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50 real-world recipes to automate infrastructure networks and overcome networking challenges with Python

Programming and Automating Cisco Networks

Mastering Python Networking

Software Defined Networks

Implementing and Operating Cisco Security Core Technologies

CCNP Enterprise Design ENSLD 300-420 Official Cert Guide

Intent-based Networking for the Enterprise

Cloud Native Data Center Networking

A guide to network programmability and automation in the data center, campus, and WAN

Fundamentals of EMS, NMS and OSS/BSS

Next-generation routing with SDN, service virtualization, and service chaining

Netw Fun Vir (NFV ePub_1

Foundation for Application Engineered Routing

Skills for the Next-Generation Network Engineer

Conquer all your networking challenges with the powerful Python language

Network Programmability and Automation

CCNP and CCIE Enterprise Core ENCOR 350-401

Official Cert Guide
Network Management Fundamentals
Cisco Digital Network Architecture
Network Programmability and Automation
Orchestration and Operation
Information Systems Security and Privacy
Cisco IOS XR Fundamentals
Orchestrating and Automating Security for the
Internet of Things
Design Innovation and Network Architecture for
the Future Internet
Network Programmability and Automation
Computer Networking Problems and Solutions
Network Programmability with YANG
5th International Conference, ICISSP 2019,
Prague, Czech Republic, February 23-25, 2019,
Revised Selected Papers
CCNP Enterprise Certification Study Guide:
Implementing and Operating Cisco Enterprise
Network Core Technologies
The Structure of Network Automation with YANG,
NETCONF, RESTCONF, and gNMI
CCNP and CCIE Security Core SCOR 300-701
Official Cert Guide
Python Network Programming
Cisco IOS XR Fundamentals
CCNP and CCIE Security Core SCOR 350-701
Official Cert Guide
DevNet Associate DEVASC 200-901 Official
Certification Guide
Automate Your Network: Introducing the Modern
Approach to Enterprise Network Management

Exam 350-401

An innovative approach to building resilient, modern networks

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50 real-world recipes to automate infrastructure networks and overcome networking challenges with Python

Cisco Press
Software Defined Networks: A Comprehensive Approach, Second Edition provides in-depth coverage of the technologies

collectively known as Software Defined Networking (SDN). The book shows how to explain to business decision-makers the benefits and risks in shifting parts of a network to the SDN model, when to integrate SDN technologies in a network, and how to develop or acquire SDN applications. In addition, the book emphasizes

the parts of the technology that encourage opening up the network, providing treatment for alternative approaches to SDN that expand the definition of SDN as networking vendors adopt traits of SDN to their existing solutions. Since the first edition was published, the SDN market has matured, and is being gradually

integrated and morphed into something more compatible with mainstream networking vendors. This book reflects these changes, with coverage of the OpenDaylight controller and its support for multiple southbound protocols, the Inclusion of NETCONF in discussions on controllers and devices, expanded coverage of NFV, and updated coverage of the latest approved

version (1.5.1) of the OpenFlow specification. Contains expanded coverage of controllers Includes a new chapter on NETCONF and SDN Presents expanded coverage of SDN in optical networks Provides support materials for use in computer networking courses
**Programmin
g and
Automating
Cisco
Networks**
Cisco Press
If you want to study, build,

or simply validate your thinking about modern cloud native data center networks, this is your book. Whether you're pursuing a multitenant private cloud, a network for running machine learning, or an enterprise data center, author Dinesh Dutt takes you through the steps necessary to design a data center that's affordable, high capacity, easy to manage, agile, and reliable. Ideal

for network architects, data center operators, and network and containerized application developers, this book mixes theory with practice to guide you through the architecture and protocols you need to create and operate a robust, scalable network infrastructure. The book offers a vendor-neutral way to look at network design. For those interested in open networking,

this book is chock-full of examples using open source software, from FRR to Ansible. In the context of a cloud native data center, you'll examine: Clos topology Network disaggregation Network operating system choices Routing protocol choices Container networking Network virtualization and EVPN Network automation Mastering Python

Networking
Network Programmability with YANGThe Structure of Network Automation with YANG, NETCONF, RESTCONF, and gNMI
Network Functions Virtualization (NFV) will drive dramatic cost reductions while also accelerating service delivery. Using NFV with SDN, network owners can provision new functions rapidly on demand, improve

scalability, and leverage microservices. Benefits like these will make NFV indispensable for service providers, mobile operators, telcos, and enterprises alike. Network Functions Virtualization (NFV) with a Touch of SDN is the first practical introduction to NFV's fundamental concepts, techniques, and use cases. Written for wide audiences of network engineers, architects,

planners, and operators, it assumes no previous knowledge of NFV architecture, deployment, or management. The authors first explain how virtualization, VMs, containers, and related technologies establish the foundation for the NFV transformation. Next, they show how these concepts and technologies can be applied to virtualize network functions in the cloud,

data centers, routing, security, and the mobile packet core. You'll discover new tools and techniques for managing and orchestrating virtualized network devices, and gain new clarity on how SDN and NFV interact and interrelate. By the time you're done, you'll be ready to assess vendor claims, evaluate architectures, and plan NFV's role in your own networks. Understand NFV's key

benefits and market drivers
Review how virtualization makes NFV possible
Consider key issues associated with NFV network design and deployment
Integrate NFV into existing network designs
Orchestrate, build, and deploy NFV networks and cloud services
Maximize operational efficiency by building more programmable, automated networks
Understand how NFV and SDN work together
Address security, programmability, performance, and service function chaining
Preview evolving concepts that will shape NFV's future
Software Defined Networks IGI Global
The entire networking industry is being pressured to automate to scale and move faster.
In modern networks, you just can't manage everything by hand anymore. You need to automate relentlessly, and the most practical way to do so is with YANG and NETCONF. But existing documentation on these technologies has been poor, jargon-filled, or non-existent, so most implementers have been forced to learn by trial and error. Now, Network Programmability with YANG gives them comprehensive and reliable guidance for unlocking the power of

network automation using model-driven APIs and protocols. Written by three leaders of the YANG development effort, this plain-spoken book guides networking professionals in successfully applying software practices based on YANG data models. The authors focus on the network operations layer, emphasizing model-driven APIs and underlying transports. Using their

information and insights, network professionals can transform the way they manage large networks. *Implementing and Operating Cisco Security Core Technologies* Cisco Press CCNP Enterprise Design ENSLD 300-420 Official Cert Guide: Designing Cisco Enterprise Networks from Cisco Press allows you to succeed on the exam the first time and is the only self-study resource

approved by Cisco. Expert authors Anthony Bruno and Steve Jordan share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete study package includes A test-preparation routine proven to help you pass the exams Do I Know This Already? quizzes, which allow you to

decide how much time you need to spend on each section

Chapter-ending Key Topic tables, which help you drill on key concepts you must know thoroughly

The powerful Pearson Test Prep Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports

Online, interactive practice exercises that

help you enhance your knowledge

An online, interactive Flash Cards application to help you drill on Key Terms by chapter

A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies

Study plan suggestions and templates to help you organize and optimize your study time

Well regarded for its level of detail, study plans,

assessment features, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success

This official study guide helps you master all the topics on the CCNP Designing Cisco Enterprise Networks (300-420 ENSLD) exam, including Advanced Addressing and Routing Solutions

Advanced

<p>Enterprise Campus Networks WAN for Enterprise Networks Network Services SD Access and SD-WAN Automation CCNP <i>Enterprise Design ENSLD 300-420 Official Cert Guide</i> Cisco Press</p> <p>In this era where data and voice services are available at a push of a button, service providers have virtually limitless options for reaching their customers with value-</p>	<p>added services. The changes in services and underlying networks that this always-on culture creates make it essential for service providers to understand the evolving business logic and appropriate support systems for service delivery, billing, and revenue assurance. Supplying an end-to-end understanding of telecom management layers, Fundamentals of EMS, NMS</p>	<p>and OSS/BSS is a complete guide to telecom resource and service management basics. Divided into four sections: Element Management System, Network Management System, Operation/Busi- ness Support Systems, and Implementatio- n Guidelines, the book examines standards, best practices, and the industries developing these systems. Each section starts with basics,</p>
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details how the system fits into the telecom management framework, and concludes by introducing more complex concepts. From the initial efforts in managing elements to the latest management standards, the text: Covers the basics of network management, including legacy systems, management protocols, and popular products Deals with OSS/BSS—covering processes,

applications, and interfaces in the service/business management layers Includes implementation guidelines for developing customized management solutions The book includes chapters devoted to popular market products and contains case studies that illustrate real-life implementations as well as the interaction between management layers. Complete with detailed

references and lists of web resources to keep you current, this valuable resource supplies you with the fundamental understanding and the tools required to begin developing telecom management solutions tailored to your customer's needs. [Intent-based Networking for the Enterprise](#) Packt Publishing Ltd This book provides you with an accessible overview of

network management covering management not just of networks themselves but also of services running over those networks. It also explains the different technologies that are used in network management and how they relate to each other.--[book cover].
Cloud Native Data Center Networking
 O'Reilly Media
 For the past couple of years, network automation techniques

that include software-defined networking (SDN) and dynamic resource allocation schemes have been the subject of a significant research and development effort. Likewise, network functions virtualization (NFV) and the foreseeable usage of a set of artificial intelligence techniques to facilitate the processing of customers' requirements and the subsequent design,

delivery, and operation of the corresponding services are very likely to dramatically distort the conception and the management of networking infrastructures . Some of these techniques are being specified within standards developing organizations while others remain perceived as a "buzz" without any concrete deployment plans disclosed by service providers. An

in-depth understanding and analysis of these approaches should be conducted to help internet players in making appropriate design choices that would meet their requirements as well as their customers. This is an important area of research as these new developments and approaches will inevitably reshape the internet and the future of technology. Design

Innovation and Network Architecture for the Future Internet sheds light on the foreseeable yet dramatic evolution of internet design principles and offers a comprehensive overview on the recent advances in networking techniques that are likely to shape the future internet. The chapters provide a rigorous in-depth analysis of the promises, pitfalls, and other challenges

raised by these initiatives, while avoiding any speculation on their expected outcomes and technical benefits. This book covers essential topics such as content delivery networks, network functions virtualization, security, cloud computing, automation, and more. This book will be useful for network engineers, software designers, computer networking professionals,

practitioners, researchers, academicians, and students looking for a comprehensive research book on the latest advancements in internet design principles and networking techniques.

A guide to network programmability and automation in the data center, campus, and WAN CRC

Press
DevNet
Associate
DEVASC
200-901
Official
Certification
Guide is

Cisco's official, comprehensive self-study resource for Cisco's DEVASC 200-901 exam: your pathway to the DevNet Associate Certification demonstrating your knowledge of application development and automation on Cisco platforms. Written by Cisco experts based on Cisco's own internal training, it clearly explains the value of each technique, presents

realistic use cases, introduces solution components, illuminates their inner workings, and shows how to execute on what you've learned in practice. Designed for all Cisco DevNet Associate candidates, it covers every DEVASC 200-901 objective concisely and logically, with extensive teaching features designed to promote retention and understanding . You'll find:

Pre-chapter quizzes to assess knowledge upfront and focus your study more efficiently. Foundation topics sections that explain concepts and configurations, and link theory to practice. Key topics sections calling attention to every figure, table, and list you must know. Exam Preparation sections with additional chapter review features. Final preparation chapter providing tools

and a complete final study plan. A customizable practice test library. This guide offers comprehensive, up-to-date coverage of all DEVASC 200-901 topics related to: Software development and design. Understanding and using APIs. Cisco platforms and development. Application deployment and security. Infrastructure and automation. Network fundamentals. Fundamentals of EMS, NMS and OSS/BSS

Addison-Wesley Professional. A Visual Guide to Understanding Software Defined Networks and Network Function Virtualization. The simple, visual, at-a-glance guide to SDN and NFV: Core concepts, business drivers, key technologies, and more! SDN (Software Defined Networks) and NFV (Network Function Virtualization) are today's hottest areas of networking. Many

executives, investors, sales professionals, and marketers need a solid working understanding of these technologies, but most books on the subject are written specifically for network engineers and other technical experts. SDN and NFV Simplified fills that gap, offering highly visual, “at-a-glance” explanations of SDN, NFV, and their underlying virtualizations. Built around

an illustrated, story-telling approach, this answers the questions: Why does this technology matter? How does it work? Where is it used? What problems does it solve? Through easy, whiteboard-style infographics, you’ll learn: how virtualization enables SDN and NFV; how datacenters are virtualized through clouds; how networks can also be virtualized; and how to maximize security,

visibility, and Quality of Experience in tomorrow’s fully-virtualized environments. Step by step, you’ll discover why SDN and NFV technologies are completely redefining both enterprise and carrier networks, and driving the most dramatic technology migration since IP networking. That’s not all: You’ll learn all you need to help lead this transformation . Learn how virtualization

establishes the foundation for SDN and NFV Review the benefits of VMs, the role of hypervisors, and the management of virtual resources Discover how cloud technologies enable datacenter virtualization Understand the roles of networking gear in virtualized datacenters See VMWare VMotion and VXLAN at work in the virtualized datacenter Understand multitenancy and the	challenges of “communal living” Learn how core network functions and appliances can be virtualized Ensure performance and scalability in virtualized networks Compare modern approaches to network virtualization, including OpenFlow, VMWare Nicera, Cisco Insieme, and OpenStack Walk through the business case for SDN, NFV, and the Cloud Discover how the Software	Defined Network (SDN) solves problems previously left unaddressed Understand SDN controllers—and who’s fighting to control your network Use SDN and NFV to improve integration and say goodbye to “truck rolls” Enforce security, avoid data leakage, and protect assets through encryption Provide for effective monitoring and consistent Quality of Experience
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(QoE) Learn how SDN and NFV will affect you—and what’s next

[Next-generation routing with SDN, service virtualization, and service chaining](#)

Addison-Wesley Professional

Power up your network applications with Python programming

Key Features

Master Python skills to develop powerful network applications

Grasp the fundamentals and functionalities of SDN Design

multi-threaded, event-driven architectures for echo and chat servers

Book

Description

This Learning Path highlights major aspects of Python network programming such as writing simple networking clients, creating and deploying SDN and NFV systems, and extending your network with Mininet. You’ll also learn how to automate legacy and the latest network devices. As

you progress through the chapters, you’ll use Python for DevOps and open source tools to test, secure, and analyze your network.

Toward the end, you'll develop client-side applications, such as web API clients, email clients, SSH, and FTP, using socket programming. By the end of this Learning Path, you will have learned how to analyze a network's security vulnerabilities using

<p>advanced network packet capture and analysis techniques. This Learning Path includes content from the following Packt products: Practical Network Automation by Abhishek Ratan Mastering Python Networking by Eric Chou Python Network Programming Cookbook, Second Edition by Pradeeban Kathiravelu, Dr. M. O. Faruque Sarker What</p>	<p>you will learn Create socket-based networks with asynchronous models Develop client apps for web APIs, including S3 Amazon and Twitter Talk to email and remote network servers with different protocols Integrate Python with Cisco, Juniper, and Arista eAPI for automation Use Telnet and SSH connections for remote system monitoring Interact with websites via XML-RPC,</p>	<p>SOAP, and REST APIs Build networks with Ryu, OpenDaylight, Floodlight, ONOS, and POX Configure virtual networks in different deployment environments Who this book is for If you are a Python developer or a system administrator who wants to start network programming, this Learning Path gets you a step closer to your goal. IT professionals and DevOps engineers who are new to managing</p>
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network devices or those with minimal experience looking to expand their knowledge and skills in Python will also find this Learning Path useful. Although prior knowledge of networking is not required, some experience in Python programming will be helpful for a better understanding of the concepts in the Learning Path.

[Netw Fun Vir \(NFV ePub_1](#)
Cisco Press
Prepare for

the evolving technology components of Cisco's revised CCIE and CCDE written exams. The changes Cisco made to its expert-level CCIE and CCDE certifications allow candidates to link their core technology expertise with knowledge of evolving technologies that organizations are rapidly adopting, including cloud services, IoT networking, and network programmability. This guide

will help you efficiently master and integrate the knowledge of evolving technology that you'll need to succeed on the revised CCIE and CCDE written examinations. Designed to help you efficiently focus your study, achieve mastery, and build confidence, CCIE and CCDE Evolving Technologies Study Guide focuses on conceptual insight, not mere memorization. Focused

specifically on the exams' evolving technologies components, it combines with track-specific Cisco Press certification guides to offer comprehensive and authoritative preparation for advanced Cisco certification. Understand the Internet of Things (IoT) from the perspective of business transformations, connectivity, and security Review leading IoT architectural models and

applications Structure edge, fog, and centralized compute to maximize processing efficiency Recognize behavioral and operational differences between IoT networks and enterprise networks Gain a holistic understanding of public, private, or hybrid cloud environments that use VMs or containers Explore cloud service models, connectivity, security, scalability, and high

availability designs. Master modern API-based programmability and automation methods for interacting with diverse network applications and devices Connect with the Cisco DevNet developer community and other key resources for Cisco network programming *Foundation for Application Engineered Routing* Packt Publishing Ltd The practical and conceptual knowledge

you need to attain CCNP Enterprise certification. From one of the most trusted study guide publishers comes CCNP Enterprise Certification Study Guide: Exam 350-401. This guide helps you develop practical knowledge and best practices for critical aspects of enterprise infrastructure so you can gain your CCNP Enterprise certification. If you're hoping to attain a

broader range of skills and a solid understanding of Cisco technology, this guide will also provide fundamental concepts for learning how to implement and operate Cisco enterprise network core technologies. By focusing on real-world skills, each chapter prepares you with the knowledge you need to excel in your current role and beyond. It covers emerging and industry-specific topics,

such as SD-WAN, network design, wireless, and automation. This practical guide also includes lessons on: ● Automation ● Network assurance ● Security ● Enterprise infrastructure ● Dual-stack architecture ● Virtualization In addition to helping you gain enterprise knowledge, this study guide can lead you toward your Cisco specialist certification. When you purchase this guide, you get

access to the information you need to prepare yourself for advances in technology and new applications, as well as online study tools such as:

- Bonus practice exams
- Pre-made flashcards
- Glossary of key terms
- Specific focus areas

Expand your skillset and take your career to the next level with CCNP Enterprise Certification Study Guide.

Skills for the Next-Generation

Network Engineer
 "O'Reilly Media, Inc."
 Design your networks to successfully manage their growing complexity

Network professionals have often been told that today's modern control planes would simplify their networks. The opposite has happened: Technologies like SDN and NFV, although immensely valuable, are exacerbating complexity instead of solving it.

Navigating

Network Complexity is the first comprehensive guide to managing this complexity in both deployment and day-to-day operations.

Russ White and Jeff Tantsura introduce modern complexity theory from the standpoint of the working network engineer, helping you apply it to the practical problems you face every day. Avoiding complex mathematical models, they

show how to characterize network complexity, so you can understand it and control it. The authors examine specific techniques and technologies associated with network control planes, including SDNs, fast reroute, segment routing, service chaining, and cloud computing. They reveal how each of these affects network design and complexity and help you

anticipate causes of failure in highly complex systems. **Conquer all your networking challenges with the powerful Python language** Addison-Wesley Professional Network automation is one of the hottest topics in Information Technology today. This revolutionary book aims to illustrate the transformative journey towards full enterprise network

automation. This book outlines the tools, technologies and processes required to fully automate an enterprise network. Automated network configuration management is more than converting your network configurations to code. The benefits of source control, version control, automated builds, automated testing and automated releases are realized in the world of

networking using well established software development practices. The next-generation network administrative toolkit is introduced including Microsoft Team Foundation Server, Microsoft Visual Studio Code, Git, Linux, and the Ansible framework. Not only will these new technologies be covered at length, a new and continuously integrated / continuously delivered pipeline is also introduced. Starting with safe, simple, non-intrusive, non-disruptive information gathering organizations can ease into network automation while building a dynamic library of documentation and on-demand utilities for network operations. Once comfortable with the new ecosystem, administrators can begin making fully automated, orchestrated, and tactical changes to the network. The next evolutionary leap occurs when fully automated network configuration management is implemented. Important information from the network running-configurations is abstracted into data models in a human readable format. Device configurations are dynamically templated creating a scalable, intent-based, source of

truth. Much like in the world of software development, full automation of the network using a CI/CD pipeline can be realized. Automated builds, automated testing and automated scheduled releases are orchestrated and executed when changes are approved and checked into the central repository. This book is unlike any on the market today as it includes multiple

Ansible playbooks, sample YAML data models and Jinja2 templates for network devices, and a whole new methodology and approach to enterprise network administration and management. The CLI no longer cuts it. Readers should take away from this book a new approach to enterprise network management and administration as well as the full knowledge and understanding

of how to use TFS, VS Code, Git, and Ansible to create an automation ecosystem. Readers should have some basic understanding of modern network design, operation, and configuration. No prior programming or software development experience is required. John Capobianco has over 20 years of IT experience and is currently a Technical Advisor for the Canadian House of

Commons. A graduate of St. Lawrence College's Computer Programmer Analyst program, John is also a former Professor at St. Lawrence College in the Computer Networking and Technical Support (CNTS) program. John has achieved CCNP, CCDP, CCNA: Data Center, MCITP: EA/SA, CompTIA A+ / Network+, and ITIL Foundation certifications. Having discovered a new way to

interface with the network John felt compelled to share this new methodology in hopes of revolutionizing the industry and bringing network automation to the world. **Network Programmability and Automation** Packt Publishing Ltd Cisco IOS XR Fundamentals is a systematic, authoritative guide to configuring routers with Cisco IOS® XR, the next-generation flagship Cisco®

Internet operating system. In this book, a team of Cisco experts brings together quick, authoritative, and example-rich reference information for all the commands most frequently used to configure and troubleshoot Cisco IOS XR-based routers in both service provider and enterprise environments. The authors walk you through the details of the Cisco IOS XR architecture and explain

commands in the new Cisco IOS XR CLI wherever required. They present concise explanations of service provider requirements and internetwork theory, backed by proven sample configurations for IOS XR services, MPLS, multicast, system management, system security, routing, and interfaces. Cisco IOS XR Fundamentals is an indispensable

resource for designing, implementing, troubleshooting, administering, or selling networks containing Cisco IOS XR-supported routers. This is the only Cisco IOS XR book that: Clearly explains how Cisco IOS XR meets the emerging requirements of both current and future networks Gives network professionals extensive information for simplifying migration and taking full advantage of

Cisco IOS XR's new power Presents detailed, tested configuration examples that network professionals can apply in their own networks Walks through using new Cisco IOS XR features and the In-Service Software Upgrade (ISSU) process to minimize downtime and cost Use Cisco IOS XR to deliver superior scalability, availability, security, and service flexibility Understand

<p>the Cisco IOS XR distributed, modular architecture Design, implement, and troubleshoot networks containing Cisco IOS XR-supported routers Configure Cisco IOS XR routing, including RIP, IS-IS, OSPF, and EIGRP Learn BGP implementation details specific to Cisco IOS XR and using RPL to influence policies Manage IP addresses and Cisco IOS XR services Secure Cisco</p>	<p>IOS XR using standard and extended ACLs, prefix lists, and uRPF Master all facets of MPLS configuration, including LDP, L3VPN, and TE Configure PIM, IGMP, and static RP multicast Optimize networks using advanced Cisco IOS XR features, including secure domain routers Learn building blocks of Multishelf, and understand configurations and migration techniques This book is part of the</p>	<p>Cisco Press® Fundamentals Series. Books in this series introduce networking professionals to new networking technologies, covering network topologies, sample deployment concepts, protocols, and management techniques. Cisco Press The complete guide to transforming enterprise networks with Cisco DNA As networks become more complex and dynamic, organizations need better</p>
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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

<p>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</p>	<p>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</p>	<p>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, and</p>
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 Get started
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 configuration
 commands

over and over again. With this book, you'll find out how you can automate your network infrastructure using Python. You'll get started on your network automation journey with a hands-on introduction to the network programming basics to complement your infrastructure knowledge. You'll learn how to tackle different aspects of network automation using Python programming and a variety

of open source libraries. In the book, you'll learn everything from templating, testing, and deploying your configuration on a device-by-device basis to using high-level REST APIs to manage your cloud-based infrastructure. Finally, you'll see how to automate network security with Cisco's Firepower APIs. By the end of this Python network programming book, you'll

have not only gained a holistic overview of the different methods to automate the configuration and maintenance of network devices, but also learned how to automate simple to complex networking tasks and overcome common network programming challenges. What you will learn • Programmatically connect to network devices using SSH (secure shell) to

execute commands • Create complex configuration templates using Python • Manage multi- vendor or multi-device environments using network controller APIs or unified interfaces • Use model- driven programmabili- ty to retrieve and change device configurations • Discover how to automate post modification network infrastructure tests • Automate your network security using	Python and Firepower APIs Who this book is for This book is for network engineers who want to make the most of Python to automate their infrastructure. A basic understanding of Python programming and common networking principles is necessary. Table of Contents • A Primer on Python 3 • Connecting to Network Devices via SSH Using Paramiko • Building Configuration	Templates Using Jinja2 • Configuring Network Devices Using Netmiko • Model-Driven Programmabili- ty with NETCONF and ncclient • Automating Complex Multi-Vendor Networks with NAPALM • Automating Your Network Tests and Deployments with pyATS and Genie • Configuring Devices Using RESTCONF and requests • Consuming Controllers and High- Level Networking APIs with
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requests •
 Incorporating
 Your Python
 Scripts into an
 Existing
 Workflow by
 Writing
 Custom
 Ansible
 Modules •
 Automating
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 Using the AWS
 Python SDK •
 Automating
 Your Network
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 Cisco Press
 This book
 constitutes
 the revised
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International
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 2019, held in
 Prague, Czech
 Republic, in
 February
 2019. The 19
 full papers
 presented
 were carefully
 reviewed and
 selected from
 a total of 100
 submissions.
 The papers
 presented in
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 address
 various topical
 research,
 including new
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 for attack
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 distributed

applications and effectively manage distributed infrastructure using Containers and CoreOS- Build secure, scalable CoreOS clusters to deploy distributed applications using open source technologies and industry best practices- Every concept and technology in this book is illustrated with practical examples that can be used in both development and production

environments. Who This Book Is For This book is intended for Cloud application developers and Cloud infrastructure administrators . If you are looking to deploy a CoreOS cluster or you already have a CoreOS cluster that you want to manage better in terms of performance, security, and scaling, then this book is perfect for you. To follow the hands-on stuff, you need to have

a Google and an AWS Cloud account and be able to run CoreOS VMs on your machine. A basic understanding of public and private clouds, Containers, Docker, Linux, and CoreOS is required. What You Will Learn- Install CoreOS on a VM, on the Cloud, and bare metal, and find out how to keep your cluster secure and up to date- Configure and troubleshoot key CoreOS services, such as etcd, systemd, and

fleet, for distributed application deployment- Study container networking using CoreOS Flannel and other solutions, such as Docker libnetwork, Weave, and Calico- Explore the container filesystem and container volume management using Docker volume, NFS, GlusterFS, and Flocker- Get to know the internals of container technologies such as Docker, Rkt,

and Container orchestration using Openstack, Kubernetes and Docker native solutions- Troubleshoot CoreOS cluster and Containers using monitoring and logging tools and master production techniques such as staging, security, and automationIn DetailCoreOS makes Google and Amazon-style Cloud infrastructure available for anyone building their own private

Cloud. This book covers the CoreOS internals and the technologies used in the deployment of container-based distributed applications. It starts with an overview of CoreOS and distributed application development while sharing knowledge on related technologies. Critical CoreOS services and networking and storage considerations for CoreOS are covered next.In latter half of the

book, you will learn about Container runtime systems such as Docker and Rkt and Container Orchestration using Kubernetes. You will also find out about the integration of popular orchestration solutions such as OpenStack, the AWS Container service, and the Google Container Engine with CoreOS and Docker. Lastly, we cover troubleshooting as well as production considerations .Style and approachThis is an easy-to-follow, comprehensive guide that covers both basic and advanced concepts. All topics are illustrated with practical examples that can be used in both simulation and production environments.

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