

Ipv6 Subnet Calculator

6net

IP Subnetting for Dummies Mike Blackbot, 2019-11-07 Are you ready to learn a quick subnetting? Are you ready to learn how to create & and play with ip subnets and its maths? Regardless of how little experience you may have, if you are a knowledge-seeking person and want to learn about subnetting, follow us as you are at the right place to learn. This is your ultimate guideline to gaining the knowledge to pass all networking exams like CCNA, HCNA, CompTIA A+, and achieve success in your university subject There are millions of other networking guides, tutorials and research papers out there but most of them are unclear, complicated and wordy. That's why we are now offering you a piece of writing which is easy to follow and will help you know how to get started in IP Subnetting with 7 steps: * STEP 1: Understanding IP address classes and subnet mask Introduction about internet protocol addresses version 4 and version 6 (IPv4 & IPv6) * STEP 2: Explanation, binary mathematical equations, and hexadecimal math (with examples from decimal to binary conversion, binary to hexadecimal conversion and binary to decimal conversion in easy 5 steps) * STEP 3: What is subnetting and why we need to use subnets? + A brief and explanatory introduction of subnetting + 3 important reasons for choosing subnetting + Very simple way to understand subnetting + IPv4 subnetting on the basis of their classes (class A/B/C) in 6 simple steps with illustration tables * STEP 4: Subnetting CIDR + Importance of subnetting and CIDR notation & networking terminologies + Step by step to do CIDR notation uses in IP classes * STEP 5: FLSM and VLSM * STEP 6: Subnetting and supernetting Variable-length subnet mask VLSM and supernetting route summarization * STEP 7: Step by step to add an IP address and subnetworks to a CISCO Router BONUS FOR YOU: Cheatsheets, easy way to learn subnetting from tables (subnetting calculator) Tips & tricks to use while subnetting. And Much, Much More! GRAB NOW

IPv6 Address Planning Tom Coffeen, 2014-11-08 If you're ready to join the move to IPv6, this comprehensive guide gets you started by showing you how to create an effective IPv6 address plan. In three example-driven sections—preparation, design, and maintenance—you'll learn principles and best practices for designing, deploying, and maintaining an address plan far beyond what's possible with IPv4 networks. During the course of the book, you'll walk through the process of building a sample address plan for a fictional company. Enterprise IT network architects, engineers, and administrators will see firsthand how IPv6 provides opportunities for creating an operationally efficient plan that's scalable, flexible, extensible, manageable, and durable. Explore IPv6 addressing basics, including representation, structure, and types Manage risks and costs by using a three-phase approach for deploying IPv6 Dig into IPv6 subnetting methods and learn how they differ from IPv4 Determine the appropriate size and type of the IPv6 allocation you require Apply current network management tools to IPv6 Use IPv6 renumbering methods that enable greater network scale and easier integration Implement policies and practices to keep IPv6 addresses reachable

The Only Ip Book You Will Ever Need! Lazaro J. Diaz, 2014-05-30 (Black/White) This book explains both IPv4 & IPv6. It is a manual for subnetting in these two protocols. This book is a step-by-step guide for those that need to find a faster and simple way of subnetting and will cover everything you need to know about these two Internet Protocols. You will learn to subnet in your head, no calculator needed! It will also let you subnet in IPv6 using my same, simple and easy method.

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

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

IPv6 Network Administration Niall Richard Murphy,David Malone,2005-03-02 What once seemed nearly impossible has turned into reality. The number of available Internet addresses is now nearly exhausted, due mostly to the explosion of commercial websites and entries from an expanding number of countries. This growing shortage has effectively put the Internet community--and some of its most brilliant engineers--on alert for the last decade.Their solution was to create IPv6, a new Internet standard which will ultimately replace the current and antiquated IPv4. As the new backbone of the Internet, this new protocol would fix the most difficult problems that the Internet faces today--scalability and management. And even though IPv6's implementation has met with some resistance over the past few years, all signs are now pointing to its gradual worldwide adoption in the very near future. Sooner or later, all network administrators will need to understand IPv6, and now is a good time to get started.IPv6 Network Administration offers administrators the complete inside info on IPv6. This book reveals the many benefits as well as the potential downsides of this next-generation protocol. It also shows readers exactly how to set up and administer an IPv6 network.A must-have for network administrators everywhere, IPv6 Network Administration delivers an even-handed approach to what will be the most fundamental change to the Internet since its inception. Some of the other IPv6 assets that are covered include: routing integrated auto-configuration quality-of-services (QoS) enhanced mobility end-to-end security IPv6 Network Administration explains what works, what doesn't, and most of all, what's practical when considering upgrading networks from the current protocol to IPv6.

Absolute FreeBSD, 3rd Edition Michael W. Lucas,2018-10-09 This updated edition of Michael W. Lucas' definitive volume on FreeBSD-based systems adds coverage of modern disks, the ZFS filesystem IPv6, redesigned jail and packaging systems, and virtualization, among dozens of new features added in the last 10 years. FreeBSD is the muscle behind companies like Netflix and EMC. Any place where someone does heavy lifting on the Internet, you'll find FreeBSD. This newly revised edition of Absolute FreeBSD brings FreeBSD's strengths to bear on your problems and covers FreeBSD's newest features, all in the inimitable style that has made author Michael W. Lucas' system administration books so popular. Any computer system is only as good as the system administrator's

knowledge. Absolute FreeBSD teaches you everything you need to know about managing FreeBSD systems, from installation, configuration, and taking the system from just working to working well. A cohesive focus on service delivery and best practice means that you can apply much of the book to other operating systems. Absolute FreeBSD dives deep into server management, taking you beyond just making things work and into understanding why they work. You'll learn:

- How to best install FreeBSD to meet your needs
- Which filesystem to use in your environment
- How to back up and restore critical data
- How to tweak the kernel, and when not to
- Network configuration, from activating interfaces to selecting congestion control algorithms
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With Absolute FreeBSD you will get the solid introduction you need; and if you're a fan of the earlier editions, you will expand your skills even further.

The Accidental SysAdmin Handbook Eric Kralicek, 2016-02-01 Understand the concepts, processes and technologies that will aid in your professional development as a new system administrator. While every information technology culture is specific to its parent organization, there are commonalities that apply to all organizations. The Accidental SysAdmin Handbook, Second Edition looks at those commonalities and provides a general introduction to critical aspects associated with system administration. It further acts to provide definitions and patterns for common computer terms and acronyms. What You Will Learn Build and manage home networking and plan more complex network environments Manage the network layer and service architectures as well as network support plans Develop a server hardware strategy and understand the physical vs. virtual server ecosystem Handle data storage, data strategies and directory services, and central account management Work with DNS, DHCP, IP v4 and IP v6 Deploy workstations and printers Manage and use antivirus and security management software Build, manage and work with intranets and Internet support services Who This Book Is For It is assumed that the reader has little to no experience in a professional information technology environment.

IPv6 Essentials Silvia Hagen, 2014-06-09 If your organization is gearing up for IPv6, this in-depth book provides the practical information and guidance you need to plan for, design, and implement this vastly improved protocol. Author Silvia Hagen takes system and network administrators, engineers, and network designers through the technical details of IPv6 features and functions, and provides options for those who need to integrate IPv6 with their current IPv4 infrastructure. The flood of Internet-enabled devices has made migrating to IPv6 a paramount concern worldwide. In this updated edition, Hagen distills more than ten years of studying, working with, and consulting with enterprises on IPv6. It's the only book of its kind. IPv6 Essentials covers: Address architecture, header structure, and the ICMPv6 message format IPv6 mechanisms such as Neighbor Discovery, Stateless Address autoconfiguration, and Duplicate Address detection Network-related aspects and services: Layer 2 support, Upper Layer Protocols, and Checksums IPv6 security: general practices, IPSec basics, IPv6 security elements, and enterprise security models Transitioning to IPv6: dual-stack operation, tunneling, and translation techniques Mobile IPv6: technology for a new generation of mobile services Planning options, integration scenarios, address plan, best practices, and dos and don'ts

IP Addressing and Subnetting Including IPv6 J. D. Wegner, Robert Rockell, 2000 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

IP Addressing and Subnetting INC IPV6 Syngress,2000 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.

IPv6 Pete Loshin,2004-01-30 The second edition of IPv6: Theory, Protocol, and Practice guides readers through implemetation and deployment of IPv6. The Theory section takes a close, unbiased look at why so much time and effort has been expended on revising IPv4. In the Protocol section is a comprehensive review of the specifics of IPv6 and related protocols. Finally, the Practice section provides hands-on explanations of how to roll out IPv6 support and services. This completely rewritten edition offers updated and comprehensive coverage of important topics including router and server configuration, security, the impact of IPv6 on mobile networks, and evaluating the impact of IPv6-enabled networks globally. Pete Loshin's famously lucid explanations benefit readers at every turn, making Ipv6: Theory, Protocol, and Practice the best way for a large diverse audience to get up to speed on this groundbreaking technology. The comprehensive, accessible, and up-to-date resource needed by network engineers and support staff, product developers and managers, programmers, and marketing professionals Divided into sections on theory, the protocol's technical details, and techniques for building Ipv6 networks, this book covers not only the protocol but the ways in which the protocol can be integrated into networks Covers critical topics in depth, including router and server configuration, security, value assessment, and the impact of Ipv6 on global networks

Sams Teach Yourself TCP/IP in 24 Hours Joe Casad,2011-10-25 In just 24 sessions of one hour or less, you'll discover how to implement, monitor, and manage a TCP/IP network—even the latest cloud-based and IPv6 networks. Using this book's straightforward, step-by-step approach, you'll uncover the essentials of TCP/IP and put that knowledge to work through practical examples. Each lesson builds on what you've already learned, giving you a strong real-world foundation for success. Expert author and network engineer Joe Casad guides you from the basics to advanced techniques—including TCP/IP's architecture, layers, subnetting, CIDR, routing, security, utilities, remote access, web services, streaming, and much more. Practical discussions provide an inside look at TCP/IP components and protocols. Step-by-step instructions walk you through many common tasks. Q&As at the end of each

hour help you test your knowledge. Notes and tips point out shortcuts and solutions and help you steer clear of potential problems. If you're looking for a smart, concise introduction to the protocols that power the Internet, start your clock and look inside. Sams Teach Yourself TCP/IP in 24 Hours is your guide to the secrets of TCP/IP. Learn how to... Understand what TCP/IP is, and how it works Discover how IPv6 differs from IPv4, and how to migrate or coexist with IPv6 Work with TCP/IP's Network Access, Internet, Transport, and Application layers Implement flexible addressing with subnetting and CIDR Establish efficient and reliable routing Implement name resolution Secure TCP/IP networks—detect and prevent attacks Automatically configure TCP/IP clients and hosts Provide classic TCP/IP services and powerful new Web services Use TCP/IP in advanced cloud-based environments Support efficient media streaming and webcasting Capitalize on the benefits of the new HTML5 standard Run TCP/IP protocols over wireless networks Troubleshoot TCP/IP networks with ping, traceroute, and other tools Provide for monitoring and remote access Deploy efficient email systems with POP3, IMAP4, and SMTP Walk through all facets of implementing a TCP/IP network

Handbook of IPv4 to IPv6 Transition John J. Amoss, Daniel Minoli, 2007-12-06 The implementation of IPv6 is essential to the continued growth of the Internet and the development of new applications. The Handbook of IPv4 to IPv6 Transition Methodologies provides a wealth of best practices and procedures that will help corporations plan and implement a smooth transition to IPv6. A blueprint for successful transition, the Handbook of IPv4 to IPv6 Transition— Provides a tutorial of IPv6 addressing capabilities Looks at IPv6 network constructs, specifically key routing processes Examines IPv6 autoconfiguration techniques and the suite of IPv6-related protocols Discusses all the major IPv6 enterprise/institutional network migration mechanisms as well as coexistence issues Identifies the various elements in the network and what migration role they will need to play in order to support the transition Surveys the application and security aspects of the IPv6 transition Offers the first reference in many years to address the migration and macro-level scalability requirements to support the DoD/DISA/GAO drive for an IPv6-based U.S. Government

IPv6 Deployment Guide 6net, 2008 IPv6 is replacing IPv4 to dominate the networking world. This deployment guide will enable you to fully harness the power of IPv6. A Must have reference for IT/Networking professionals and students!

IPv6 Deployment and Management Michael Dooley, Timothy Rooney, 2013-04-19 With the announcement in 2011 that the current Internet Protocol (IP), IPv4, has nearly run out, interest in IPv6 -- the latest IP version -- has grown substantially. This book describes IPv6 technology and its repercussions on organizations, including strategies and techniques for assessing the impact of deploying IPv6 on a network, discovering current IP assets, assessing network readiness, creating a plan to deploy IPv6 while retaining IPv4 connectivity, and for managing a dual protocol IPv4-IPv6 network. It is a must read for IP network engineers, managers, and those who work in IT.

Planning for IPv6 Silvia Hagen, 2011-09-06 It's official: with IPv4 network addresses close to depletion, moving to IPv6 is now business critical. This concise book helps you plan for IPv6 integration by providing a high-level overview of the technical—and nontechnical—steps involved. Many of the challenges for your enterprise are on the organizational level, and solutions differ from company to company. IPv6 Essentials author Silvia Hagen, a protocol analysis and directory service expert who's worked with IPv6 international groups and forums for 10 years, supplies answers to the issues most frequently discussed by the clients she consults. With this guide, IPv6 project leaders and planning team members learn how to develop a cohesive integration strategy for building the next-generation network. Make a business case by focusing on the opportunities IPv6 offers Create a high level design and conduct a network assessment Develop a plan for evaluating vendors and products, and building labs and testing Understand routing protocol choices, security designs, and DNS issues Discover how to create an IPv6 address plan and manage IPv6 addresses Learn the available integration and transition technologies, and the scenarios they cover

Sams Teach Yourself Windows Server 2008 in 24 Hours Joe Habraken, 2008-05-11 In just 24 lessons of one hour or less, you will be able to install and configure Microsoft Windows Server 2008 and its various services for any size network. Using a straightforward, step-by-step approach, each

lesson builds on the previous ones, enabling you to learn the essentials of Windows Server® 2008 from the ground up. Step-by-step instructions carefully walk you through the most common tasks. Q&As at the end of each hour help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips offer advice or show you easier ways to do something. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Joe Habraken is a computer technology professional and best-selling author with more than fifteen years of experience in the information technology field. He has written more than twenty computer and information technology publications including *Home Wireless Networking in a Snap*, *Skinning Windows XP*, and *Sams Teach Yourself Networking in 24 Hours* (with Matt Hayden). Joe, a Microsoft Certified Professional and Cisco Certified Network Associate, currently serves as an associate professor at the University of New England in Biddeford, ME, where he teaches a variety of new media and information technology-related courses. Learn how to...

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TCP/IP in 24 Hours, Sams Teach Yourself Joe Casad, 2017-03-09 Sams Teach Yourself TCP/IP in 24 Hours, Sixth Edition is a practical guide to the simple yet illusive protocol system that powers the Internet. A step-by-step approach reveals how the protocols of the TCP/IP stack really work and explores the rich array of services available on the Internet today. You'll learn about configuring and managing real-world networks, and you'll gain the deep understanding you'll need to troubleshoot new problems when they arise. Sams Teach Yourself TCP/IP in 24 Hours is the only single-volume introduction to TCP/IP that receives regular updates to incorporate new technologies of the ever-changing Internet. This latest edition includes up-to-date material on recent topics such as tracking and privacy, cloud computing, mobile networks, and the Internet of Things. Each chapter also comes with: Practical, hands-on examples, showing you how to apply what you learn Quizzes and exercises that test your knowledge and stretch your skills Notes and tips with shortcuts, solutions, and workarounds If you're looking for a smart, concise introduction to the TCP/IP protocols, start your clock and look inside. Learn how to...

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- Discover how IPv6 differs from IPv4, and how to migrate or coexist with IPv6
- Configure dynamic addressing, DHCP, NAT, and Zeroconf
- Establish efficient and reliable routing, subnetting, and name resolution
- Use TCP/IP in modern cloud-based environments
- Integrate IoT devices into your TCP/IP network
- Improve your efficiency with the latest TCP/IP tools and utilities
- Support high-performance media streaming and webcasting
- Troubleshoot problems with connectivity, protocols, name resolution, and performance
- Walk through TCP/IP network implementation, from start to finish

IPv6 for Enterprise Networks Shannon McFarland, Muninder Sambi, Nikhil Sharma, Sanjay Hooda, 2011-04-01 IPv6 for Enterprise Networks The practical guide to deploying IPv6 in campus, WAN/branch, data center, and virtualized environments Shannon McFarland, CCIE® No. 5245 Muninder Sambi, CCIE No. 13915 Nikhil Sharma, CCIE No. 21273 Sanjay Hooda, CCIE No. 11737 IPv6 for Enterprise Networks brings together all the information you need to successfully deploy IPv6 in any campus, WAN/branch, data center, or virtualized environment. Four leading Cisco IPv6 experts present a practical approach to organizing and executing your large-scale IPv6 implementation. They show how IPv6 affects existing network designs, describe common IPv4/IPv6 coexistence

mechanisms, guide you in planning, and present validated configuration examples for building labs, pilots, and production networks. The authors first review some of the drivers behind the acceleration of IPv6 deployment in the enterprise. Next, they introduce powerful new IPv6 services for routing, QoS, multicast, and management, comparing them with familiar IPv4 features and behavior. Finally, they translate IPv6 concepts into usable configurations. Up-to-date and practical, IPv6 for Enterprise Networks is an indispensable resource for every network engineer, architect, manager, and consultant who must evaluate, plan, migrate to, or manage IPv6 networks. Shannon McFarland, CCIE No. 5245, is a Corporate Consulting Engineer for Cisco serving as a technical consultant for enterprise IPv6 deployment and data center design with a focus on application deployment and virtual desktop infrastructure. For more than 16 years, he has worked on large-scale enterprise campus, WAN/branch, and data center network design and optimization. For more than a decade, he has spoken at IPv6 events worldwide, including Cisco Live. Muninder Sambi, CCIE No. 13915, is a Product Line Manager for Cisco Catalyst 4500/4900 series platform, is a core member of the Cisco IPv6 development council, and a key participant in IETF's IPv6 areas of focus. Nikhil Sharma, CCIE No. 21273, is a Technical Marketing Engineer at Cisco Systems where he is responsible for defining new features for both hardware and software for the Catalyst 4500 product line. Sanjay Hooda, CCIE No. 11737, a Technical Leader at Cisco, works with embedded systems, and helps to define new product architectures. His current areas of focus include high availability and messaging in large-scale distributed switching systems.

- Identify how IPv6 affects enterprises
- Understand IPv6 services and the IPv6 features that make them possible
- Review the most common transition mechanisms including dual-stack (IPv4/IPv6) networks, IPv6 over IPv4 tunnels, and IPv6 over MPLS
- Create IPv6 network designs that reflect proven principles of modularity, hierarchy, and resiliency
- Select the best implementation options for your organization
- Build IPv6 lab environments
- Configure IPv6 step-by-step in campus, WAN/branch, and data center networks
- Integrate production-quality IPv6 services into IPv4 networks
- Implement virtualized IPv6 networks
- Deploy IPv6 for remote access
- Manage IPv6 networks efficiently and cost-effectively

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