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# Network Programmability & Automation

Skills for the Next-Generation  
Network Engineer



Matt Oswalt,  
Christian Adell,  
Scott S. Lowe &  
Jason Edelman

# Network Programmability And Automation

**Matt Oswalt,Christian Adell,Scott S.  
Lowe,Jason Edelman**



## **Network Programmability And Automation:**

**Network Programmability and Automation** Matt Oswalt, Christian Adell, Scott S. Lowe, Jason Edelman, 2022-06-23  
Network engineers are finding it harder than ever to rely solely on manual processes to get their jobs done. New protocols, technologies, delivery models, and the need for businesses to become more agile and flexible have made network automation essential. The updated second edition of this practical guide shows network engineers how to use a range of technologies and tools including Linux, Python, APIs, and Git to automate systems through code. This edition also includes brand new topics such as network development environments, cloud programming with Go, and a reference network automation architecture. Network Programmability and Automation will help you automate 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. You'll learn programming skills with Python and Go, data types, conditionals, loops, functions, and more. New Linux-based networking technologies and cloud-native environments and how to use them to bootstrap development environments for your network projects. Data formats and models: JSON, XML, YAML, Protobuf, and YANG. Jinja templating for creating network device configurations. A holistic approach to architecting network automation services. The role of application programming interfaces (APIs) in network automation. Source control with Git to manage code changes during the automation process. Cloud-native technologies like Docker and Kubernetes. How to automate network devices and services using Ansible, Nornir, and Terraform. Tools and technologies for developing and continuously integrating network automation.

**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 **Network**

**Programmability and Automation** Matt Oswalt,Christian Adell,Scott Lowe,Jason Edelman,2023-10-03 Network engineers are finding it harder than ever to rely solely on manual processes to get their jobs done New protocols technologies delivery models and the need for businesses to become more agile and flexible have made network automation essential The updated second edition of this practical guide shows network engineers how to use a range of technologies and tools including Linux Python APIs and Git to automate systems through code This edition also includes brand new topics such as network development environments cloud programming with Go and a reference network automation architecture Network Programmability and Automation will help you automate 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 You ll learn Programming skills with Python and Go data types conditionals loops functions and more How to work with Linux based systems the foundation for modern networking and cloud platforms Data formats and models JSON XML YAML and YANG Jinja templating 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 Cloud native technologies like Docker and Kubernetes How to automate network devices and services using Ansible Salt and Terraform Tools and technologies for developing and continuously integrating network automation Network Programmability and Automation Jason Edelman,Scott S. Lowe,Matt Oswalt,2018-02-02 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 This book will help you simplify tasks involved in configuring managing and operating network equipment topologies services and connectivity Page 4 of cover **Programming and Automating Cisco Networks** Ryan

Tischer,Jason Gooley,2016-09-09 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

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Network Programmability and Automation Khaled Abuelenain,Karim Okasha,Ahmed Elbornou,Jeff Doyle,2020

*Network Programmability with YANG* Benoit Claise,Joe Clarke,Jan Lindblad,2019-01-18 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

**Network Programmability with YANG** Benoit Claise,Joe Clarke,Jan Lindblad,2019     *Python Network Programming Techniques* Marcel Neidinger,2021-10-08 Become well versed with network programmability by solving the most commonly encountered problems using Python 3 and open source packages Key FeaturesExplore different Python packages to automate your infrastructureLeverage AWS APIs and the Python library Boto3 to administer your public cloud network efficientlyGet started with infrastructure automation by enhancing your network programming knowledgeBook 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

**Network Automation with Nautobot** Jason Edelman, Glenn Matthews, Josh VanDeraa, Ken Celenza, Christian Adell, Brad Haas, Bryan Culver, John Anderson, Gary Snider, 2024-05-28 Transform the way your network teams think about and deploy enterprise network automation through the power of Nautobot s open source platform Key Features Learn how documenting your network in Nautobot can accelerate your network automation journey Apply NetDevOps to your network by leveraging Nautobot as a network source of truth Minimize tool sprawl by extending using or building Nautobot Apps Purchase of the print or Kindle book includes a free PDF eBook Book Description Nautobot enables network teams to build a scalable and extensible network source of truth that provides a foundation to power any network automation stack With the help of this guide you ll learn how to deploy manage and integrate Nautobot as a source of truth and network automation platform As you progress you ll learn what a network source of truth is the relationship between data and network automation and network data models You ll also gain a broad understanding of Nautobot and its robust features that allow maximum flexibility A dedicated section will show you how to construct a single source of truth with Nautobot and help you explore its programmatic APIs including REST APIs GraphQL webhooks and Nautobot Job Hooks Later you ll develop custom data models and custom apps for Nautobot and experience its extensibility and powerful developer API In the last part of this book you ll discover how to deploy configuration compliance and automated remediation once Nautobot is deployed as a network source of truth By the end of this book you ll be able to design and manage Nautobot as a network source of truth understand its key features and extend Nautobot by creating custom data models and apps that suit your network and your team What you will learn Understand network sources of truth and the role they play in network automation architecture Gain an understanding of Nautobot as a network source and a network automation platform Convert Python scripts to enable self service Nautobot Jobs Understand how YAML files in Git can be easily integrated into Nautobot Get to grips with the NetDevOps ecosystem around Nautobot and its app ecosystem Delve into popular Nautobot Apps including Single Source of Truth and Golden Config Who this book

is for This book is for network engineers network automation engineers and software engineers looking to support their network teams by building custom Nautobot Apps A basic understanding of networking e g CCNA and knowledge of the fundamentals of Linux Python programming Jinja2 YAML and JSON are needed to get the most out of this book **Network Programmability with YANG** Joe Clarke,Jan Lindblad,Benoit Benoit,2019 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 **Network Automation Cookbook** Christian Adell,Jeffrey Kala,Karim Okasha,2025-08-29 Explore network automation with Ansible by configuring network infrastructure fast reliably and repeatedly all while creating a lab utilizing open and available network operating systems and tools Key Features Design build and automate network devices and cloud networking resources using Ansible Orchestrate workflows with AWX and integrate Nautobot as a Source of Truth Start with Event Driven Ansible and manage Terraform workflows seamlessly Purchase of the print or Kindle book includes a free PDF eBook Book Description Network Automation Cookbook now in its second edition is your essential guide to building robust network automation workflows across modern hybrid infrastructures Building on the foundation laid in the first edition this version dives deeper into Ansible s role in automating network infrastructure expanding coverage to include modern use cases across enterprise and cloud networks The book introduces Ansible s core concepts such as playbooks inventories variables loops and templates and progresses to advanced topics such as parallelism fact caching custom filters and modular design You will automate real world scenarios using Nokia SR Cisco IOS Juniper and Arista devices in a fully reproducible virtual lab The chapters also help you explore cloud automation for AWS Azure and Google Cloud and integrate validation tools such as PyATS Batfish and Nautobot New chapters cover event driven automation AWX for workflow execution and Terraform integration By using hands on labs and fully reproducible recipes you can practice real world scenarios and reinforce your skills By the end of this book you ll be well equipped with the tools and workflows to automate infrastructure efficiently with Ansible What you will learn Build Ansible playbooks roles and inventories from scratch Automate Cisco Juniper Arista and F5 network devices Deploy cloud networks on AWS Azure and Google Cloud Validate networks with Batfish PyATS and NAPALM Use AWX for workflow automation and job scheduling Integrate NetBox or Nautobot as dynamic inventory sources Run all recipes in

containerized hardware free labs Apply event driven automation using Ansible Rulebooks Who this book is for This second edition will help network engineers DevOps pros cloud architects automation engineers and NREs understand Ansible's role in network automation and how it integrates with tools like Terraform and event driven architectures The book requires basic networking knowledge and familiarity with YAML to maximize learning [Mastering Python Networking](#) Eric Chou, 2018-08-29 Master the art of using Python for a diverse range of network engineering tasks Key Features Explore the power of Python libraries to tackle difficult network problems efficiently and effectively Use Python for network device automation DevOps and software defined networking Become an expert in implementing advanced network related tasks with Python Book Description Networks in your infrastructure set the foundation for how your application can be deployed maintained and serviced Python is the ideal language for network engineers to explore tools that were previously available to systems engineers and application developers In this second edition of Mastering Python Networking you'll embark on a Python based journey to transition from traditional network engineers to network developers ready for the next generation of networks This book begins by reviewing the basics of Python and teaches you how Python can interact with both legacy and API enabled network devices As you make your way through the chapters you will then learn to leverage high level Python packages and frameworks to perform network engineering tasks for automation monitoring management and enhanced security In the concluding chapters you will use Jenkins for continuous network integration as well as testing tools to verify your network By the end of this book you will be able to perform all networking tasks with ease using Python What you will learn Use Python libraries to interact with your network Integrate Ansible 2.5 using Python to control Cisco Juniper and Arista eAPI network devices Leverage existing frameworks to construct high level APIs Learn how to build virtual networks in the AWS Cloud Understand how Jenkins can be used to automatically deploy changes in your network Use PyTest and unittest for Test Driven Network Development Who this book is for Mastering Python Networking is for network engineers and programmers who want to use Python for networking Basic familiarity with Python programming and networking related concepts such as Transmission Control Protocol Internet Protocol TCP/IP will be useful [Network Automation with Nautobot](#) Jason Edelman, Glenn Matthews, Josh Vanderaa, 2024-05-28 This book will help you understand why a network source of truth is needed for long term network automation success which will in turn save you hundreds of hours in deploying and integrating Nautobot into network automation *Hands-On Enterprise Automation with Python* Bassem Aly, 2018-06-28 Invent your own Python scripts to automate your infrastructure Key Features Make the most of Python libraries and modules to automate your infrastructure Leverage Python programming to automate server configurations and administration tasks Efficiently develop your Python skill set Book Description Hands On Enterprise Automation with Python starts by covering the set up of a Python environment to perform automation tasks as well as the modules libraries and tools you will be using We'll explore examples of network automation tasks using simple Python programs and Ansible Next we



will walk you through automating administration tasks with Python Fabric where you will learn to perform server configuration and administration along with system administration tasks such as user management database management and process management As you progress through this book you ll automate several testing services with Python scripts and perform automation tasks on virtual machines and cloud infrastructure with Python In the concluding chapters you will cover Python based offensive security tools and learn how to automate your security tasks By the end of this book you will have mastered the skills of automating several system administration tasks with Python What you will learn Understand common automation modules used in Python Develop Python scripts to manage network devices Automate common Linux administration tasks with Ansible and Fabric Managing Linux processes Administrate VMware OpenStack and AWS instances with Python Security automation and sharing code on GitHub Who this book is for Hands On Enterprise Automation with Python is for system administrators and DevOps engineers who are looking for an alternative to major automation frameworks such as Puppet and Chef Basic programming knowledge with Python and Linux shell scripting is necessary

**Mastering Python Networking** Eric Chou,Michael Kennedy,Mandy Whaley,2020-01-30 New edition of the bestselling guide to mastering Python Networking updated to Python 3 and including the latest on network data analysis Cloud Networking Ansible 2.8 and new libraries Key FeaturesExplore the power of Python libraries to tackle difficult network problems efficiently and effectively including pyATS Nornir and Ansible 2.8Use Python and Ansible for DevOps network device automation DevOps and software defined networkingBecome an expert in implementing advanced network related tasks with Python 3Book Description Networks in your infrastructure set the foundation for how your application can be deployed maintained and serviced Python is the ideal language for network engineers to explore tools that were previously available to systems engineers and application developers In Mastering Python Networking Third edition you ll embark on a Python based journey to transition from traditional network engineers to network developers ready for the next generation of networks This new edition is completely revised and updated to work with Python 3 In addition to new chapters on network data analysis with ELK stack Elasticsearch Logstash Kibana and Beats and Azure Cloud Networking it includes updates on using newer libraries such as pyATS and Nornir as well as Ansible 2.8 Each chapter is updated with the latest libraries with working examples to ensure compatibility and understanding of the concepts Starting with a basic overview of Python the book teaches you how it can interact with both legacy and API enabled network devices You will learn to leverage high level Python packages and frameworks to perform network automation tasks monitoring management and enhanced network security followed by Azure and AWS Cloud networking Finally you will use Jenkins for continuous integration as well as testing tools to verify your network What you will learnUse Python libraries to interact with your networkIntegrate Ansible 2.8 using Python to control Cisco Juniper and Arista network devicesLeverage existing Flask web frameworks to construct high level APIs Learn how to build virtual networks in the AWS Azure CloudLearn how to use Elastic Stack for network data

analysis Understand how Jenkins can be used to automatically deploy changes in your network Use PyTest and Unittest for Test Driven Network Development in networking engineering with Python Who this book is for Mastering Python Networking Third edition is for network engineers developers and SREs who want to use Python for network automation programmability and data analysis Basic familiarity with Python programming and networking related concepts such as Transmission Control Protocol Internet Protocol TCP IP will be useful *Mastering Python Networking* Eric Chou, 2020-01-29 New edition of the bestselling guide to mastering Python Networking updated to Python 3 and including the latest on network data analysis Cloud Networking Ansible 2.8 and new libraries Key Features Explore the power of Python libraries to tackle difficult network problems efficiently and effectively including pyATS Nornir and Ansible 2.8 Use Python and Ansible for DevOps network device automation DevOps and software defined networking Become an expert in implementing advanced network related tasks with Python 3 Book Description Networks in your infrastructure set the foundation for how your application can be deployed maintained and serviced Python is the ideal language for network engineers to explore tools that were previously available to systems engineers and application developers In Mastering Python Networking Third edition you'll embark on a Python based journey to transition from traditional network engineers to network developers ready for the next generation of networks This new edition is completely revised and updated to work with Python 3 In addition to new chapters on network data analysis with ELK stack Elasticsearch Logstash Kibana and Beats and Azure Cloud Networking it includes updates on using newer libraries such as pyATS and Nornir as well as Ansible 2.8 Each chapter is updated with the latest libraries with working examples to ensure compatibility and understanding of the concepts Starting with a basic overview of Python the book teaches you how it can interact with both legacy and API enabled network devices You will learn to leverage high level Python packages and frameworks to perform network automation tasks monitoring management and enhanced network security followed by Azure and AWS Cloud networking Finally you will use Jenkins for continuous integration as well as testing tools to verify your network What you will learn Use Python libraries to interact with your network Integrate Ansible 2.8 using Python to control Cisco Juniper and Arista network devices Leverage existing Flask web frameworks to construct high level APIs Learn how to build virtual networks in the AWS Azure Cloud Learn how to use Elastic Stack for network data analysis Understand how Jenkins can be used to automatically deploy changes in your network Use PyTest and Unittest for Test Driven Network Development in networking engineering with Python Who this book is for Mastering Python Networking Third edition is for network engineers developers and SREs who want to use Python for network automation programmability and data analysis Basic familiarity with Python programming and networking related concepts such as Transmission Control Protocol Internet Protocol TCP IP will be useful [Nokia Bell Labs 5G Professional Certification Certification Prep Guide : 350 Questions & Answers](#) CloudRoar Consulting Services, 2025-08-15 Get ready for the Nokia Bell Labs 5G Professional Certification exam with 350 questions and answers covering 5G architecture radio networks core

networks security deployment and troubleshooting Each question provides detailed explanations and practical examples to ensure exam readiness Ideal for telecom engineers and 5G professionals Nokia5G 5GProfessional TelecomCertification RadioNetworks CoreNetworks Security Deployment Troubleshooting ExamPreparation TechCertifications ITCertifications CareerGrowth CertificationGuide ProfessionalDevelopment NetworkEngineering TelecomSkills     **Infrastructure for AI Network Design and Architecture** Scott Andersen,2025-12-29 DESCRIPTION Artificial intelligence is redefining the digital backbone of our world As data demands explode and connectivity becomes intelligent networks are no longer passive pipelines rather they are evolving into dynamic self learning ecosystems that sense decide and adapt in real time This transformation marks the beginning of a new era where AI is not just an enabler but the foundation of modern organizational infrastructure AI security and automated collaboration The book guides the readers through how networks can think heal and evolve It also includes real world examples that reveal how AIOps digital twins and predictive analytics transform connectivity into a living learning system one that continuously optimizes performance resilience and trust By the end readers will gain a clear framework for assessing AI readiness implementing intelligent network strategies and managing emerging risks with confidence They will understand how to build and sustain adaptive secure and future ready infrastructures equipping themselves to lead their organizations through the AI powered revolution already reshaping our connected world WHAT YOU WILL LEARN Understand how AI transforms networks into intelligent ecosystems Evolution of infrastructure from static systems to self learning networks Learn how AI reshapes organizational workflows and governance models Discover how AIOps digital twins and automation redefine operational resilience Examine AI s expanding role in cybersecurity and Zero Trust enforcement Identify and mitigate emerging AI driven network risks and vulnerabilities Understand and reduce data debt to enhance AI performance Step by step roadmap to implement and scale AI ready networks WHO THIS BOOK IS FOR This book is designed for network architects AI strategists cybersecurity professionals data engineers and IT leaders navigating the union of artificial intelligence and infrastructure It also serves CIOs system integrators and digital transformation executives seeking to modernize enterprise networks for intelligent autonomous operations TABLE OF CONTENTS Section I AI s Foundational Impact 1 Understanding Your Network 2 AI s Impact on Modern Organizational Structure 3 AI driven Transformation in Networks 4 AI and Decision making Collaboration and Innovation Section II The Impact of AI on Organizational Security 5 AI in Cybersecurity 6 Implementing AI driven Security 7 Managing Artificial Intelligence Risks 8 Understanding Data Debt 9 Reducing Data Debt with AI 10 Case Studies in Data Debt Reduction Section III Improving Your Organization s Network Structure 11 Evaluating Your Current Network for AI Readiness 12 Designing AI optimized Networks 13 Step by step Implementation Plan for AI Networks 14 Sustaining and Scaling AI Initiatives 15 Conclusion APPENDIX A AI Integration Checklist APPENDIX B Network Build and Enablement APPENDIX C History of AI HDMI APPENDIX D References     *Modern Network Observability* David Flores,Christian

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