



# IPv6 Essentials

INTEGRATING IPV6 INTO YOUR IPV4 NETWORK

Silvia Hagen  
Foreword by Vint Cerf

# Ipv6 Essentials Silvia Hagen

**R Bogdan**



## **Ipv6 Essentials Silvia Hagen:**

**IPv6 Essentials** Silvia Hagen, 2002 This insightful volume covers IPv6 in detail and explains all the new features and functions for professionals engineers network designers and IT managers

**IPv6 Essentials** Silvia Hagen, 2014-06-29 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

**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

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more than ten years of studying working with and consulting with enterprises on IPv6 It u2019s 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 u2019ts *Planning for IPv6* Silvia Hagen,2011 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 Provided by publisher **IPv6 Essentials** Silvia Hagen,2006-05-17 IPv6 Essentials Second Edition provides a succinct in depth tour of all the new features and functions in IPv6 It guides you through everything you need to know to get started including how to configure IPv6 on hosts and routers and which applications currently support IPv6 The new IPv6 protocols offers extended address space scalability improved support for security real time traffic support and auto configuration so that even a novice user can connect a machine to the Internet Aimed at system and network administrators engineers network designers and IT managers this book will help you understand plan for design and integrate IPv6 into your current IPv4 infrastructure Beginning with a short history of IPv6 author Silvia Hagen provides an overview of new functionality and discusses why we need IPv6 Hagen also shares exhaustive discussions of the new IPv6 header format and Extension Headers IPv6 address and ICMPv6 message format Security QoS Mobility and last but not least offers a Quick Start Guide for different operating systems IPv6 Essentials Second Edition also covers In depth technical guide to IPv6 Mechanisms and Case Studies that show how to integrate IPv6 into your network without interruption of IPv4 services Routing protocols and upper layer protocols Security in IPv6 concepts and requirements Includes the IPSEC framework and security elements available for authentication and encryption Quality of Service covers the elements available for QoS in IPv6 and how they can be implemented Detailed discussion of DHCPv6 and Mobile IPv6 Discussion of migration cost and business case Getting started on different operating systems Sun Solaris Linux BSD Windows XP and Cisco routers Whether you re ready to start implementing IPv6 today or are planning your strategy for the future IPv6 Essentials Second Edition will provide the solid foundation you need to get started Silvia s look at IPv6 is always refreshing as she translates complex technology features into business drivers and genuine end

user benefits to enable building new business concepts based on end to end models Latif Ladid President IPv6 Forum Chair EU IPv6 Task Force

**IPv6 Essentials** Silvia Hagen, 2002 Practical IPv6 for Windows Administrators Edward Horley, 2014-02-28

Practical IPv6 for Windows Administrators is a handy guide to implementing IPv6 in a Microsoft Windows environment This is the book you need if you are a Microsoft Windows Administrator confronted with IPv6 and in need of a quick resource to get up and going The book covers the current state of IPv6 and its support in Microsoft Windows It provides best practices and other guidance toward successful implementation This book is especially written with the goal of translating your current expertise in IPv4 into the new realm of IPv6 Special attention is given to dual stack configurations helping you to run IPv4 and IPv6 side by side and support both protocol versions during a transition period Practical IPv6 for Windows Administrators is also a fast reference you can look at to get something done quickly It covers IPv6 addressing management of IPv6 from Powershell Advanced Firewall configuration and use of IPv6 in Hyper V and virtual networking environments You ll find practical examples showing how IPv6 integrates with all the standard tools you use for IPv4 today tools like DNS and DHCP You ll also find insider knowledge on IPv6 that can help avert stumbling points on the road to deployment Provides a quick path from IPv4 expertise to IPv6 implementation Gives best practices specific to Windows on IPv6 and dual stack networks Is chock full of practical examples showing how to manage IPv6 on Windows

Planning for IPv6 Silvia Hagen, 2011-09-13 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

**Migrating Applications to IPv6** Dan York, 2011-06-10 If IPv6 is to be adopted on a large scale the applications running on desktop systems laptops and even mobile devices need to work just as well with this protocol as they do with IPv4 This concise book takes you beyond the network layer and helps you explore the issues you need to address if you are to successfully migrate your apps to IPv6 It s ideal for application developers system network architects product managers and others involved in moving your network to IPv6 Explore changes you need to make in your application s user interface Make sure your application is retrieving correct information from DNS Evaluate your app s ability to store and

process both IPv6 and IPv4 addresses Determine if your app exposes or consumes APIs where there are IP address format dependencies Work with the network layer to ensure the transport of messages to and from your app Incorporate IPv6 testing into your plans and use the correct IPv6 addresses in your documentation **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

**IPv6 Essentials, 2/E** Silvia Hagen,2006 IPv6 Essentials Second Edition provides a succinct in depth tour of all the new features and func tions in IPv6 It guides you through everything you need to know to get started including how to configure IPv6 on hosts and routers and which applications currently support IPv6 The new pro tocol offers extended address space scalability improved support for security real time traffic support and autoconfiguration so that even a novice user can connect a machine to the Internet Aimed at system and network administrators engineers network designers and IT managers this book will help you understand plan for design and integrate IPv6 into your current IPv4 infrastructure

**IPv6 Mandates** Karl A. Siil,2008-03-10 Here s the guide you need for a smooth transition to IPv6 Ready or not IPv6 is coming While every enterprise will have some individual issues to manage this guide will help you decide on a transition strategy develop a plan execute it and verify progress You ll understand the common tasks and recognize the risks and limitations of IPv6 Follow the guidelines use the checklists and you will find that making the transition is no longer intimidating in fact it may even require fewer resources than you anticipate Handle your transition as you would any large scale technology rollout Know at every stage whether you re on track and how to fix things if you re not Understand the Federal mandates that are driving IPv6 adoption Craft plans that take into account the unique elements and pitfalls related to IPv6 Discover IPv6 specific issues such as rules regarding the use and allocation of IPv6 addresses Establish groups of tasks identify and resolve dependencies among them and assign an optimal order for execution Maintain your newly IPv6 capable network to keep it operational and secure **Running IPv6** Iljitsch van Beijnum,2006-11-07 Running IPv6 explains how to install and operate the IPv6 protocol for Windows XP Mac OS X FreeBSD Red Hat Linux and Cisco routers The book also

covers DNS and BIND Zebra Apache 2 and Sendmail While IPv4 uses 32 bit addresses IPv6 addresses are 128 bits long and allow for more unique addresses While the adoption of IPv6 won't be immediate it is necessary Running IPv6 compares and contrasts IPv6 to IPv4 and discusses the advantages and disadvantages of each Because most major software and hardware vendors have adopted IPv6 the focus of this book is to leverage your existing knowledge of IPv4 and to help you apply that knowledge to the newer protocol

**IPv6 in Practice** Benedikt Stockebrand, 2006-11-28 Handling IPv6 for the first time is a challenging task even for the experienced system administrator New concepts and mechanisms make it necessary to rethink well established methods of the IPv4 protocol This book is a practical guide to IPv6 addressing Unix and network administrators with experience in TCP IP v4 but not necessarily any IPv6 knowledge It focuses on reliable and efficient operation of IPv6 implementations available today rather than on protocol specifications Consequently it covers the essential concepts using instructive and thoroughly tested examples on how to configure to administrate and to debug IPv6 setups These foundations are complemented by discussions of best practices and strategic considerations aimed at overall efficiency reliability maintainability and interoperation The examples in this book cover all relevant aspects concerning Debian GNU Linux FreeBSD and Solaris Examples about other Unix derivatives are available online at [www.benedikt-stockebrand.de](http://www.benedikt-stockebrand.de)

*Juniper SRX Series* Brad Woodberg, Rob Cameron, 2013-06-07 This complete field guide authorized by Juniper Networks is the perfect hands on reference for deploying configuring and operating Juniper's SRX Series networking device Authors Brad Woodberg and Rob Cameron provide field tested best practices for getting the most out of SRX deployments based on their extensive field experience While their earlier book Junos Security covered the SRX platform this book focuses on the SRX Series devices themselves You'll learn how to use SRX gateways to address an array of network requirements including IP routing intrusion detection attack mitigation unified threat management and WAN acceleration Along with case studies and troubleshooting tips each chapter provides study questions and lots of useful illustrations Explore SRX components platforms and various deployment scenarios Learn best practices for configuring SRX's core networking features Leverage SRX system services to attain the best operational state Deploy SRX in transparent mode to act as a Layer 2 bridge Configure troubleshoot and deploy SRX in a highly available manner Design and configure an effective security policy in your network Implement and configure network address translation NAT types Provide security against deep threats with AppSecure intrusion protection services and unified threat management tools

**Windows Vista Administration** Brian Culp, 2007 In plain English that puts concepts in proper context this book gives readers a better understanding of Vista's innovations and capabilities teaches administrators how to leverage Vista to increase worker productivity and demonstrates how the system can best protect sensitive data

Linux iptables Pocket Reference Gregor N. Purdy, 2004-08-25 Firewalls Network Address Translation NAT network logging and accounting are all provided by Linux's Netfilter system also known by the name of the command used to administer it iptables The iptables interface is the most sophisticated ever offered on Linux and makes

Linux an extremely flexible system for any kind of network filtering you might do Large sets of filtering rules can be grouped in ways that makes it easy to test them and turn them on and off Do you watch for all types of ICMP traffic some of them quite dangerous Can you take advantage of stateful filtering to simplify the management of TCP connections Would you like to track how much traffic of various types you get This pocket reference will help you at those critical moments when someone asks you to open or close a port in a hurry either to enable some important traffic or to block an attack The book will keep the subtle syntax straight and help you remember all the values you have to enter in order to be as secure as possible The book has an introductory section that describes applications followed by a reference encyclopaedic section with all the matches and targets arranged alphabetically

*IPv6 Security* Scott Hogg, Eric Vyncke, 2008-12-11 IPv6 Security Protection measures for the next Internet Protocol As the world's networks migrate to the IPv6 protocol networking professionals need a clearer understanding of the security risks threats and challenges this transition presents In IPv6 Security two of the world's leading Internet security practitioners review each potential security issue introduced by IPv6 networking and present today's best solutions IPv6 Security offers guidance for avoiding security problems prior to widespread IPv6 deployment The book covers every component of today's networks identifying specific security deficiencies that occur within IPv6 environments and demonstrating how to combat them The authors describe best practices for identifying and resolving weaknesses as you maintain a dual stack network Then they describe the security mechanisms you need to implement as you migrate to an IPv6 only network The authors survey the techniques hackers might use to try to breach your network such as IPv6 network reconnaissance address spoofing traffic interception denial of service and tunnel injection The authors also turn to Cisco products and protection mechanisms You learn how to use Cisco IOS and ASA firewalls and ACLs to selectively filter IPv6 traffic You also learn about securing hosts with Cisco Security Agent 6.0 and about securing a network with IOS routers and switches Multiple examples are explained for Windows Linux FreeBSD and Solaris hosts The authors offer detailed examples that are consistent with today's best practices and easy to adapt to virtually any IPv6 environment Scott Hogg CCIE No 5133 is Director of Advanced Technology Services at Global Technology Resources Inc GTRI He is responsible for setting the company's technical direction and helping it create service offerings for emerging technologies such as IPv6 He is the Chair of the Rocky Mountain IPv6 Task Force Eric Vyncke Cisco Distinguished System Engineer consults on security issues throughout Europe He has 20 years experience in security and teaches security seminars as a guest professor at universities throughout Belgium He also participates in the Internet Engineering Task Force IETF and has helped several organizations deploy IPv6 securely Understand why IPv6 is already a latent threat in your IPv4 only network Plan ahead to avoid IPv6 security problems before widespread deployment Identify known areas of weakness in IPv6 security and the current state of attack tools and hacker skills Understand each high level approach to securing IPv6 and learn when to use each Protect service provider networks perimeters LANs and host server connections Harden IPv6



network devices against attack Utilize IPsec in IPv6 environments Secure mobile IPv6 networks Secure transition mechanisms in use during the migration from IPv4 to IPv6 Monitor IPv6 security Understand the security implications of the IPv6 protocol including issues related to ICMPv6 and the IPv6 header structure Protect your network against large scale threats by using perimeter filtering techniques and service provider focused security practices Understand the vulnerabilities that exist on IPv6 access networks and learn solutions for mitigating each This security book is part of the Cisco Press Networking Technology Series Security titles from Cisco Press help networking professionals secure critical data and resources prevent and mitigate network attacks and build end to end self defending networks Category Networking Security Covers IPv6 Security     **IPv6 Essentials, 2nd Edition** Silvia Hagen,2006 IPv6 Essentials Second Edition provides a succinct in depth tour of all the new features and functions in IPv6 It guides you through everything you need to know to get started including how to configure IPv6 on hosts and routers and which applications currently support IPv6 The new IPv6 protocols offers extended address space scalability improved support for security real time traffic support and auto configuration so that even a novice user can connect a machine to the Internet Aimed at system and network administrators engineers network designers and IT managers this book will help you understand plan for design and integrate IPv6 into your current IPv4 infrastructure Beginning with a short history of IPv6 author Silvia Hagen provides an overview of new functionality and discusses why we need IPv6 Hagen also shares exhaustive discussions of the new IPv6 header format and Extension Headers IPv6 address and ICMPv6 message format Security QoS Mobility and last but not least offers a Quick Start Guide for different operating systems IPv6 Essentials Second Edition also covers In depth technical guide to IPv6 Mechanisms and Case Studies that show how to integrate IPv6 into your network without interruption of IPv4 services Routing protocols and upper layer protocols Security in IPv6 concepts and requirements Includes the IPSEC framework and security elements available for authentication and encryption Quality of Service covers the elements available for QoS in IPv6 and how they can be implemented Detailed discussion of DHCPv6 and Mobile IPv6 Discussion of migration cost and business case Getting started on different operating systems Sun Solaris Linux BSD Windows XP and Cisco routers Whether you re ready to start implementing IPv6 today or are planning your strategy for the future IPv6 Essentials Second Edition will provide the solid foundation you need to get started Silvia s look at IPv6 is always refreshing as she translates complex technology features into business drivers and genuine end user benefits to enable building new business concepts based on end to end models Latif Ladid President IPv6 Forum Chair EU IPv6 Task Force

## **Ipv6 Essentials Silvia Hagen** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Ipv6 Essentials Silvia Hagen**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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