

# 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

**Trung Nguyen**

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.pcguide.com](http://www.pcguide.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

**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

*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 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 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

*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 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 know as IPng ng 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

*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 vocabularyMike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fifth Editioncovers 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

**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 accreditationsWho this book is for The book is for aspiring cloud engineers as well as college graduates IT enthusiasts and beginner level cloud practitioners looking to get into cloud computing or transforming their career and upskilling themselves in a cloud engineering role in any industry A basic understanding of networking database development and data analysis concepts and experience in programming languages such as Python and C will help you get the most out of this book

**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

**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

**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 the CCENT CCNA ICND1 exam including Networking fundamentals Ethernet LANs and switches IPv4 addressing and subnetting Operating Cisco routers Configuring OSPF ACLs and NAT IPv6 fundamentals Wendell Odom CCIE No 1624 is the most respected author of Cisco networking books in the world His past titles include books on the entry level Cisco certifications CCENT and CCNA the more advanced CCNP and the industry renowned CCIE His books are known for their technical depth and accuracy Wendell has worked as a network engineer consultant instructor course developer and book author and he has produced videos software and blogs related to Cisco certifications His website with links to various study tools and resources is at [www.certskills.com](http://www.certskills.com) Well regarded for its level of detail study plans assessment features challenging review questions and exercises video instruction and hands on labs this official study guide helps you master the concepts and techniques that ensure your exam success Companion DVD The DVD contains more than 400 unique practice exam questions ICND1 Network Simulator Lite software and 90 minutes of video training Includes Exclusive Offer for 70% Off Premium Edition eBook and Practice Test Pearson IT Certification Practice Test minimum system requirements Windows XP SP3 Windows Vista SP2 Windows 7 or Windows 8 Microsoft NET Framework 4.0 Client Pentium class 1GHz processor or equivalent 512 MB RAM 650 MB disc space plus 50 MB for each downloaded practice exam CCENT ICND1 Network Simulator Lite minimum system requirements Microsoft Windows XP SP3 Windows Vista 32 bit 64 bit with SP1 Windows 7 32 bit 64 bit or Windows 8 32 bit 64 bit x86 processors Mac OS X 10.6 10.7 or 10.8 Intel Pentium III 1GHz or faster processor 512 MB RAM 1GB recommended 1 GB hard disk space 32 bit color depth at 1024x768 resolution Adobe Acrobat Reader version 8 and above Other applications installed during installation Adobe AIR 3.6.0 Captive JRE 6 This volume is part of the Official Cert Guide series from Cisco Press Books in this series provide officially developed exam preparation materials that offer assessment review and practice to help Cisco Career Certification candidates identify weaknesses concentrate their study efforts and enhance their confidence as exam day nears The 1 hour 14 minute presentation found at the following link was given by Wendell Odom to cover Teaching the New CCENT ICND1 100-101 CCNA ICND2 200-101 Exam Material <http://bit.ly/OdomCCENTCCNA> *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



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**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

*MCITP: Windows Server 2008 Enterprise Administrator Study Guide* Steven Johnson, 2013-04-01 Learn everything about Microsoft's brand new MCITP Windows Server 2008 Enterprise Administrator exam with the helpful information in MCITP Windows Server 2008 Enterprise Administrator Study Guide Exam 70-647 with

CD Find complete exam coverage including exam objectives real world scenarios hands on exercises and challenging review questions to assist you in developing your knowledge This book offers clear and comprehensive exam coverage so that you can be one step closer to earning your title as a Microsoft Certified Information Technology Professional and feel confident and prepared when you take the test Note CD ROM DVD and other supplementary materials are not included as part of eBook file

**CCNA Lab Manual for Cisco Networking Fundamentals** Kelly Cannon, Kurt Hudson, 1999-10 CD ROM includes a limited version of MeasureUp's CCNA test prep software including 50 sample exam questions and a test engine

Page xiii *Cloud Technologies and Services* M. Scott Kingsley, 2023-10-31 This textbook provides a thorough yet compact review of cloud technologies It offers easy to understand explanations of the technical concepts underlying cloud services platforms and applications offered by Amazon Web Services AWS Microsoft Azure and the Google Cloud Platform GCP It presents cloud concepts at a depth that can be understood and applied by both technical and non technical readers Once that is accomplished the learner can then easily move toward more advanced topics Or they can use the knowledge gained from this book to obtain industry certifications and be competitive in this exciting industry Reader learning is enhanced with quizzes and exam questions and hands on labs throughout the book with PowerPoint slides instructor guide and additional labs online All the tools needed for advancement to the level of cloud architect are found in this book The author has verified the success of this approach in his own academic environment with much success He 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

Network+ Lab Manual Tami Evanson, 2000 Candidates for the Network certification can find all the help they need in this student workbook which provides a full set of lab exercises to accompany the Network Study Guide and covers every objective defined by CompTIA for the exam

CCNA Routing and Switching ICND2 200-105 Official Cert Guide, Academic Edition Wendell Odom, 2016-07-26 Trust the best selling Official Cert Guide series from Cisco Press to help you learn prepare and practice for exam success They are built with the objective of providing assessment review and practice to help ensure you are fully prepared for your certification exam CCNA Routing and Switching ICND2 200 105 Official Cert Guide Academic Edition is a comprehensive textbook and study package that provides you with a detailed overview of network configuration and troubleshooting Best selling author and expert instructor Wendell Odom shares study 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 exams 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

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Minimum Windows 10 32 64 bit Windows 8 1 32 64 bit or Windows 7 32 64 bit 1 gigahertz GHz or faster 32 bit x86 or 64 bit x64 processor 1 gigabyte GB RAM 32 bit or 2 GB RAM 64 bit 16 GB available hard disk space 32 bit or 20 GB 64 bit DirectX 9 graphics device with WDDM 1 0 or higher driver Adobe Acrobat Reader version 8 and above Mac Minimum OS X 10 11 10 10 10 9 or 10 8 Intel core Duo 1 83 GHz 512 MB RAM 1 GB recommended 1 5 GB hard disk space 32 bit color depth at 1024x768 resolution Adobe Acrobat Reader version 8 and above

## Reviewing **Manual Subnet Calculation**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Manual Subnet Calculation**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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