

Programming Automating Cisco Networks

Programmability

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Multiprocessor Systems *Khaled Abuelenain Ryan Tischer Ryan Tischer. Jason Gooley Matt Oswalt Kevin Wallace Wansoo Kim Niraj Rajnikant Shah James A. Rehg William Lester Plishker Elizabeth Seamans Glen E. Clarke Panos C. Lekkas (Ace) American Council on Education Kaushik Ravindran*

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

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

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

configuration of cisco devices e g routers and switches has traditionally been performed at the command line however an industry wide paradigm shift is now underway where more and more configuration is being performed by software an approach commonly referred to as software defined networking sdn sdn is an emerging architecture that makes it easier and more cost effective to implement network policies and manage network resources it does this by decoupling the network control from the network hardware which continues to manage

forwarding functions allowing network control to become directly programmable and the underlying network infrastructure to be managed by applications and network services rather than individually configured network programmability fundamentals livelessons introduces the theory surrounding sdn networks and examines components found in a cisco aci network additionally this course covers python programming a key skill required for network programmability finally this course walks through multiple network programmability exercises which can be performed for free at cisco s devnet site resource description page

this book is for the network engineer who wants to begin the programmability the basic of python is explained from the variable to api and then there are over 20 examples including cisco catalyst nexus meraki ise asa and more also at the youtube each example is explained in english it s time for you to start the code

this outstanding book for programmable logic controllers focuses on the theory and operation of plc systems with an emphasis on program analysis and development the book is written in easy to read and understandable language with many crisp illustrations and many practical examples it describes the plc instructions for the allen bradley plc 5 slc 500 and logix processors with an emphasis on the slc 500 system using numerous figures tables and example problems new to this edition are two column and four color interior design that improves readability and figure placement and all the chapter questions and problems are listed in one convenient location in appendix d with page locations for all chapter references in the questions and problems this book describes the technology so that readers can learn plcs with no previous experience in plcs or discrete and analog system control

this new all in one exam guide covers every topic on the current version of cisco s cct and ccna exams take the 2020 versions of the cisco certified technician cct and cisco certified network associate ccna exams with complete confidence using the detailed information contained in this highly effective self study system written by a pair of cisco networking professionals and training experts cct ccna routing and switching all in one exam guide exams 100 490 200 301 fully explains all subjects covered on both exams and contains practice questions that mirror those on the live test in tone format and content beyond fully preparing you for the challenging exam the book also serves as a valuable on the job reference covers all topics on both exams including network fundamentals osi model tcp ip protocol suite subnetting and vlsm cisco device and ios basics cisco device management switching static and dynamic routing ip services and ipv6 wireless security fundamentals implementing security on cisco devices automation and programmability

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