

Router Icons

Simon May

IP Routing on Cisco IOS, IOS XE, and IOS XR Brad Edgeworth, Aaron Foss, Ramiro Garza Rios, 2015 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

Angular for Enterprise Applications Doguhan Uluca, 2024-01-31 Harness the full power of Angular 17 with up-to-date tools and enterprise-level best practices Purchase of the print or Kindle book includes a free PDF eBook Key Features Dive straight into the most relevant topics that will help you build large, complex, and high-performance web applications Find updated examples, projects, and an overview of the latest tools and updates - including Jest, Cypress, NgRx workspace, Apollo GraphQL, and Angular Dev Tools Get to grips with reactive code and learn how to resolve potential issues before they crop up Book DescriptionIf you're looking to upskill and build sophisticated, minimalist web applications suited for enterprise use, Angular for Enterprise Applications is your guide to the next level of engineering mastery. In its third edition, this Angular book distils hard-earned lessons into a lucid roadmap for success. Adopting a pragmatic approach founded on a robust technical base, you'll utilize both JavaScript and TypeScript fundamentals. You'll also embrace agile engineering coding principles and learn to architect optimally sized enterprise solutions employing the freshest concepts in Angular. You'll gradually build upon this foundation through insightful recipes, sample apps, and crystal-clear explanations. You'll master authentication and authorization and achieve optimal performance through reactive programming and lazy loading, build complex yet flexible UIs with Router-first principles, and then integrate with backend systems using REST and GraphQL APIs. You'll cover modern tools like RxAngular, Qwik, and Signals. You'll construct master/detail views using data tables and NgRx for state management. You'll explore DevOps using Docker and build CI/CD pipelines necessary for high-performance teams. By the end of this book, you'll be proficient in leveraging Angular in enterprise and design robust systems that scale effortlessly. What you will learn Best practices for architecting and leading enterprise projects Minimalist, value-first approach to delivering web apps How standalone components, services, providers, modules, lazy loading, and directives work in Angular Manage your app's data reactivity using Signals or RxJS State management for your Angular apps with NgRx Angular ecosystem to build and deliver enterprise applications Automated testing and CI/CD to deliver high quality apps Authentication and authorization Building role-based access control with REST and GraphQL Who this book is for This book is for mid-to-senior developers looking to gain mastery by learning how to write, test, and deploy Angular in an enterprise environment. Working experience with JavaScript is a prerequisite, and a familiarity with TypeScript and RESTful APIs will help you understand the topics covered in this book more effectively

Programming PC Connectivity Applications for Symbian OS Ian McDowall, 2005-06-10 The only guide for developers and power users on how to build PC connectivity applications for Symbian OS. This unique handbook provides all the information that is needed for the job. Fully worked examples and a do's and don'ts section provide design recommendations and expose common pitfalls giving a highly practical focus. Explains the relevant parts of the protocols that need to be used Demonstrates how to create your own device side components to provide new services Shows how to handle custom servers and socket servers

Building Large-Scale Web Applications with Angular Chandermani Arora, Kevin Hennessy, Christoffer Noring, Doguhan Uluca, 2018-12-21 A definitive guide on frontend development with Angular from design to deployment Key FeaturesDevelop web applications from scratch using Angular and TypeScriptExplore reactive programming principles and RxJS to develop and test apps easilyStudy continuous integration and deployment on the AWS cloudBook Description If you have been burnt by unreliable JavaScript frameworks before, you will be amazed by the maturity of the Angular platform. Angular enables you to build fast, efficient, and real-world web apps. In this Learning Path, you'll learn Angular and to deliver high-quality and production-grade Angular apps from design to deployment. You will begin by creating a simple fitness app, using the building blocks of Angular, and make your final app, Personal Trainer, by morphing the workout app into a full-fledged personal workout builder and runner with an advanced directive building - the most fundamental and powerful feature of Angular. You will learn the different ways of architecting Angular applications using RxJS, and some of the patterns that are involved in it. Later you'll be introduced to the router-first architecture, a seven-step approach to designing and developing mid-to-large line-of-business apps, along with popular recipes. By the end of this book, you will be familiar with the scope of web development using Angular, Swagger, and Docker, learning patterns and practices to be successful as an individual developer on the web or as a team in the Enterprise. This Learning Path includes content from the following Packt products: Angular 6 by Example by Chandermani Arora, Kevin HennessyArchitecting Angular Applications with Redux, RxJS, and NgRx by Christoffer NoringAngular 6 for Enterprise-Ready Web Applications by Doguhan UlucaWhat you will learnDevelop web applications from scratch using Angular and TypeScriptExplore reactive programming principles, RxJS to develop and test apps efficientlyStudy continuous integration and deployment your Angular app on the AWS cloudWho this book is for If you're a JavaScript or frontend developer looking to gain comprehensive experience of using Angular for end-to-end enterprise-ready applications, this Learning Path is for you.

Angular 6 for Enterprise-Ready Web Applications Doguhan Uluca, 2018-05-31 If you have been burnt by unreliable JavaScript frameworks before, you will be amazed by the maturity of the Angular platform. If you find it difficult to start new projects and pick the right tools and frameworks, frequently run into bugs, or find yourself lost in a sea of terms such as containers, Kanban, and Continuous Integration, then ...

Nagios Core Administration Cookbook Tom Ryder, 2016-02-29 Over 90 hands-on recipes that will employ Nagios Core as the anchor of monitoring on your network About This Book Master the advanced configuration techniques of Nagios Core to model your network better by improving hosts, services, and contacts Filter and improve the notifications that Nagios Core sends in response to failed checks, which can greatly assist you when diagnosing problems Pull Nagios Core's data into a database to write clever custom reports of your own devise Who This Book Is For If you are a network or system administrator and are looking for instructions and examples on working with Nagios Core, then this book is for you. Some basic shell command-line experience is required, and some knowledge of scripting would be helpful when we discuss how plugins work. What You Will Learn Manage the configuration of Nagios Core with advanced techniques to achieve fine detail in your checks Find, install, and even write your own check plugins Filter notifications to send them to the right people or programs at the right time Work around difficult network accessibility issues and delegate checks to other machines Tweak a Nagios Core server to achieve both high performance and redundancy in case of disaster Process the results of checks performed by other machines to monitor backups and similar processes Extend Nagios Core to allow advanced scripting, reporting, and network visualization behavior In Detail Nagios Core is an open source monitoring framework suitable for any network that ensures both internal and customer-facing services are running correctly and manages notification and reporting behavior to diagnose and fix outages promptly. It allows very fine configuration of exactly when, where, what, and how to check network services to meet both the uptime goals of your network and systems team and the needs of your users. This book shows system and network administrators how to use Nagios Core to its fullest as a monitoring framework for checks on any kind of network services, from the smallest home network to much larger production multi-site services. You will discover that Nagios Core is capable of doing much more than pinging a host or to see whether websites respond. The recipes in this book will demonstrate how to leverage Nagios Core's advanced configuration, scripting hooks, reports, data retrieval, and extensibility to integrate it with your existing systems, and to make it the rock-solid center of your network monitoring world. Style and approach Each chapter contains a set of step-by-step recipes to perform an example of a commonly performed task related to network administration. The book begins by focusing closely on the properties and configuration of Nagios Core itself, and gradually moves on to other pieces of software that can support, manage, and extend the system.

Microsoft Windows Vista Help Desk Andy Walker, 2003-08-26 What do you do when your squeaky new Microsoft operating system doesn't work? You moan and complain and get personal about Bill Gates's haircut while you wait for Microsoft to figure it out and issue a fix in a hefty service pack in a year or so. Or you could take the smart way out and use this definitive troubleshooting book that will cure your illin' Vista PC in no time flat. This book exposes the flaws and nuances of Vista and teaches you how to work with its quirky personality and fix the problems you have with it so you can get back to your regularly scheduled life. Microsoft Windows Vista Help Desk digs deep inside the operating system to unveil expert-level tools and techniques. It offers a step-by-step, head-patting, hand-holding experience on how to use Vista as if you are a trained professional. This book covers hiccups, coughs, crashes, blue screens, reboots, system failures, malware infections, and other forehead-aching issues that make happy users clench their fists and profane the good name of the sweet and kind geeks in Redmond, Washington. Andy Walker is one of North America's top technology journalists and is the author of Que's Absolute Beginner's Guide to Security, Spam, Spyware & Viruses. Since 1995, he has written about technology for dozens of newspapers, magazines, and websites. His personal technology advice column was syndicated across Canada and today it is published at Cyberwalker.com, where millions read the advice annually. He hosted the internationally syndicated TV show Call for Help with Leo Laporte and now he is the star of his own DVD series at GettingStartedVideo.com. He also co-hosts Lab Rats (labrats.tv), a massively popular video podcast. Andy was born in the UK and now lives in Toronto with two cats and a finely tuned Vista computer. Troubleshoot your Vista PC every inch of the way—including Internet problems, printing problems, network problems, and user interface problems Use the troubleshooting flowcharts to step your way through a problem to find the right solution Designed for home users, cubicle dwellers, and students everywhere Quickly sort through complex problems to determine whether Vista, your hardware, or a random piece of software is the culprit Track down and eradicate viruses, spyware, and other Internet nasties Deal with annoying networking issues that have brought your wireless network to its knees Set up and troubleshoot multiple user accounts so that you, your spouse, your kids, and even the family pooch can share the same PC Category: Microsoft Operating System Covers: Microsoft Windows Vista User Level: Beginning-Intermediate

Implementing and Administering Cisco Solutions: 200-301 CCNA Exam Guide Glen D. Singh, 2020-11-13 Prepare to take the Cisco Certified Network Associate (200-301 CCNA) exam and get to grips with the essentials of networking, security, and automation Key Features Secure your future in network engineering with this intensive boot camp-style certification guide Gain knowledge of the latest trends in Cisco networking and security and boost your career prospects Design and implement a wide range of networking technologies and services using Cisco solutions Book Description In the dynamic technology landscape, staying on top of the latest technology trends is a must, especially if you want to build a career in network administration. Achieving CCNA 200-301 certification will validate your knowledge of networking concepts, and this book will help you to do just that. This exam guide focuses on the fundamentals to help you gain a high-level understanding of networking, security, IP connectivity, IP services, programmability, and automation. Starting with the functions of various networking components, you'll discover how they are used to build and improve an enterprise network. You'll then delve into configuring networking devices using a command-line interface (CLI) to provide network access, services, security, connectivity, and management. The book covers important aspects of network engineering using a variety of hands-on labs and real-world scenarios that will help you gain essential practical skills. As you make progress, this CCNA certification study guide will help you get to grips with the solutions and technologies that you need to implement and administer a broad range of modern networks and IT infrastructures. By the end of this book, you'll have gained the confidence to pass the Cisco CCNA 200-301 exam on the first attempt and be well-versed in a variety of network administration and security engineering solutions. What you will learn Understand the benefits of creating an optimal network Create and implement IP schemes in an enterprise network Design and implement virtual local area networks (VLANs) Administer dynamic routing protocols, network security, and automation Get to grips with various IP services that are essential to every network Discover how to troubleshoot networking devices Who this book is for This guide is for IT professionals looking to boost their network engineering and security administration career prospects. If you want to gain a Cisco CCNA certification and start a career as a network security professional, you'll find this book useful. Although no knowledge about Cisco technologies is expected, a basic understanding of industry-level network fundamentals will help you grasp the topics covered easily.

Network World, 1994-10-17 For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

GNS3 Network Simulation Guide "RedNectar" Chris Welsh, 2013-10-25 GNS3 Network Simulation Guide is an easy-to-follow yet comprehensive guide which is written in a tutorial format helping you grasp all the things you need for accomplishing your certification or simulation goal. If you are a networking professional who wants to learn how to simulate networks using GNS3, this book is ideal for you. The introductory examples within the book only require minimal networking knowledge, but as the book progresses onto more advanced topics, users will require knowledge of TCP/IP and routing.

Sams Teach Yourself Cisco Routers in 21 Days Jerome F. DiMarzio, 2001-12-14 Sams Teach Yourself Cisco Routers in 21 Days is an in-depth, straightforward tutorial. It covers configuring a router from the ground up, alerts the reader to the most common problems, and offers tested solutions when they are applicable. Readers will learn how to: install the IOS; perform the initial configuration; configure the router for protocols such as TCP/IP, IPX, RIP, and IGRP, avoid common pitfalls working with routers.

Sams Teach Yourself Cisco Routers in 21 Days J. F. DiMarzio, 2002 Sams Teach Yourself Cisco Routers in 21 Days is an in-depth, straightforward tutorial. It covers configuring a router from the ground up, alerts the reader to the most common problems, and offers tested solutions when they are applicable. Readers will learn how to: install the IOS; perform the initial configuration; configure the router for protocols such as TCP/IP, IPX, RIP, and IGRP, avoid common pitfalls working with routers.

The Rough Guide to Windows 7 Simon May, 2009-08-31 The Rough Guide to Windows 7 is the ultimate companion to buying, using and getting the

most from Windows 7. Discover all the facts and all the essential information you need to know, from how to use Microsoft Multi-touch technologies, how to customize the Windows 7 environment with backgrounds, ClearType and display shortcuts, plus Windows 7's advanced new Media Centre features. Don't miss a trick, with the Live Gallery and all the coolest Gadgets at your fingertips plus all the latest tips to the best freeware add-ons and downloads to extend your Windows 7 experience. Written by Simon May, a leading Windows blogger and regular writer for online magazine TheDigitalLifestyle.com, this guide is approachably written to demystify the jargon for novices and Microsoft experts alike. Whether you want to make the most of your windows media player, improve your performance or be more productive with Microsoft office applications - Do more with The Rough Guide to Windows 7.

CCNA ICND2 640-816 Official Cert Guide Wendell Odom, 2012 This preparation guide offers complete coverage of the CCNA 640-802 exam, including all INTRO and ICND topics.

Practical Cisco Unified Communications Security Brett Hall, Nik Smith, 2020-12-04 Master the foundations of modern Cisco Unified Communications (UC) system security This guide helps you build foundational knowledge for securing modern Cisco Unified Communications environments that support voice, video, messaging, and meetings, and support different types of real-time collaboration capabilities based on mobile/remote access and mobile devices based on bring-your-own-device (BYOD) initiatives. Writing for administrators and managers, two Cisco collaboration experts bring together methods and insights to illuminate both the "why" and the "how" of effective collaboration security. Using the proven "Explain, Demonstrate, and Verify" methodology, they explain each threat, demonstrate remediation, and show how to confirm correct implementation. You'll walk through securing each attack surface in a logical progression, across each Cisco UC application domain. The authors address key updates to Cisco collaboration architecture, including Expressway, Cisco Meeting Server, encryption enhancements, and advanced business-to-business collaboration. You'll find quick-reference checklists in each chapter, and links to more detail wherever needed. Begin by protecting your workforce through basic physical security and life/safety techniques Understand how attackers seek to compromise your UC system's network environment—and your best countermeasures Maintain security across all UC deployment types n Protect core UC applications by locking down and hardening the core operating system Use encryption to protect media and signaling, and enforce secure authentication Secure Cisco Unified Communications Manager, Cisco Unity Connection, and Cisco Meeting Server Deploy Session Border Controllers to provide security controls for VoIP and video traffic Provide additional protection at the edge of the network Safeguard cloud-based and hybrid-cloud services Enable organizations to seamlessly and securely connect to cloud UC services Allow remote teleworker users to connect safely to local UC resources

The Policy Driven Data Center with ACI Lucien Avramov, Maurizio Portolani, 2014-12-21 Use policies and Cisco® ACI to make data centers more flexible and configurable--and deliver far more business value Using the policy driven data center approach, networking professionals can accelerate and simplify changes to the data center, construction of cloud infrastructure, and delivery of new applications. As you improve data center flexibility, agility, and portability, you can deliver far more business value, far more rapidly. In this guide, Cisco data center experts Lucien Avramov and Maurizio Portolani show how to achieve all these benefits with Cisco Application Centric Infrastructure (ACI) and technologies such as python, REST, and OpenStack. The authors explain the advantages, architecture, theory, concepts, and methodology of the policy driven data center. Next, they demonstrate the use of python scripts and REST to automate network management and simplify customization in ACI environments. Drawing on experience deploying ACI in enterprise data centers, the authors review design considerations and implementation methodologies. You will find design considerations for virtualized datacenters, high performance computing, ultra-low latency environments, and large-scale data centers. The authors walk through building multi-hypervisor and bare-metal infrastructures, demonstrate service integration, and introduce advanced telemetry capabilities for troubleshooting. Leverage the architectural and management innovations built into Cisco® Application Centric Infrastructure (ACI) Understand the policy driven data center model Use policies to meet the network performance and design requirements of modern data center and cloud environments Quickly map hardware and software capabilities to application deployments using graphical tools--or programmatically, via the Cisco APIC API Increase application velocity: reduce the time needed to move applications into production Define workload connectivity instead of (or along with) subnets, VLAN stitching, and ACLs Use Python scripts and REST to automate policy changes, parsing, customization, and self-service Design policy-driven data centers that support hypervisors Integrate OpenStack via the Cisco ACI APIC OpenStack driver architecture Master all facets of building and operating multipurpose cloud architectures with ACI Configure ACI fabric topology as an infrastructure or tenant administrator Insert Layer 4-Layer 7 functions using service graphs Leverage centralized telemetry to optimize performance; find and resolve problems Understand and familiarize yourself with the paradigms of programmable policy driven networks

Hyperconverged Infrastructure Data Centers Sam Halabi, 2019-01-18 Improve Manageability, Flexibility, Scalability, and Control with Hyperconverged Infrastructure Hyperconverged infrastructure (HCI) combines storage, compute, and networking in one unified system, managed locally or from the cloud. With HCI, you can leverage the cloud's simplicity, flexibility, and scalability without losing control or compromising your ability to scale. In Hyperconverged Infrastructure Data Centers, best-selling author Sam Halabi demystifies HCI technology, outlines its use cases, and compares solutions from a vendor-neutral perspective. He guides you through evaluation, planning, implementation, and management, helping you decide where HCI makes sense, and how to migrate legacy data centers without disrupting production systems. The author brings together all the HCI knowledge technical professionals and IT managers need, whether their background is in storage, compute, virtualization, switching/routing, automation, or public cloud platforms. He explores leading solutions including the Cisco HyperFlex platform, VMware vSAN, Nutanix Enterprise Cloud, Cisco Application-Centric Infrastructure (ACI), VMware's NSX, the open source OpenStack and Open vSwitch (OVS) / Open Virtual Network (OVN), and Cisco CloudCenter for multicloud management. As you explore discussions of automation, policy management, and other key HCI capabilities, you'll discover powerful new opportunities to improve control, security, agility, and performance. Understand and overcome key limits of traditional data center designs Discover improvements made possible by advances in compute, bus interconnect, virtualization, and software-defined storage Simplify rollouts, management, and integration with converged infrastructure (CI) based on the Cisco Unified Computing System (UCS) Explore HCI functionality, advanced capabilities, and benefits Evaluate key HCI applications, including DevOps, virtual desktops, ROBO, edge computing, Tier 1 enterprise applications, backup, and disaster recovery Simplify application deployment and policy setting by implementing a new model for provisioning, deployment, and management Plan, integrate, deploy, provision, manage, and optimize the Cisco HyperFlex hyperconverged infrastructure platform Assess alternatives such as VMware vSAN, Nutanix, open source OpenStack, and OVS/OVN, and compare architectural differences with HyperFlex Compare Cisco ACI (Application- Centric Infrastructure) and VMware NSX approaches to network automation, policies, and security 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.

IP Multicast Josh Loveless, Raymond Blair, Arvind Durai, 2018-03-08 Design, operate, and troubleshoot advanced Cisco IP multicast in enterprise, data center, and service provider networks IP Multicast, Volume II thoroughly covers advanced IP multicast designs and protocols specific to Cisco routers and switches. It offers a pragmatic discussion of common features, deployment models, and field practices for advanced Cisco IP multicast networks, culminating with commands and methodologies for implementation and advanced troubleshooting. After fully discussing inter-domain routing and Internet multicast, the authors thoroughly explain multicast scalability, transport diversification, and multicast MPLS VPNs. They share in-depth insights into multicast for the data center, a full chapter of best-practice design solutions, and a start-to-finish troubleshooting methodology designed for complex environments. Reflecting the authors' extensive experience with service provider and enterprise networks, IP Multicast, Volume II will be indispensable to IP multicast engineers, architects, operations technicians, consultants, security professionals, and collaboration specialists. Network managers and administrators will find its case studies and feature explanations especially valuable. Understand the fundamental requirements for inter-domain multicast Design control planes for identifying source and receiver, as well as the downstream control plane Support multicast transport where cloud service providers don't support native multicast Use multicast VPNs to logically separate traffic on the same physical infrastructure Explore the unique nuances of multicast in the data center Implement Virtual Port Channel (vPC), Virtual Extensible LAN (VXLAN), and

Cisco’s Application Centric Infrastructure (ACI) Design multicast solutions for specific industries or applications Walk through examples of best-practice multicast deployments Master an advanced methodology for troubleshooting large IP multicast networks

Cisco Cloud Infrastructure Avinash Shukla,Jalpa Patel,Komal Panzade,Himanshu Sardana,2023-02-10 Manage, operate, and integrate existing infrastructure in hybrid and multicloud environments Hybrid cloud adoption is accelerating, as companies discover that hybrid cloud architectures can reduce hosting costs, improve agility, promote scalability, accelerate deployment, and enhance security. Cisco Cloud Infrastructure is the definitive reference for every IT professional, IT manager, and CIO who needs to understand, implement, or manage Cisco hybrid cloud solutions for networking, compute, storage, applications, or security. Bringing together crucial information, a team of leading Cisco architects present end-to-end insights for seamlessly integrating management and operation of public cloud resources and on-premises deployments. The authors describe each Cisco solution and offering in detail, from both technical and business viewpoints. They review each leading deployment option, reviewing key concepts, best practices, guidelines, tradeoffs, design do's and don'ts, case studies, and more. Cisco Cloud Infrastructure contains many configuration examples--including topologies, configuration, and verification--each based on actual Cisco Cloud deployments, and specifically designed to help you drive value faster. Use Cisco data center orchestration software to automate tasks and operations, and enable an agile DevOps approach to continual improvement Gain big-picture insights and actionable drill-down data from the Cisco API-driven monitoring and assurance solutions Optimize workloads across clouds, on-premises data centers, labs, and co-location facilities for scale, performance, agility, and value Use AppDynamics enterprise-grade performance cloud monitoring and analytics tools to identify issues and overcome growth challenges Efficiently manage modern workloads with Intersight Workload Optimization Manager, Cisco Container Platform, and Intersight Kubernetes Service (IKS) Manage interdependencies between networks, compute, storage, application, and security in hybrid cloud environments Take advantage of Cisco Cloud Webex to improve collaboration in hybrid/multicloud environments Integrate operational hardware with the Internet of Things (IoT) to gain deeper insight for greater efficiency Protect users, data, and applications everywhere with Cloudlock, Umbrella, Cloud Analytics, Duo, and API-based integrations

Network Programmability and Automation Fundamentals Khaled Abuelenain,Jeff Doyle,Anton Karneliuk,Vinit Jain,2021-05-06 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

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