

Programming And Automating Cisco Networks A Guide To Network Programmability And Automation In The Data Center Campus And Wan Networking Technology

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Today, the best way to stay in control of your network is to address devices programmatically and automate network interactions. In this book, Cisco experts Ryan Tischer and Jason Gooley show you how to do just that. You'll learn how to use programmability and automation to solve business problems, reduce costs, promote agility and innovation, handle accelerating complexity, and add value in any data center, campus, LAN, or WAN.

Programming and Automating Cisco Networks: A guide to ...

In the future, the best way to stay in control of your networks will be to program and automate them. Programming and Automating Cisco Networks introduces powerful new Cisco technologies for doing just that. CCIEs Ryan Tischer and Jason Gooley begin by showing how network automation and programmability can bridge gaps in network management arising from modern operational models.

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Programming and Automating Cisco Networks: A guide to network programmability and automation in the data center, campus, and WAN (Networking Technology) 1st Edition, Kindle Edition. by Tischer Ryan (Author), Gooley Jason (Author) Format: Kindle Edition. 3.9 out of 5 stars 25 ratings. Flip to back Flip to front.

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Programming and Automating Cisco Networks: A guide to ...

xviii Programming and Automating Cisco Networks. Introduction. This book was designed with the focus on utilizing Cisco ACI Cisco Nexus 9000, Cisco UCS Director, Cisco (JSON), Python, Linux, Cisco APIC-EM, ConfD, and Data Models in a production environment as effectively as possible.

Programming and Automating Cisco Networks

You'll learn how to use programmability and automation to solve business problems, reduce costs, promote agility and innovation, handle accelerating complexity, and add value in any data center, campus, LAN, or WAN. The authors show you how to create production solutions that run on or interact with Nexus NX-OS-

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based switches, Cisco ACI, Campus, and WAN technologies. You'll learn how to use advanced Cisco tools together with industry-standard languages and platforms, including Python ...

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Drive more value through programmability and automation, freeing resources for high-value innovation Move beyond error-prone, box-by-box network management Bridge management gaps arising from current operational models Write NX-OS software to run on, access, or extend your Nexus switch Master Cisco's powerful on-box automation and operation tools Manage complex WANs with NetConf/Yang, ConfD, and Cisco SDN Controller Interact with and enhance Cisco Application Centric Infrastructure (ACI ...

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Master Cisco's powerful on-box automation and operation tools ; Manage complex WANs with NetConf/Yang, ConfD, and Cisco SDN Controller ; Interact with and enhance Cisco Application Centric Infrastructure (ACI) Build self-service catalogs to accelerate application delivery ; Find resources for deepening your expertise in network automation

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With network automation, you'll quickly and easily design, provision, and apply policy across your network. And in your journey to automation, you choose the path and the pace. Work with existing network and policy definitions, migrate as fast or slow as you'd like, or start from scratch.

What Is Network Automation? - Cisco

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Improve operations and agility in any data center, campus, LAN, or WAN Today, the best way to stay in control of your network is to address devices programmatically and automate network interactions. In this book, Cisco experts Ryan Tischer and Jason Gooley show you how to do just that.

Programming and Automating Cisco Networks: A guide to ...

Programming and Automating Cisco Networks introduces powerful new Cisco technologies for doing just that. CCIEs Ryan Tischer and Jason Gooley begin by showing how network automation and programmability can bridge gaps in network management arising from modern operational models. Next, they introduce software development tools, use cases, and examples for programming the Nexus 9000 and other Cisco data center network platforms.

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Programming and Automating Cisco Networks: A guide to network programmability and automation in the data center, campus, and WAN Paperback - Sept. 8 2016 by Ryan Tischer (Author), Jason Gooley (Author) 4.1 out of 5 stars 15 ratings See all 2 formats and editions

Programming and Automating Cisco Networks: A guide to ...

Editor's note: This is a chapter excerpt from "Programming and Automating Cisco Networks: A Guide to Network Programmability and Automation in the Data Center, Campus, and WAN" by Ryan Tischer and Jason Gooley and published by Cisco Press. Network programmability is a set of tools to deploy, manage, and troubleshoot a network device. A programmability-enabled network is driven by intelligent ...

Network Programmability Basics | Network Computing

Improve operations and agility in any data center, campus, LAN, or WAN Today, the best way to stay in control of your network is to address devices programmatically and automate network interactions. In this book, Cisco experts Ryan Tischer and Jason Gooley show you how to do just that.

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Programming Skills Networking Skills • TCL • EEM • Expect Scripts • Spanning-Tree • Routing Protocols ... and Automation Delivery Pipeline Development Environment GitHub, BitBucket, Jenkins, ... Cisco Confidential 32 Adding Network Programmability Skills! Phase 1 • Python • REST APIs • JSON/XML • git/GitHub • Linux Skills ...

Traditional approaches to network management can't handle soaring network complexity. In the future, the best way to stay in control of your networks will be to program and automate them. Programming and Automating Cisco Networks introduces powerful new Cisco technologies for doing just that. CCIEs Ryan

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Tischer and Jason Gooley begin by showing how network automation and programmability can bridge gaps in network management arising from modern operational models. Next, they introduce software development tools, use cases, and examples for programming the Nexus 9000 and other Cisco data center network platforms. You'll find detailed coverage of programmability for Cisco campus and WAN products, including the use of NetConf/Yang, ConfD, and Cisco SDN controller for managing complex WAN environments. Tischer and Gooley then introduce Cisco's self-service catalog, Prime Services, and techniques for orchestrating multiple automation solutions to deliver applications, using Cisco Process Orchestrator. They conclude with links and references for extending your network automation skills via online communities and open source projects.

Improve operations and agility in any data center, campus, LAN, or WAN Today, the best way to stay in control of your network is to address devices programmatically and automate network interactions. In this book, Cisco experts Ryan Tischer and Jason Gooley show you how to do just that. You'll learn how to use programmability and automation to solve business problems, reduce costs, promote agility and innovation, handle accelerating complexity, and add value in any data center, campus, LAN, or WAN. The authors show you how to create production solutions that run on or interact with Nexus NX-OS-based switches, Cisco ACI, Campus, and WAN technologies. You'll learn how to use advanced Cisco tools together with industry-standard languages and platforms, including Python, JSON, and Linux. The authors demonstrate how to support dynamic application environments, tighten links between apps and infrastructure, and make DevOps work better. This book will be an indispensable resource for network and cloud designers, architects, DevOps engineers, security specialists, and every professional who wants to build or operate high-efficiency networks. Drive more value through programmability and automation, freeing resources for high-value innovation Move beyond error-prone, box-by-box network management Bridge management gaps arising from current operational models Write NX-OS software to run on, access, or extend your Nexus switch Master Cisco's powerful on-box automation and operation tools Manage complex WANs with NetConf/Yang, ConfD, and Cisco SDN Controller Interact with and enhance Cisco Application Centric Infrastructure (ACI) Build self-service catalogs to accelerate application delivery Find resources for deepening your expertise in network automation

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

Become well-versed with network programmability by solving the most commonly encountered problems using Python 3 and open-source packages Key Features • Explore different Python packages to automate your infrastructure • Leverage AWS APIs and the Python library Boto3 to administer your public cloud network efficiently • Get started with infrastructure automation by enhancing your network programming knowledge Book Description Network automation offers a powerful new way of changing your infrastructure network. Gone are the days of manually logging on to different devices to type the same 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 programmability 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 Programmability with NETCONF and ncclient • Automating Complex Multi-Vendor Networks with NAPALM • Automating Your Network

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Tests and Deployments with pyATS and Genie • Configuring Devices Using RESTCONF and requests • Consuming Controllers and High-Level Networking APIs with requests • Incorporating Your Python Scripts into an Existing Workflow by Writing Custom Ansible Modules • Automating AWS Cloud Networking Infrastructure Using the AWS Python SDK • Automating Your Network Security Using Python and the Firepower APIs

Today, networks must evolve and scale faster than ever. You can't manage everything by hand anymore: You need to automate relentlessly. YANG, along with the NETCONF, RESTCONF, or gRPC/gNMI protocols, is the most practical solution, but most implementers have had to learn by trial and error. Now, Network Programmability with YANG gives you complete and reliable guidance for unlocking the full power of network automation using model-driven APIs and protocols. Authored by three YANG pioneers, this plain-spoken book guides you through successfully applying software practices based on YANG data models. The authors focus on the network operations layer, emphasizing model-driven APIs, and underlying transports. Whether you're a network operator, DevOps engineer, software developer, orchestration engineer, NMS/OSS architect, service engineer, or manager, this guide can help you dramatically improve value, agility, and manageability throughout your network. Discover the value of implementing YANG and Data Model-Driven Management in your network Explore the layers and components of a complete working solution Build a business case where value increases as your solution grows Drill down into transport protocols: NETCONF, RESTCONF, and gNMI/gRPC See how telemetry can establish a valuable automated feedback loop Find data models you can build on, and evaluate models with similar functionality Understand models, metadata, and tools from several viewpoints: architect, operator, module author, and application developer Walk through a complete automation journey: business case, service model, service implementation, device integration, and operation Leverage the authors' experience to design successful YANG models and avoid pitfalls

Network Programmability and Automation, Volume 1 , covers designing, implementing, monitoring and operating networks using programmable interfaces on network devices versus the legacy (and soon-to-be obsolete) methods and protocols such as the Command Line Interface (CLI) and Simple Network Management Protocol (SNMP). It discusses the protocols, tools, techniques and technologies upon which Network Programmability is based. Covering the fundamentals that a network engineer needs to transition to the software and programmability domains, the book opens with an introduction that lays the foundation by discussing the market trends and emerging technologies such as SDN, NFV and Cloud, and how network programmability skills are paramount for aligning oneself with these technologies. It provides network engineers with a solid foundation in Python programming and Linux in the context of network programmability and automation.

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 Application Policy supports granular application recognition and end-to-end treatment, for even encrypted applications • Identify malware, ransomware, and other threats in encrypted traffic

This authoritative guidebook combines comprehensive coverage of Cisco SD-WAN with complete official preparation for Cisco's new CCNP Enterprise ENSDWI 300-415 certification exam. Authored by a team of Cisco architects responsible for training both Cisco and partner engineers on SD-WAN solutions, it covers all facets of the product: benefits, use cases, components, workings, configuration, support, and more. Throughout, practical examples demonstrate Cisco SD-WAN at work in diverse cloud and premises environments, and the authors show how to apply Cisco SD-WAN technologies and tools in their own real-world environments. As Cisco's official ENSDWI 300-415 study guide, this book covers all exam objectives and is organized to simplify and streamline preparation. It also contains an access code for two full

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