

Programming Automating Cisco Networks Programmability

Programming and Automating Cisco Networks Programming and Automating Cisco Networks Network Programmability and Automation Fundamentals Network Automation Made Easy Study Guide 300–435 ENAUTO: Automating and Programming Cisco Enterprise Solutions Certification Exam Practical Network Automation Network Programmability and Automation Python for Network Automation Study Guide for the Cisco 300–535 SPAUTO: Automating and Programming Cisco Service Provider Solutions Certification Exam Hacking Exposed Cisco Networks Network Automation Cookbook Mastering Python Networking Python Network Programming Techniques Network Programming and Automation Essentials Network Automation Cookbook Enterprise Networking, Security, and Automation Companion Guide (Ccnav7) Cloud Computing Practical Network Automation Introduction to Python Network Automation Cisco pyATS — Network Test and Automation Solution Ryan Tischer Ryan Tischer. Jason Gooley Khaled Abuelenain Ivo Pinto Anand Vemula Abhishek Ratan Matt Oswalt Thompson Carter Anand Vemula Andrew Vladimirov Christian Adell Eric Chou Marcel Neidinger Claus Topke Karim Okasha Cisco Networking Academy Venkata Josyula Abhishek Ratan Brendan Choi John Capobianco

Programming and Automating Cisco Networks Programming and Automating Cisco Networks Network Programmability and Automation Fundamentals Network Automation Made Easy Study Guide 300–435 ENAUTO: Automating and Programming Cisco Enterprise Solutions Certification Exam Practical Network Automation Network Programmability and Automation Python for Network Automation Study Guide for the Cisco 300–535 SPAUTO: Automating and Programming Cisco Service Provider Solutions Certification Exam Hacking Exposed Cisco Networks Network Automation Cookbook Mastering Python Networking Python Network Programming Techniques Network Programming and Automation Essentials Network Automation Cookbook Enterprise

Networking, Security, and Automation Companion Guide (Ccnv7) Cloud Computing Practical Network Automation Introduction to Python Network Automation Cisco pyATS — Network Test and Automation Solution *Ryan Tischer Ryan Tischer. Jason Gooley Khaled Abuelenain Ivo Pinto Anand Vemula Abhishek Ratan Matt Oswalt Thompson Carter Anand Vemula Andrew Vladimirov Christian Adell Eric Chou Marcel Neidinger Claus Topke Karim Okasha Cisco Networking Academy Venkata Josyula Abhishek Ratan Brendan Choi John Capobianco*

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

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

left hand column explore modern use cases for network automation and compare today s most widely used automation tools capture essential data for use in network automation using standard formats such as json xml and yaml get more value from the data your network can capture install ansible and master its building blocks including plays tasks modules variables conditionals loops and roles perform common networking tasks with ansible playbooks manage files devices vms cloud constructs apis and more see how ansible can be used to automate even the largest global network architectures discover how netdevops can transform your approach to automation and create a new netdevops pipeline step by step build a network automation strategy from

the ground up reflecting lessons from the world's largest enterprises 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 right hand column practical strategies and techniques for automating network infrastructure as networks grow ever more complex network professionals are seeking to automate processes for configuration management testing deployment and operation using automation they aim to lower expenses improve productivity reduce human error shorten time to market and improve agility in this guide expert practitioner ivo pinto presents all the concepts and techniques you'll need to move your entire physical and virtual infrastructure towards greater automation and maximize the value it delivers writing for experienced professionals ivo pinto reviews today's leading use cases for automation compares leading tools and presents a deep dive into using the open source ansible engine to automate common tasks you'll find everything you need from practical code snippets to real world case studies to a complete methodology for planning strategy this guide is for everyone seeking to improve network operations and productivity including system network storage and virtualization administrators network and security engineers and many other technical professionals and managers you can apply its vendor neutral concepts throughout your entire environment from servers to the cloud switches to security

the automating and programming cisco enterprise solutions 300-435 enauto study guide offers a comprehensive approach to mastering network automation with cisco solutions covering key topics from basic network programmability to advanced automation techniques this guide equips readers with the skills needed to manage configure and automate network devices and services efficiently it begins with an overview of network programmability and automation contrasting traditional networking methods with software defined networking sdn and introduces essential tools like apis and model driven programmability the guide then delves into python programming emphasizing its application for network automation with practical scripts and usage of popular networking modules like netmiko paramiko and requests chapters focused on cisco's tools such as cisco dna center sd wan vmanage and meraki explore their automation capabilities practical exercises are included to demonstrate how to use these apis for automating tasks such as policy configurations and troubleshooting the guide also covers telemetry netconf and restconf

providing readers with in depth knowledge of model driven telemetry and device configuration automation it concludes with a focus on troubleshooting automation workflows integration with ci cd tools like jenkins and gitlab and version control using git and github through detailed explanations and real world use cases the guide prepares readers for success in automating cisco enterprise networks equipping them with the practical knowledge required to excel in the 300 435 enauto exam and beyond

get more from your network with automation tools to increase its effectiveness about this book get started with network automation and different automation tasks with relevant use cases apply software design principles such as continuous integration and devops to your network toolkit guides you through some best practices in automation who this book is for if you are a network engineer looking for an extensive guide to help you automate and manage your network efficiently then this book is for you what you will learn get the detailed analysis of network automation trigger automations through available data factors improve data center robustness and security through specific access and data digging get an access to apis from excel for dynamic reporting set up a communication with ssh based devices using netmiko make full use of practical use cases and best practices to get accustomed with the various aspects of network automation in detail network automation is the use of it controls to supervise and carry out every day network management functions it plays a key role in network virtualization technologies and network functions the book starts by providing an introduction to network automation sdn and its applications which include integrating devops tools to automate the network efficiently it then guides you through different network automation tasks and covers various data digging and reporting methodologies such as ipv6 migration dc relocations and interface parsing all the while retaining security and improving data center robustness the book then moves on to the use of python and the management of ssh keys for machine to machine m2m communication all followed by practical use cases the book also covers the importance of ansible for network automation including best practices in automation ways to test automated networks using different tools and other important techniques by the end of the book you will be well acquainted with the various aspects of network automation style and approach a clear concise and straightforward book that will enable you to automate networks and improve performance

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

step into the future of networking with python for network automation this essential guide by thompson carter is crafted for network engineers it professionals and python enthusiasts eager to streamline network management discover how python with libraries like netmiko paramiko and napalm is transforming the way networks are monitored configured and secured in an industry where time is critical and errors can be costly network automation is the key to scaling operations and ensuring consistency this book offers a hands on approach with real world case studies allowing readers to set up automated tasks build robust monitoring systems and manage configurations with ease whether you re new to programming or a seasoned engineer python for network automation provides practical actionable knowledge to enhance your productivity and reduce downtime unlock the power of automated networks and take control of your network infrastructure with python as your tool bring efficiency resilience and innovation to your

organization

this book provides a comprehensive guide to automating and programming cisco service provider solutions particularly focusing on the 300 535 spauto exam it covers foundational concepts such as network programmability apis automation protocols and python programming designed to help professionals develop the necessary skills for managing and automating network infrastructure key topics include the use of software defined networking sdn yang models and protocols like netconf restconf grpc and gnmi which are essential for configuring and managing modern network environments in depth sections are dedicated to leveraging cisco s tools such as pyats and genie for creating automation scripts managing configurations and streamlining network management the book also covers advanced topics such as model driven telemetry network device configuration using network services orchestrator nso and integrating ci cd pipelines to automate network updates and testing additionally the book emphasizes the importance of troubleshooting debugging and following best practices for ensuring the reliability of network automation it provides hands on guidance for automating cisco ios xr nx os and ios xe devices enabling network engineers to enhance their automation workflows and deploy solutions efficiently by blending theory and practical applications this book equips network engineers with the tools and knowledge to succeed in automation driven environments providing a crucial resource for the spauto certification and real world network automation challenges

here is the first book to focus solely on cisco network hacking security auditing and defense issues using the proven hacking exposed methodology this book shows you how to locate and patch system vulnerabilities by looking at your cisco network through the eyes of a hacker the book covers device specific and network centered attacks and defenses and offers real world case studies

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

become an expert in implementing advanced network related tasks with python key features build the skills to perform all networking tasks using python with ease use python for network device automation devops and software defined networking get practical guidance to networking with python book descriptionthis book begins with a review of the tcp ip protocol suite and a refresher of the core elements of the python language next you will start using python and supported libraries to automate network

tasks from the current major network vendors we will look at automating traditional network devices based on the command line interface as well as newer devices with api support with hands on labs we will then learn the concepts and practical use cases of the ansible framework in order to achieve your network goals we will then move on to using python for devops starting with using open source tools to test secure and analyze your network then we will focus on network monitoring and visualization we will learn how to retrieve network information using a polling mechanism ow based monitoring and visualizing the data programmatically next we will learn how to use the python framework to build your own customized network web services in the last module you will use python for sdn where you will use a python based controller with openflow in a hands on lab to learn its concepts and applications we will compare and contrast openflow openstack opendaylight and nfv finally you will use everything you ve learned in the book to construct a migration plan to go from a legacy to a scalable sdn based network what you will learn review all the fundamentals of python and the tcp ip suite use python to execute commands when the device does not support the api or programmatic interaction with the device implement automation techniques by integrating python with cisco juniper and arista eapi integrate ansible using python to control cisco juniper and arista networks achieve network security with python build flask based web service apis with python construct a python based migration plan from a legacy to scalable sdn based network who this book is for if you are a network engineer or a programmer who wants to use python for networking then this book is for you a basic familiarity with networking related concepts such as tcp ip and a familiarity with python programming will be useful

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

unleash the power of automation by mastering network programming fundamentals using python and go best practices purchase of the print or kindle book includes a free pdf ebook key features understand the fundamentals of network programming and automation learn tips and tricks to transition from traditional networking to automated networks solve everyday problems with automation frameworks in python and go book description network programming and automation unlike traditional networking is a modern day skill that helps in configuring managing and operating networks and network devices this book will guide you with important information helping you set up and start working with network programming and automation with network programming and automation essentials you'll learn the basics of networking in brief you'll explore the network programming and automation ecosystem learn about the leading programmable interfaces and go through the protocols tools techniques and technologies associated with network programming you'll also master network automation using python and go with hands on labs and real network emulation in this comprehensive guide by the end of this book you'll be well equipped to program and automate networks

efficiently what you will learn understand the foundation of network programming explore software defined networks and related families recognize the differences between go and python through comparison leverage the best practices of go and python create your own network automation testing framework using network emulation acquire skills in using automation frameworks and strategies for automation who this book is for this book is for network architects network engineers and software professionals looking to integrate programming into networks network engineers following traditional techniques can use this book to transition into modern day network automation and programming familiarity with networking concepts is a prerequisite

take your network automation skills to the next level with practical recipes on managing network devices from a variety of vendors like cisco juniper and arista key features use ansible to automate network infrastructure with the help of step by step instructions implement network automation best practices to save cost avoid critical errors and reduce downtime deliver a robust automation framework by integrating ansible with napalm netbox and batfish book description network automation cookbook is designed to help system administrators network engineers and infrastructure automation engineers to centrally manage switches routers and other devices in their organization's network this book will help you gain hands on experience in automating enterprise networks and take you through core network automation techniques using the latest version of ansible and python with the help of practical recipes you'll learn how to build a network infrastructure that can be easily managed and updated as it scales through a large number of devices you'll also cover topics related to security automation and get to grips with essential techniques to maintain network robustness as you make progress the book will show you how to automate networks on public cloud providers such as aws google cloud platform and azure finally you will get up and running with ansible 2.9 and discover troubleshooting techniques and network automation best practices by the end of this book you'll be able to use ansible to automate modern network devices and integrate third party tools such as napalm netbox and batfish easily to build robust network automation solutions what you will learn understand the various components of ansible automate network resources in aws gcp and azure cloud solutions use iac concepts to design and build network solutions automate network devices such as cisco juniper arista and f5 use netbox to build network inventory and integrate it with ansible validate networks using ansible and batfish who this book is for this

ansible network automation book is for network and devops engineers interested in automating complex network tasks prior understanding of networking and basic linux knowledge is required

enterprise networking security and automation ccna v7 companion guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the enterprise networking security and automation course and organize your time the book s features help you focus on important concepts to succeed in this course chapter objectives review core concepts by answering the focus questions listed at the beginning of each chapter key terms refer to the lists of networking vocabulary introduced and highlighted in context in each chapter glossary consult the comprehensive glossary with more than 250 terms summary of activities and labs maximize your study time with this complete list of all associated practice exercises at the end of each chapter check your understanding evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes the answer key explains each answer how to look for this icon to study the steps you need to learn to perform certain tasks interactive activities reinforce your understanding of topics with dozens of exercises from the online course identified throughout the book with this icon packet tracer activities explore and visualize networking concepts using packet tracer exercises interspersed throughout the chapters and provided in the accompanying labs study guide book videos watch the videos embedded within the online course hands on labs work through all the course labs and additional class activities that are included in the course and published in the separate labs study guide part of the cisco networking academy series from cisco press books in this series support and complement the cisco networking academy curriculum

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detailed guidance on delivering infrastructure as a service iaas platform as a service paas and software as a service saas this book s replicable solutions and fully tested best practices will help enterprises service providers consultants and cisco partners meet the challenge of provisioning end to end cloud infrastructures drawing on extensive experience working with leading cloud vendors and integrators the authors present detailed operations workflow examples proven techniques for operating cloud based network compute and storage infrastructure a comprehensive management reference architecture and a complete case study demonstrating rapid lower cost solutions design cloud computing will be an indispensable resource for all network it professionals and managers involved with planning implementing or managing the next generation of cloud computing services venkata josh josyula ph d ccie no 13518 is a distinguished services engineer in cisco services technology group cstg and advises cisco customers on oss bss architecture and solutions malcolm orr solutions architect for cisco s services technology solutions advises telecoms and enterprise clients on architecting building and operating oss bss and cloud management stacks he is cisco s lead architect for several tier 1 public cloud projects greg page has spent the last eleven years with cisco in technical consulting roles relating to data center architecture technology and service provider security he is now exclusively focused on developing cloud iaas solutions with service providers and systems integrator partners review the key concepts needed to successfully deploy clouds and cloud based services transition common enterprise design patterns and use cases to the cloud master architectural principles and infrastructure designs for real time managed it services understand the cisco approach to cloud related technologies systems and services develop a cloud management architecture using itil tmf and itu tmn standards implement best practices for cloud service provisioning activation and management automate cloud infrastructure to simplify service delivery monitoring and assurance choose and implement the right billing chargeback approaches for your business design and build iaas services from start to finish manage the unique capacity challenges associated with sporadic real time demand provide a consistent and optimal cloud user experience this book is part of the networking technology series from cisco press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers category cloud computing covers virtualized data centers

leverage the power of python ansible and other network automation tools to make your network robust and more secure key featuresget introduced to the concept of network automation with relevant use casesapply continuous integration and devops to improve your network performanceimplement effective automation using tools such as python ansible and morebook description network automation is the use of it controls to supervise and carry out everyday network management functions it plays a key role in network virtualization technologies and network functions the book starts by providing an introduction to network automation and its applications which include integrating devops tools to automate the network efficiently it then guides you through different network automation tasks and covers various data digging and performing tasks such as ensuring golden state configurations using templates interface parsing this book also focuses on intelligent operations using artificial intelligence and troubleshooting using chatbots and voice commands the book then moves on to the use of python and the management of ssh keys for machine to machine m2m communication all followed by practical use cases the book also covers the importance of ansible for network automation including best practices in automation ways to test automated networks using tools such as puppet saltstack and chef and other important techniques through practical use cases and examples this book will acquaint you with the various aspects of network automation it will give you the solid foundation you need to automate your own network without any hassle what you will learnget started with the fundamental concepts of network automationperform intelligent data mining and remediation based on triggersunderstand how aiops works in operationstrigger automation through data factorsimprove your data center s robustness and security through data diggingget access infrastructure through api framework for chatbot and voice interactive troubleshootingssset up communication with ssh based devices using netmikowho this book is for if you are a network engineer or a devops professional looking for an extensive guide to help you automate and manage your network efficiently then this book is for you no prior experience with network automation is required to get started however you will need some exposure to python programming to get the most out of this book

learn and implement network automation within the enterprise network using python 3 this introductory book will be your guide to building an integrated virtual networking lab to begin your network automation journey and master the basics of python network

automation the book features a review of the practical python network automation scripting skills and tips learned from the production network so you can safely test and practice in a lab environment first various python modules such as paramiko and netmiko pandas re and much more you ll also develop essential skills such as python scripting regular expressions linux and windows administration vmware virtualization and cisco networking from the comfort of your laptop pc with no actual networking hardware finally you will learn to write a fully automated and working cisco ios xe upgrade application using python introduction to python network automation uses a canonical order where you begin at the bottom and by the time you have completed this book you will at least reach the intermediate level of python coding for enterprise networking automation using native python tools what you ll learn build a proper gns3 based networking lab for python network automation needs write the basics of python codes in both the windows and linux environments control network devices using telnet ssh and snmp protocols using python codes understand virtualization and how to use vmware workstation examine virtualization and how to use vmware workstation pro develop a working cisco ios upgrade application who this book is for it engineers and developers network managers and students who would like to learn network automation using python

unlock the power of automated network testing with the cisco pyats framework written by industry experts john capobianco and dan wade cisco pyats network test and automation solution is a comprehensive guide to the cisco pyats framework a python based environment for network testing device configuration parsing apis and parallel programming capobianco and wade offer in depth insights into the extensive capabilities of pyats and the pyats library genie you ll learn how to leverage pyats for network testing including software version testing interface testing neighbor testing and reachability testing you ll discover how to generate intent based configurations create mock devices and integrate pyats into larger workflows using ci cd pipelines and artificial intelligence you ll explore the pyats blitz feature which introduces a low code no code approach to network testing by allowing you to configure devices and write test cases using yaml much like ansible and you ll learn how to reset devices during or after testing with the pyats clean feature build a pyats image from scratch for containerized application deployment and much more whether you re a network professional software developer or preparing for the cisco devnet expert lab exam this book is a must have resource

understand the foundations of netdevops and the modern network engineer s toolkit install upgrade and work with the pyats framework and library define test cases control the flow of test execution and review test results with built in reporting features generate automated network documentation with jinja2 templates and genie conf objects apply ci cd practices in network automation with gitlab ansible and pyats leverage artificial intelligence in pyats for enhanced network automation

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Introduction

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