Cisco Networks Engineers Handbook Of Routing Switching And Security With Ios Nx Os And Asa

Routing and Switching Essentials V6 Companion Guide
Cisco Digital Network Architecture
Cisco ISP Essentials
IP Routing on Cisco IOS, IOS XE, and IOS XR
Network Basics Course Booklet
Cisco Network Security Troubleshooting Handbook
Network Programmability and Automation Fundamentals
Cisco Firewalls
CCNA Self-study
Cisco Software-Defined Wide Area Networks
Network Warrior
Top-down Network Design
IP Multicast
Cisco OSPF Command and Configuration Handbook
The Engineering Handbook
Network Consultants Handbook
Programming and Automating Cisco Networks
Cisco Software-Defined Access
Cisco IP Routing Handbook
Cisco Routers for IP Networking Black Book
Network Automation Made Easy
Advances in Computer Science for Engineering and Education III
IP Design for Mobile Networks

CCDP Self-Study
Cisco Networking Essentials
Enhanced IP Services for Cisco Networks
Cisco CCNP Route Simplified
Automate Your Network: Introducing the Modern Approach to Enterprise Network Management
CCNA and Beyond
Network Programmability and Automation
Cisco Networks
Cisco CCNA Simplified
CCNP Data Center Application Centric Infrastructure 300-620 DCACI Official Cert Guide
Instrument Engineers' Handbook, Volume 3
CCNP Security Virtual Private Networks SVPN 300-730 Official Cert Guide
Understanding Cisco Networking Technologies, Volume 1
CCNA Security 210-260 Official Cert Guide
High Availability Networking with Cisco
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Routing and Switching Essentials V6 Companion Guide

Cisco Networks

Cisco authorized self-study book for CCDP® 642-871 architectures foundation learning Prepare for the CCDP ARCH exam 642-871 with the Cisco authorized self-study guide. This book teaches you how to: Understand the composition and deployment of the Cisco AVVID framework in network design Understand the composition and role of the Enterprise Composite Network Model in enterprise network design Design enterprise campus networks and their edge network connectivity to the Internet Understand and implement network management solutions in the network Integrate new technologies designed to enhance network performance and availability in the enterprise, such as high availability, QoS, multicasting, and storage and content networking Design and implement appropriate security solutions for enterprise networks Deploy wireless technologies within the enterprise Implement and design IP telephony solutions for the enterprise network CCDP Self-Study: Designing Cisco Network Architectures (ARCH) is a Cisco® authorized self-

paced learning tool. By presenting a structured format for the conceptual and intermediate design of AVVID network infrastructures, this book teaches you how to design solutions that scale from small to large enterprise networks and take advantage of the latest technologies. Whether you are preparing for the CCDP® certification or simply want to gain a better understanding of how to architect network solutions over intelligent network services to achieve effective performance, scalability, and availability, you will benefit from the foundation information presented in this book. This comprehensive book provides detailed information and easy-to-grasp tutorials on a broad range of topics related to architecture and design, including security, fine-tuning routing protocols, switching structures, and IP multicasting. To keep pace with the Cisco technological developments and new product offerings, this study guide includes coverage of wireless networking, the SAFE Blueprint, content networking, storage networking, quality of service (QoS), IP telephony, network management, and high availability networks. Design examples and sample verification output demonstrate implementation techniques. Configuration exercises, which appear in every chapter, provide a practical review of key concepts to discuss critical issues surrounding network operation. Chapter-ending review questions illustrate and help solidify the concepts presented in this book. CCDP Self-Study: Designing Cisco Network Architectures (ARCH) is part of a recommended learning path from Cisco Systems® that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit www.cisco.com/go/authorizedtraining. This volume is in the Certification Self-Study Series offered by Cisco Press®. Books in this series provide officially developed training solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations.

Cisco Digital Network Architecture Cisco Press

Explores potential approaches to improving network availability and reducing losses due to downtime. The author discusses selecting bridging and routing protocols, multihomed hosts from individual client-to-server clusters, dial backup over asynchronous and ISDN links, hub and spokes topology, connecting to service providers, alternate routing through redundant firewalls without sacrificing security, supporting legacy systems using data link switching, and disaster recovery considerations. Wherever practical, one or more specific scenarios are defined and example solutions implemented, typically using Cisco routers. Annotation copyrighted by Book News, Inc., Portland, OR.

Cisco ISP Essentials Cisco Press

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. * Master CCNP Data Center Application Centric Infrastructure DCACI 300-620 exam topics * Assess your knowledge with chapter-opening quizzes * Review key concepts with exam preparation tasks This is the eBook edition of the

CCNP Data Center Application Centric Infrastructure DCACI 300-620 Official Cert Guide. This eBook does not include access to the companion website with practice exam that comes with the print edition. CCNP Data Center Application Centric Infrastructure DCACI 300-620 Official Cert Guide presents you with an organized test-preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNP Data Center Application Centric Infrastructure DCACI 300-620 Official Cert Guide focuses specifically on the objectives for the CCNP Data Center DCACI exam. Leading Cisco data center technology expert Ammar Ahmadi shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Well regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. This official study guide helps you master all the topics on the CCNP Data Center Application Centric Infrastructure DCACI 300-620 exam. It tests your knowledge of Cisco switches in ACI mode, including • ACI fabric infrastructure • ACI packet forwarding • External network connectivity • Integrations • ACI management • ACI Anywhere CCNP Data Center Application Centric Infrastructure DCACI 300-620 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit http://www.cisco.com/web/learning/index.html

IP Routing on Cisco IOS, IOS XE, and IOS XR Cisco Press This book is a concise one-stop desk reference and synopsis of basic knowledge and skills for Cisco certification prep. For beginning and experienced network engineers tasked with building LAN, WAN, and data center connections, this book lays out clear directions for installing, configuring, and troubleshooting networks with Cisco devices. The full range of certification topics is covered, including all aspects of IOS, NX-OS, and ASA software. The emphasis throughout is on solving the real-world challenges engineers face in configuring network devices, rather than on exhaustive descriptions of hardware features. This practical desk companion doubles as a comprehensive overview of the basic knowledge and skills needed by CCENT, CCNA, and CCNP exam takers. It distills a comprehensive library of cheat sheets, lab configurations, and advanced commands that the authors assembled as senior network engineers for the benefit of junior engineers they train, mentor on the job, and prepare for Cisco certification exams. Prior familiarity with Cisco routing and switching is desirable but not necessary, as Chris Carthern, Dr. Will Wilson, Noel Rivera, and Richard Bedwell start their book with a review of the basics of configuring routers and switches. All the more advanced chapters

have labs and exercises to reinforce the concepts learned. This book differentiates itself from other Cisco books on the market by approaching network security from a hacker's perspective. Not only does it provide network security recommendations but it teaches you how to use black-hat tools such as oclHashcat, Loki, Burp Suite, Scapy, Metasploit, and Kali to actually test the security concepts learned. Readers of Cisco Networks will learn How to configure Cisco switches, routers, and data center devices in typical corporate network architectures The skills and knowledge needed to pass Cisco CCENT, CCNA, and CCNP certification exams How to set up and configure at-home labs using virtual machines and lab exercises in the book to practice advanced Cisco commands How to implement networks of Cisco devices supporting WAN, LAN, and data center configurations How to implement secure network configurations and configure the Cisco ASA firewall How to use black-hat tools and network penetration techniques to test the security of your network

Network Basics Course Booklet Networking Technology

The Network Basics Course Booklet offers a way for students enrolled in a Cisco Networking Academy Network Basics course to easily read, highlight, and review on the go, wherever the Internet is not available. The text is extracted directly from the online course, with headings that have exact page correlations to the online course. An icon system directs the reader to the online course to take full advantage of the images, labs, Packet Tracer activities, and dynamic activities. The books are intended to be used with the course.

Cisco Network Security Troubleshooting Handbook Cisco Press

The complete guide to transforming enterprise networks with Cisco DNA As networks become more complex and dynamic, organizations need better ways to manage and secure them. With the Cisco Digital Network Architecture, network operators can run entire network fabrics as a single, programmable system by defining rules that span their devices and move with their users. Using Cisco intent-based networking, you spend less time programming devices, managing configurations, and troubleshooting problems so you have more time for driving value from your network, your applications, and most of all, your users. This guide systematically introduces Cisco DNA, highlighting its business value propositions, design philosophy, tenets, blueprints, components, and solutions.Combining insider information with content previously scattered through multiple technical documents, it provides a single source for evaluation, planning, implementation, and operation. The authors bring together authoritative insights for multiple business and technical audiences. Senior executives will learn how DNA can help them drive digital transformation for competitive advantage. Technical decision-makers will discover powerful emerging solutions for their specific needs. Architects will find essential recommendations, interdependencies, and caveats for planning deployments. Finally, network operators will learn how to use DNA Center's modern interface to streamline, automate, and improve virtually any network management task. · Accelerate the digital transformation of your business by adopting an intent-based network architecture that is open, extensible, and programmable · Integrate virtualization, automation, analytics, and cloud services to streamline operations and create new business opportunities · Dive deep into hardware, software, and

protocol innovations that lay the programmable infrastructure foundation for DNA · Virtualize advanced network functions for fast, easy, and flexible deployments · Translate business intent into device configurations and simplify, scale, and automate network operations using controllers · Use analytics to tune performance, plan capacity, prevent threats, and simplify troubleshooting · Learn how Software-Defined Access improves network flexibility, security, mobility, visibility, and performance · Use DNA Assurance to track the health of clients, network devices, and applications to reveal hundreds of actionable insights · See how DNA Applic...

Network Programmability and Automation Fundamentals Cisco Press

Modernize and optimize network management with APIs and automation Legacy network management approaches don't scale adequately and can't be automated well. This guide will help meet tomorrow's challenges by adopting network programmability based on Application Programming Interfaces (APIs). Using these techniques, you can improve efficiency, reliability, and flexibility; simplify implementation of high-value technologies; automate routine administrative and security tasks; and deploy services far more rapidly. Four expert authors help you transition from a legacy mindset to one based on solving problems with software. They explore today's emerging network programmability and automation ecosystem; introduce each leading programmable interface; and review the protocols, tools, techniques, and technologies that underlie network programmability. You'll master key concepts through hands-on examples you can run using Linux, Python, Cisco DevNet sandboxes, and other easily accessible tools. This guide is for all network architects, engineers, operations, and software professionals who want to integrate programmability into their networks. It offers valuable background for Cisco DevNet certification—and skills you can use with any platform, whether you have software development experience or not. Master core concepts and explore the network programmability stack Manage network software and run automation scripts in Linux environments Solve real problems with Python and its Napalm and Nornir automation frameworks Make the most of the HTTP protocol, REST architectural framework, and SSH Encode your data with XML, JSON, or YAML Understand and build data models using YANG that offer a foundation for model-based network programming Leverage modern network management protocols, from gRPC and gNMI to NETCONF and RESTCONF Meet stringent service provider KPIs in large-scale, fast-changing networks Program Cisco devices running IOS XE, IOS XR, and NX-OS as well as Meraki, DNA Center, and Webex platforms Program non-Cisco platforms such as Cumulus Linux and Arista EOS Go from “zero to hero” with Ansible network automation Plan your next steps with more advanced tools and technologies

Cisco Firewalls Cisco Press

Leading Cisco authority Todd Lammle helps you gain insights into the new core Cisco network technologies Understanding Cisco Networking Technologies is an important resource for those preparing for the new Cisco Certified Network Associate (CCNA) certification exam as well as IT professionals looking to understand Cisco’s latest networking products, services, and technologies. Written by bestselling author and internationally

recognized Cisco expert Todd Lammle, this in-depth guide provides the fundamental knowledge required to implement and administer a broad range of modern networking and IT infrastructure. Cisco is the worldwide leader in network technologies—80% of the routers on the Internet are Cisco. This authoritative book provides you with a solid foundation in Cisco networking, enabling you to apply your technical knowledge to real-world tasks. Clear and accurate chapters cover topics including routers, switches, controllers and other network components, physical interface and cabling, IPv6 addressing, discovery protocols, wireless infrastructure, security features and encryption protocols, controller-based and software-defined architectures, and more. After reading this essential guide, you will understand: Network fundamentals Network access IP connectivity and IP services Security fundamentals Automation and programmability Understanding Cisco Networking Technologies is a must-read for anyone preparing for the new CCNA certification or looking to gain a primary understanding of key Cisco networking technologies.

CCNA Self-study Createspace Independent Publishing Platform The definitive Cisco SD-Access resource, from the architects who train Cisco's own engineers and partners This comprehensive book guides you through all aspects of planning, implementing, and operating Cisco Software-Defined Access (SD-Access). Through practical use cases, you'll learn how to use intent-based networking, Cisco ISE, and Cisco DNA Center to improve any campus network's security and simplify its management. Drawing on their unsurpassed experience architecting solutions and training technical professionals inside and outside Cisco, the authors explain when and where to leverage Cisco SD-Access instead of a traditional legacy design. They illuminate the fundamental building blocks of a modern campus fabric architecture, show how to design a software-defined campus that delivers the most value in your environment, and introduce best practices for administration, support, and troubleshooting. Case studies show how to use Cisco SD-Access to address secure segmentation, plug and play, software image management (SWIM), host mobility, and more. The authors also present full chapters on advanced Cisco SD-Access and Cisco DNA Center topics, plus detailed coverage of Cisco DNA monitoring and analytics. * Learn how Cisco SD-Access addresses key drivers for network change, including automation and security * Explore how Cisco DNA Center improves network planning, deployment, evolution, and agility * Master Cisco SD-Access essentials: design, components, best practices, and fabric construction * Integrate Cisco DNA Center and Cisco ISE, and smoothly onboard diverse endpoints * Efficiently operate Cisco SD-Access and troubleshoot common fabric problems, step by step * Master advanced topics, including multicast flows, Layer 2 flooding, and the integration of IoT devices * Extend campus network policies to WANs and data center networks * Choose the right deployment options for Cisco DNA Center in your environment * Master Cisco DNA Assurance analytics and tests for optimizing the health of clients, network devices, and applications

Cisco Software-Defined Wide Area Networks Companion Guide A complete resource for assessing, auditing, analyzing, and evaluating any network environment With "Network Consultants Handbook, you will Learn from network audit and evaluation

guidelines that aid in data gathering and analysis of network environments Work with tables and calculations that help provide near-real-time answers to internetworking issues and challenges Learn network diagramming tips that aid consultants and engineers in preparing consistent drawings for in-house documentation Discover how specific internetworking technologies fit into a design to create a networking solution for your customer Network consultants and engineers in today's industry continually face the challenge of assessing, auditing, and reviewing existing networks. Documenting, reviewing, and analyzing these changes in a customer's network is more challenging today than in the past, partly because of the explosive growth of converged applications and the Internet. Consultants and engineers often reinvent the wheel to gather and analyze relevant network information, particularly when examining a client's network while having little or no background information. "Network Consultants Handbook is a complete resource for assessing, auditing, analyzing, and evaluating any network environment. Intended for anyone who designs, manages, sells, administrates, or desires to understand various internetworking technologies, "Network Consultants Handbook demonstrates where and how to gather relevant information and how to analyze and document this information. Technology overviews peel away each layer of the network to provide a complete assessment. This book prepares you with form templates to completeduring a network audit, necessary device commands to aid in obtaining necessary information, and consistent forms to aid in documentation. Networks are like snowflakes: No two are alike. This is the challenge that network consultants, engineers, managers, designers, and anyone else involved with networks must face every day. Network Consultants Handbook provides the resources you need to evaluate and design networks, either as a desktop reference resource or in the field where the tables and calculations help provide near-real-time answers to internetworking issues and challenges. Companion Web Site The companion Web site for the book contains fully downloadable versions of the data gathering and analysis templates. These templates offer an easy-to-complete solution to gathering the data you need to complete your analysis of network environments. This book is part of the Cisco Press Networking Technologies Series, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Pearson Education

. Enhanced IP Services for Cisco Networks presents highly complex information in a relaxed, informal manner to allow for ease of understanding and application. Sample router configurations are integrated throughout the book with the intent to show what can be managed, explain reasons for deployment, and instruct on possible configuration alternatives. A comprehensive analysis of routing protocols, the book's primary focus always circles back to the management and deployment of these routing protocols-a unique approach of this subject today.

Network Warrior Createspace Independent Publishing Platform

Cisco certifications are considered the most prestigious in the networking community. With a combination of easy-to-understand theory, real world explanations, and comprehensive

hands-on labs, this edition is a powerful study tool for the certification exams.
Top-down Network Design Cisco Press
Learn introductory networking concepts and technologies with the CCNA self-study guide. This foundation knowledge is essential for success on the CCNA exam, and contains an introduction to the most popular networking concepts, technologies, and devices.
IP Multicast Cisco Press
Cisco NetworksApress
Cisco OSPF Command and Configuration Handbook Cisco Press
Helping users efficiently analyze current and potential network security problems and identifying viable solutions, this reference is organized in a modular fashion so readers can flip directly to the needed information. Case studies serve to illustrate how problems are resolved in the real world.
The Engineering Handbook Springer Nature
IP Multicast Volume I: Cisco IP Multicast Networking Design, deploy, and operate modern Cisco IP multicast networks IP Multicast, Volume I thoroughly covers basic IP multicast principles and routing techniques for building and operating enterprise and service provider networks to support applications ranging from videoconferencing to data replication. After briefly reviewing data communication in IP networks, the authors thoroughly explain network access, Layer 2 and Layer 3 multicast, and protocol independent multicast (PIM). Building on these essentials, they introduce multicast scoping, explain IPv6 multicast, and offer practical guidance for IP multicast design, operation, and troubleshooting. Key concepts and techniques are illuminated through real-world network examples and detailed diagrams. Reflecting extensive experience working with Cisco customers, the authors offer pragmatic discussions of common features, design approaches, deployment models, and field practices. You'll find everything from specific commands to start-to-finish methodologies: all you need to deliver and optimize any IP multicast solution. IP Multicast, Volume I is a valuable resource for network engineers, architects, operations technicians, consultants, security professionals, and collaboration specialists. Network managers and administrators will find the implementation case study and feature explanations especially useful. · Review IP multicasting applications and what makes multicast unique · Understand IP multicast at the access layer, from layered encapsulation to switching multicast frames · Work with Layer 2 switching domains, IPv4 group addresses, and MAC address maps · Utilize Layer 3 multicast hosts and understand each PIM mode · Implement basic forwarding trees and rendezvous points · Compare multicast forwarding modes: ASM, SSM, and PIM Bidir · Plan and properly scope basic multicast networks · Choose your best approach to forwarding replication · Apply best practices for security and resiliency · Understand unique IPv6 deployment issues · Efficiently administer and troubleshoot your IP multicast network This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. Category: Networking Covers: IP Multicast
Network Consultants Handbook "O'Reilly Media, Inc."
This book comprises high-quality refereed research papers

presented at the Third International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2020), held in Kyiv, Ukraine, on 21–22 January 2020, organized jointly by National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”, National Aviation University, and the International Research Association of Modern Education and Computer Science. The topics discussed in the book include state-of-the-art papers in computer science, artificial intelligence, engineering techniques, genetic coding systems, deep learning with its medical applications, and knowledge representation with its applications in education. It is an excellent source of references for researchers, graduate students, engineers, management practitioners, and undergraduate students interested in computer science and their applications in engineering and education.

Programming and Automating Cisco Networks Addison Wesley Longman

An Essential Guide to Understanding and Implementing IP Routing Protocols Cisco''s authoritative single-source guide to IP routing protocols for enterprise and service provider environments Service providers and large enterprises are converging on a common IP infrastructure that supports rapid deployment of high-value services. Demand is soaring for highly skilled IP network engineers who can implement and run these infrastructures. Now, one source combines reliable knowledge about contemporary IP routing protocols and expert hands-on guidance for using them with Cisco IOS, IOS XE, and IOS XR operating systems. After concisely reviewing the basics, three Cisco experts fully explain static routing, EIGRP, OSPF, IS-IS, and BGP routing protocols. Next, they introduce advanced routing with policies and redistribution, sophisticated BGP-based traffic engineering, and multicast. They present comprehensive coverage of IPv6, from its multicast implementation to its completely revamped address structure. Finally, they discuss advanced high availability techniques, including fast routing convergence. IP Routing on Cisco IOS, IOS XE, and IOS XR presents each protocol conceptually, with intuitive illustrations, realistic configurations, and appropriate output. To help IOS users master IOS XE and IOS XR, differences in operating systems are explicitly identified, and side-by-side feature command references are presented. All content fully aligns with Learning@Cisco, providing efficient self-study for multiple Cisco Career Certifications, including CCNA®/CCNP®/CCIE® Service Provider, CCIE Routing & Switching, Cisco IOS XR Specialist Certification, and the routing components of several additional Cisco Certifications. Brad Edgeworth, CCIE No. 31574 (R&S & SP) has been with Cisco since 2011 as Systems Engineer and Technical Leader. Formerly a network architect and consultant for various Fortune® 500 companies, his 18 years of IT experience includes extensive architectural and operational work in enterprise and service provider environments. He is a Cisco Live distinguished speaker presenting on IOS XR. Aaron Foss, CCIE No. 18761 (R&S & SP), a High Touch Engineer with the Cisco Focused Technical Support (FTS) organization, works with large service providers to troubleshoot MPLS, QoS, and IP routing issues. He has more than 15 years of experience designing, deploying, and troubleshooting IP networks. Ramiro Garza Rios, CCIE No. 15469 (R&S, SP, and Security), Senior Network Consulting Engineer with

Cisco Advanced Services, plans, designs, implements, and optimizes next-generation service provider networks. Before joining Cisco in 2005, he was Network Consulting and Presales Engineer for a Cisco Gold Partner in Mexico, where he planned and deployed both enterprise and service provider networks. Foreword by Norm Dunn, Senior Product Manager, Learning@Cisco Global Product Management, Service Provider Portfolio Understand how IOS®, IOS XE, and IOS XR operating systems compare Master IPv4 concepts, addressing structure, and subnetting Learn how routers and routing protocols work, and how connected networks and static routes behave from the router''s perspective Work with EIGRP and distance vector routing Deploy basic and advanced OSPF, including powerful techniques for organizing routing domains, path selection, and optimization Compare IS-IS with OSPF, and implement advanced IS-IS multilevel routing, optimization, and path selection Make the most of BGP and route manipulation, including IOS/IOS XE route maps and IOS XR''s highly scalable Route Policy Language Use advanced policy-based route manipulation and filtering Implement route redistribution: rules, potential problems, and solutions Leverage BGP communities, summaries, and other router conservation techniques Discover how IPv6 changes IP address and command structure Establish highly efficient multicast routing in IPv4 and IPv6 environments Systematically improve network availability and operational uptime through event driven detection and fast routing convergence

Cisco Software-Defined Access Apress

Like sysadmins before them, network engineers are finding that they cannot do their work manually anymore. As the field faces new protocols, technologies, delivery models, and a pressing need for businesses to be more agile and flexible, network automation is becoming essential. This practical guide shows network engineers how to use a range of technologies and tools—including Linux, Python, JSON, and XML—to automate their systems through code. Network programming and automation will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity. Through the course of the book, you'll learn the basic skills and tools you need to make this critical transition. This book covers: Python programming basics: data types, conditionals, loops, functions, classes, and modules Linux fundamentals to provide the foundation you need on your network automation journey Data formats and models: JSON, XML, YAML, and YANG for networking Jinja templating and its applicability for creating network device configurations The role of application programming interfaces (APIs) in network automation Source control with Git to manage code changes during the automation process How Ansible, Salt, and StackStorm open source automation tools can be used to automate network devices Key tools and technologies required for a Continuous Integration (CI) pipeline in network operations

Cisco IP Routing Handbook Cisco Press

"Cisco OSPF Command and Configuration Handbook is a clear, concise, and complete source of documentation for all Cisco IOS Software OSPF commands. The way you use this book will depend on your objectives. If you are preparing for the CCIE written and lab exams, then this book can be used as a laboratory guide to learn the purpose and proper use of every OSPF command. If you

are a network designer, then this book can be used as a ready reference for any OSPF command. Author Bill Parkhurst provides concise snapshots of every command with regard to command purpose, usage, syntax explanation, initial introduction in Cisco IOS Software, and cross references to related commands also covered in the book. This book covers many OSPF topic areas, including interface configuration, OSPF area configuration, route filtering, OSPF process configuration, route cost, default route generation, redistribution, administrative distance, OSPF neighbor relationships, route summarization, and show, debug, and clear commands"--Resource description page.