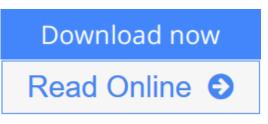# Juniper Networks Reference Guide: JUNOS Routing, Configuration, and Architecture: JUNOS Routing, Configuration, and Architecture

By Thomas M. Thomas II, Doris Pavlichek, Lawrence H. Dwyer III, Rajah Chowbay, Wayne W. Downing III, James Sonderegger

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This text attempts to provide a much-needed implementation guide to Juniper networks. It features detailed examples and case studies and covers all the basics for beginners, while challenging experiences users with tested configuration examples throughout.

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Editorial Review

From the Back Cover

Juniper Networks® Reference Guide is the ideal implementation guide to the Juniper Networks® family of Internet routers and the network operating system JUNOS™. With concise explanations of internetworking theory and detailed examples, this book teaches readers how to configure, deploy, and maintain their Juniper Networks routing solutions. Experienced JUNOS engineers will benefit from the tested configuration examples, which they can apply to their own networks. Those new to the JUNOS Internet software will find everything they need to pass the Juniper Networks JNCIS™ certification exam.

Essential topics covered include:

- An introduction to the core technologies of Juniper Networks, including their role in Carrier Class routing
- System configuration, from the installation of a Juniper Networks router to the functional inclusion of network management and security
- Interface and routing protocol configurations, including internal routing protocols such as OSPF and IS-IS, as well as extensive discussions of external routing protocols like BGP
- Explorations of advanced router operation and configuration, covering routing policies, MPLS, VPNs, and multicast

Juniper Networks® Reference Guide also contains information about the entire range of products and technologies behind key Internet building block technologies, giving readers an inside look not found in other books. Whether you are studying to become a JNCIE, need to maintain a multivendor routing solution, or are simply curious about Cisco System's competitor, this book is your key to the world of Juniper Networks.

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About the Author

Thomas M. Thomas II, founder of NetCerts.com (now CCPREP.com) and the International Network Resource Group (www.ingri.net), is currently working for Hired Guns. He holds Cisco Certified Internetworking Expert (CCIE #9360), Certified Cisco Systems Instructor (CCSI#21702), CCNP, CCDA, and CCNA certifications. Tom is a prolific author whose publications include *OSPF Network Design Solutions* (Cisco Press, 1999) and other networking books.

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James W. Sonderegger holds a B.S. in political science and is a Juniper Networks Certified Internet Specialist (JNCIS) as well as a Juniper Networks Authorized Trainer (JNAT). He also holds Cisco and Ericsson proprietary certifications. James currently works as a course developer and senior instructor for Ericsson Training.

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This book is designed to be an introduction to the Juniper Networks family of Internet routers and the Juniper Networks Operating System (JUNOS). During the past several years, Juniper Networks has grown immensely and captured a large share of the Internet-router market, replacing Cisco in advanced routing solutions. Independent organizations using industry-recognized test standards have identified Juniper Networks as the leader in Internet and carrier-class core routing solutions. They have taken this lead and developed an extremely effective router architecture and command-line interface (CLI) to become the single largest threat to the dominance of Cisco Systems.

There is no doubt that the bookshelves are seeing more and more space dedicated to the Juniper Networks product line. This book stands apart from the others because of its range and depth: It covers the basics of Juniper Networks' product line, provides concise explanations of internetworking theory, and contains detailed examples that will enable a network engineer to configure the products. The chapters contained herein walk readers through how Juniper Networks was formed and the industry need that its foundation answered. A little background is good, but most network engineers want the technical details of the topic. This book delves immediately into the architecture of a Juniper Networks router and the intricacies of JUNOS. If you are new to JUNOS, these chapters cover all you need to know, from logging into the router to ensuring you have enough knowledge to pass the Juniper Networks Certified Internet Specialist (JNCIS) examination. If you are experienced, then the tested configuration examples provided throughout the book will challenge you and provide vital references for application in your network.

Juniper Networks is rapidly becoming the leader in shaping technology that affects the Internet. This book focuses on the Internet building-block technologies, such as Border Gateway Protocol (BGP), and policies; however, we also look to the future with in-depth coverage of multiprotocol label switching (MPLS) and virtual private networks (VPNs). In addition, this book contains a high level of information about the entire range of products and the technologies behind them. This powerful approach gives you a deeper understanding of the business drives and corporate culture that other books will not provide.Intended Audience

This book is written for those who desire to learn more about JUNOS and Juniper Networks routers. It does not matter if you are new to Juniper Networks routers or preparing to become a Juniper Networks Certified Internet Expert (JNCIE)--this book has something for everyone.

* People involved in networking and interested in learning how to design and deploy Juniper-based network solutions
* Individuals who need to deploy or maintain multivendor routing solutions
* Networking professionals interested in learning what the primary competitor of Cisco is doing and how its networks are designed
* Cisco-certified engineers who want to remain current in a changing market

This book will serve as an excellent tool for building the necessary knowledge level required to operate and configure Juniper Networks routers, as well as to aid in preparing for the Juniper Networks Certification Exams.Organization of This Book

This book is divided into four parts. Part I, "Juniper Networks: An Overview," introduces readers to the strong entry of Juniper Networks into carrier-class routing and discusses the company's efforts in education and certification with a brief review of core technologies. Part II, "System Configuration," covers all the steps needed to install a Juniper Networks router and make it function to include network management and security.

Part III, "Interface and Routing Protocol Configuration," covers internal routing protocols, such as Open Shortest Path First (OSPF) and Intermediate System to Intermediate System (IS-IS), and provides an extensive discussion of external gateway protocols, such as BGP. Part IV, "Advanced Router Operation and Configuration," covers routing policies, along with MPLS, VPNs, and Multicast.How to Use This Book

Many chapters end with case studies. These case studies are taken from real-world router configurations and range from examples of implementing solutions using Juniper Networks routers to templates that can be easily applied to your network or used to guide you in preparation for the JNCIE.

Each chapter has a bibliography that lists additional texts, Web sites, and the appropriate standards relevant to each chapter. The chapters reference many Requests for Comments (RFCs). The Internet Engineering Task Force (IETF) is the body responsible for producing standards for Internet Protocol (IP) and routing protocols used for IP networks. The IETF drafts the RFCs that can then be implemented as the standard for that protocol or IP service. To access RFCs and drafts, go to the IETF Web site at ietf. These standards are current at the time of this writing and are located online at rfc-editor/rfc.html. It is our hope that you can use this book as a reference for your network today and in the future. Good luck.Thomas M. Thomas II
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Lawrence H. Dwyer III
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Users Review

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