorial it is the bomb I don't know if you know that term means where you live but my 15 year old daughter uses it to refer to something that is excellent I was totally prepared and did not see anything that the tutorial did not cover in detail Keep up the good work Jim Newton U S A Thanks for your tutorial You helped me pass TCP IP and other MS Exams Just wanted to say thanks big time Thank you for your assistance in this matter John Devereaux HP Computers

**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 **Absolute Beginner's Guide to Networking** Joseph W. Habraken, 2003 This new edition gives readers the ability and understanding necessary to create and administer a network The book shows the reader how to physically connect computers and other devices to a network and access peripherals such as printers over the network **CompTIA Network+ Lab Manual** Toby Skandier, 2012-01-31 Gain street smart skills in network administration Think of the most common and challenging tasks that network administrators face then read this book and find out how to perform those tasks step by step CompTIA Network Lab Manual provides an inside look into the field of network administration as though you were actually on the job You ll find a variety of scenarios and potential roadblocks as well as clearly mapped sections to help you prepare for the CompTIA Network Exam N10 005 Learn how to design implement configure maintain secure and troubleshoot a network with this street smart guide Provides step by step instructions for many of the tasks network administrators perform on a day to day basis such as configuring wireless components placing routers and servers configuring hubs switches and routers configuring a Windows client and troubleshooting a network Addresses the CompTIA Network Exam N10 005 objectives and also includes a variety of practice labs giving you plenty of opportunities for hands on skill building Organized by the phases of network administration designing a network implementing and configuring it maintenance and security and troubleshooting Study practice and review for the new CompTIA Network N10 005 Exam or a networking career with this practical thorough lab manual *IP Addressing and Subnetting INC IPV6* Syngress, 2000-01-28 Internetworking Protocol IP addresses are the unique numeric identifiers required of every device connected to the Internet They allow for the precise routing of data across very complex worldwide internetworks The rules for their format and use are governed by the Internet Engineering Task Force IETF of the The Internet SOCIety ISOC In response to the exponential increase in demand for new IP

addresses the IETF has finalized its revision on IP addressing as IP Version 6 also known as IPv6 Next Generation Key hardware vendors such as Cisco and major Internet Service Providers such as America Online have already announced plans to migrate to IP Version 6 IP address allocation within an organization requires a lot of long term planning This timely publication addresses the administrator and engineer's need to know how IP 6 impacts their enterprise networks Easy to read light technical approach to cellular technology Ideal for companies planning a phased migration from IP 4 to IP 6 Timely publication The IETF standard was finalized in early 1999 and will begin to be implemented in late 1999 2000 The current IP Version 4 address set will be exhausted by 2003 The book focuses on planning and configuring networks and devices for IP 6 Specifically it will cover how to Increase the IP address size from 32 bits to 128 bits Support more levels of addressing hierarchy Support an increased number of addressable nodes Support simpler auto configuration of addresses Improve the scalability of multicast routing by adding a scope field to multicast addresses Use a new anycast address to send a packet to any one of a group of nodes

**CCNA ICND2 640-816 Official Cert Guide** Wendell Odom, 2012 This preparation guide offers complete coverage of the CCNA 640 802 exam including all INTRO and ICND topics

**Advanced Computer Networking: Comprehensive Techniques for Modern Systems** Adam Jones, 2024-11-27 Immerse yourself in the intricate world of networking with Advanced Computer Networking Comprehensive Techniques for Modern Systems This advanced guide caters to both tech savvy professionals desiring to refine their expertise and those eager to delve deeper into the complexities of computer networking The book delves into a wide array of vital topics from foundational network types and topologies to the cutting edge technologies shaping the future of connectivity Gain the confidence to design implement and manage sophisticated networks through in depth explanations and real world applications Explore the complexities of network protocols IP addressing routing and switching technologies network security VPNs and much more Whether you're a student poised to launch a career in technology a system administrator responsible for seamless network operations or an IT professional committed to mastering the latest advancements Advanced Computer Networking Comprehensive Techniques for Modern Systems provides essential insights and guidance to expertly navigate today's dynamic networking landscape Enhance your networking acumen and unlock the full potential of computer networks with this indispensable resource at your side

**Routing Protocols Companion Guide** Cisco Networking Academy, 2014-02-03 Routing Protocols Companion Guide is the official supplemental textbook for the Routing Protocols course in the Cisco Networking Academy CCNA Routing and Switching curriculum This course describes the architecture components and operations of routers and explains the principles of routing and routing protocols You learn how to configure a router for basic and advanced functionality By the end of this course you will be able to configure and troubleshoot routers and resolve common issues with RIPv1 RIPv2 EIGRP and OSPF in both IPv4 and IPv6 networks 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 150 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 by doing all the 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 the course labs and Class Activities that are included in the course and published in the separate Lab Manual

Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fifth Edition (Exam N10-007) Mike Meyers, Jonathan S. Weissman, 2018-07-13 Practice the Skills Essential for a Successful IT Career 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term quizzes help build your vocabulary Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fifth Edition covers Network models Cabling and topology Ethernet basics and modern Ethernet Installing a physical network TCP IP Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Mobile networking Building a real world network Managing risk Protecting your network Network monitoring and troubleshooting

*Troubleshooting Microsoft Technologies* Chris Wolf, 2003 bull Addresses the topic on which network administrators most need help troubleshooting bull Comprehensive covers Windows Server 2003 Windows XP Office Active Directory and more bull The first book to cover troubleshooting Microsoft networks

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### **Cloud Computing Demystified for Aspiring Professionals**

David Santana,Amit Malik,2023-03-24 Gain in depth knowledge of cloud computing concepts and apply them to accelerate your career in any cloud engineering role Key FeaturesGet to grips with key cloud computing concepts cloud service providers and best practicesExplore demonstrations for cloud computing models using real world examplesAdopt the self paced learning strategy and get industry ready for cloud engineering rolesPurchase of the print or Kindle book includes a free eBook in the PDF formatBook Description If you want to upskill yourself in cloud computing domains to thrive in the IT industry then you ve come to the right place Cloud Computing Demystified for Aspiring Professionals helps you to master cloud computing essentials and important technologies offered by cloud service providers needed to succeed in a cloud centric job role This book begins with an overview of transformation from traditional to modern day cloud computing infrastructure and various types and models of cloud computing You ll learn how to implement secure virtual networks virtual machines and data warehouse resources including data lake services used in big data analytics as well as when to use SQL and NoSQL databases and how to build microservices using multi cloud Kubernetes services across AWS Microsoft Azure and Google Cloud You ll also get step by step demonstrations of infrastructure platform and software cloud services and optimization recommendations derived from certified industry experts using hands on tutorials self assessment questions and real world case studies By the end of this book you ll be ready to successfully implement cloud computing standardized concepts services and best practices in your workplace What you will learnGain insights into cloud computing essentials and public private hybrid and multi cloud deployment modelsExplore core cloud computing services such as IaaS PaaS and SaaSDiscover major public cloud providers such as AWS Microsoft and GoogleUnlock the power of IaaS PaaS and SaaS with AWS Azure and GCPCreate secure networks containers Kubernetes compute databases and API services on cloudDevelop industry based cloud solutions using real world examplesGet recommendations on exam preparation for cloud

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**Computer Networking Bootcamp** Rob Botwright, 2024 Welcome to the ultimate Computer Networking Bootcamp bundle Are you ready to level up your networking skills and become a master in routing switching and troubleshooting Look no further Introducing the Computer Networking Bootcamp bundle your one stop solution for mastering the intricacies of computer networking With four comprehensive books packed with valuable insights and practical techniques this bundle is designed to take you from beginner to expert in no time Book 1 Networking Fundamentals A Beginner's Guide to Routing Essentials Perfect for newcomers this book covers the basics of network architecture routing essentials and more Lay a solid foundation for your networking journey Book 2 Switching Strategies Intermediate Techniques for Network Optimization Dive deeper into switching techniques like VLANs spanning tree protocols and EtherChannel Optimize your network's performance and scalability like a pro Book 3 Advanced Routing Protocols Mastering Complex Network Configurations Ready to tackle complex network configurations Learn the ins and outs of OSPF EIGRP and BGP to design implement and troubleshoot robust routing solutions Book 4 Troubleshooting Mastery Expert Solutions for Resolving Network Challenges Network issues got you down Fear not With real world scenarios and expert troubleshooting strategies you'll learn how to diagnose and resolve challenges with ease Why choose the Computer Networking Bootcamp bundle Comprehensive coverage of routing switching and troubleshooting Suitable for beginners and experienced professionals alike Practical examples and real world scenarios for hands on learning Expert insights from seasoned networking professionals Everything you need to succeed in today's dynamic IT landscape Don't miss out on this opportunity to become a networking guru Get your hands on the Computer Networking Bootcamp bundle today and take your skills to the next level Order now and embark on your journey to networking excellence

*Terraform Cookbook* Kerim Satirli, Taylor Dolezal, 2024-10-03 Cloud services and SaaS software permeate every company's IT landscape requiring a shift from manually provisioned services to a more structured approach with codification at its core Terraform provides tools to manage the lifecycle of your IT landscape across thousands of different cloud providers and SaaS platforms By defining your infrastructure as code you can safely and predictably make changes modularize crucial building blocks and create reusable service components Each recipe in this cookbook addresses a specific problem and prefaces the solution with detailed insights into the how and why If you're just starting with Terraform and codified infrastructure this book will help you create a solid foundation on which you can build for years to come If you're an advanced user this guide will help you reaffirm your knowledge and take it to the next level as you challenge yourself with more complex infrastructure spread across multiple providers Recipes include Strategies on how to use Terraform with



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**Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fourth Edition (Exam N10-006)** Mike Meyers, Jonathan S.

Weissman, 2015-06-05 Practice the Skills Essential for a Successful IT Career Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fourth Edition features 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term quizzes help build your vocabulary Get complete coverage of key skills and concepts including Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Instructor resources available This lab manual supplements the textbook Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition Exam N10 006 which is available separately Solutions to the labs are not printed in the book and are only available to adopting instructors

*CCENT/CCNA ICND1 100-101 Official Cert Guide* Wendell Odom, 2013-03-27 Cisco Press is the official publisher for the New CCENT Certification The New Edition of this Best Selling Official Cert Guide includes Updated Content New Exercises 400 Practice Questions and 90 Minutes of Video Training PLUS the CCENT Network Simulator Lite Edition with lab exercises The CCENT Certification is now the only prerequisite for the CCNA Routing and Switching CCNA Voice CCNA Wireless CCNA Security and CCDA Certifications Cisco CCENT CCNA ICND1 100 101 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time Best selling author and expert instructor Wendell Odom shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This complete study package includes A test preparation routine proven to help you pass the exam Do I Know This Already quizzes which enable you to decide how much time you need to spend on each section Chapter ending and part ending exercises which help you drill on key concepts you must know thoroughly Troubleshooting sections which help you master the complex scenarios you will face on the exam The powerful Pearson IT Certification Practice Test software complete with hundreds of well reviewed exam realistic questions customization options and detailed performance reports A free copy of the CCENT CCNA ICND1 100 101 Network Simulator Lite software complete with meaningful lab exercises that help you hone your hands on skills with the command line interface for routers and switches More than 90 minutes of video mentoring from the author A final preparation chapter which guides you through tools and resources to help you craft your review and test taking strategies Study plan suggestions and templates to help you organize and optimize your study time This official study guide helps you master all the topics on

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teaches Cloud Engineering and Advanced Cloud Engineering at Southern Methodist University Both courses were developed in partnership with the AWS Academy the education arm of the Amazon Web Services cloud platform Using this methodology his students routinely take and pass cloud certification exams and obtain lucrative employment positions in the rapidly expanding cloud industry

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