

Python Api Cisco

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TROUBLESHOOTING CISCO NEXUS SWITCHES AND NX-OS - VINIT JAIN 2018-05-22

THE DEFINITIVE DEEP-DIVE GUIDE TO HARDWARE AND SOFTWARE TROUBLESHOOTING ON CISCO NEXUS SWITCHES THE CISCO NEXUS PLATFORM AND NX-OS SWITCH OPERATING SYSTEM COMBINE TO DELIVER UNPRECEDENTED SPEED, CAPACITY, RESILIENCE, AND FLEXIBILITY IN TODAY'S DATA CENTER NETWORKS. TROUBLESHOOTING CISCO NEXUS SWITCHES AND NX-OS IS YOUR SINGLE REFERENCE FOR QUICKLY IDENTIFYING AND SOLVING PROBLEMS WITH THESE BUSINESS-CRITICAL TECHNOLOGIES. THREE EXPERT AUTHORS DRAW ON DEEP EXPERIENCE WITH LARGE CISCO CUSTOMERS, EMPHASIZING THE MOST COMMON ISSUES IN REAL-WORLD DEPLOYMENTS, INCLUDING PROBLEMS THAT HAVE CAUSED MAJOR DATA CENTER OUTAGES. THEIR AUTHORITATIVE, HANDS-ON GUIDANCE ADDRESSES BOTH FEATURES AND ARCHITECTURE, HELPING YOU TROUBLESHOOT BOTH CONTROL PLANE FORWARDING AND DATA PLANE/DATA PATH PROBLEMS AND USE NX-OS APIs TO AUTOMATE AND SIMPLIFY TROUBLESHOOTING. THROUGHOUT, YOU'LL FIND REAL-WORLD CONFIGURATIONS, INTUITIVE ILLUSTRATIONS, AND PRACTICAL INSIGHTS INTO KEY PLATFORM-SPECIFIC BEHAVIORS. THIS IS AN INDISPENSABLE TECHNICAL RESOURCE FOR ALL CISCO NETWORK CONSULTANTS, SYSTEM/SUPPORT ENGINEERS, NETWORK OPERATIONS PROFESSIONALS, AND CCNP/CCIE CERTIFICATION CANDIDATES WORKING IN THE DATA CENTER DOMAIN. · UNDERSTAND THE NX-OS OPERATING SYSTEM AND ITS POWERFUL TROUBLESHOOTING TOOLS · SOLVE PROBLEMS WITH CARDS, HARDWARE DROPS, FABRICS, AND CoPP POLICIES · TROUBLESHOOT NETWORK PACKET SWITCHING AND FORWARDING · PROPERLY DESIGN, IMPLEMENT, AND TROUBLESHOOT ISSUES RELATED TO VIRTUAL PORT CHANNELS (VPC AND VPC+) · OPTIMIZE ROUTING THROUGH FILTERING OR PATH MANIPULATION · OPTIMIZE IP/IPv6 SERVICES AND FHRP PROTOCOLS (INCLUDING HSRP, VRRP, AND ANYCAST HSRP) · TROUBLESHOOT EIGRP, OSPF, AND IS-IS NEIGHBOR RELATIONSHIPS AND ROUTING PATHS · IDENTIFY AND RESOLVE ISSUES WITH NEXUS ROUTE MAPS · LOCATE PROBLEMS WITH BGP NEIGHBOR ADJACENCIES AND ENHANCE PATH SELECTION · TROUBLESHOOT HIGH AVAILABILITY COMPONENTS (BFD,

SSO, ISSU, AND GIR) · UNDERSTAND MULTICAST PROTOCOLS AND TROUBLESHOOTING TECHNIQUES · IDENTIFY AND SOLVE PROBLEMS WITH OTV · USE NX-OS APIs TO AUTOMATE TROUBLESHOOTING AND ADMINISTRATIVE TASKS

CCA CISCO CERTIFIED ASSOCIATE DEVNET STUDY GUIDE: EXAM 200-901 - LAMMLE 2023-11-29

PYTHON PROGRAMMING BLUEPRINTS - DANIEL FURTADO 2018-02-27

HOW TO BUILD USEFUL, REAL-WORLD APPLICATIONS IN THE PYTHON PROGRAMMING LANGUAGE KEY FEATURES DELIVER SCALABLE AND HIGH-PERFORMING APPLICATIONS IN PYTHON. DELVE INTO THE GREAT ECOSYSTEM OF PYTHON FRAMEWORKS AND LIBRARIES THROUGH PROJECTS THAT YOU WILL BUILD WITH THIS BOOK. THIS COMPREHENSIVE GUIDE WILL HELP YOU DEMONSTRATE THE POWER OF PYTHON BY BUILDING PRACTICAL PROJECTS. BOOK DESCRIPTION PYTHON IS A VERY POWERFUL, HIGH-LEVEL, OBJECT-ORIENTED PROGRAMMING LANGUAGE. IT'S KNOWN FOR ITS SIMPLICITY AND HUGE COMMUNITY SUPPORT. PYTHON PROGRAMMING BLUEPRINTS WILL HELP YOU BUILD USEFUL, REAL-WORLD APPLICATIONS USING PYTHON. IN THIS BOOK, WE WILL COVER SOME OF THE MOST COMMON TASKS THAT PYTHON DEVELOPERS FACE ON A DAILY BASIS, INCLUDING PERFORMANCE OPTIMIZATION AND MAKING WEB APPLICATIONS MORE SECURE. WE WILL FAMILIARIZE OURSELVES WITH THE ASSOCIATED SOFTWARE STACK AND MASTER ASYNCHRONOUS FEATURES IN PYTHON. WE WILL BUILD A WEATHER APPLICATION USING COMMAND-LINE PARSING. WE WILL THEN MOVE ON TO CREATE A SPOTIFY REMOTE CONTROL WHERE WE'LL USE OAUTH AND THE SPOTIFY WEB API. THE NEXT PROJECT WILL COVER REACTIVE EXTENSIONS BY TEACHING YOU HOW TO CAST VOTES ON TWITTER THE PYTHON WAY. WE WILL ALSO FOCUS ON WEB DEVELOPMENT BY USING THE FAMOUS DJANGO FRAMEWORK TO CREATE AN ONLINE GAME STORE. WE WILL THEN CREATE A WEB-BASED MESSENGER USING THE NEW NAMEKO MICROSERVICE FRAMEWORK. WE WILL COVER TOPICS LIKE AUTHENTICATING

USERS AND, STORING MESSAGES IN REDIS. BY THE END OF THE BOOK, YOU WILL HAVE GAINED HANDS-ON EXPERIENCE IN CODING WITH PYTHON. WHAT YOU WILL LEARN LEARN OBJECT-ORIENTED AND FUNCTIONAL PROGRAMMING CONCEPTS WHILE DEVELOPING PROJECTS THE DOS AND DON'TS OF STORING PASSWORDS IN A DATABASE DEVELOP A FULLY FUNCTIONAL WEBSITE USING THE POPULAR DJANGO FRAMEWORK USE THE BEAUTIFUL SOUP LIBRARY TO PERFORM WEB SCRAPPING GET STARTED WITH CLOUD COMPUTING BY BUILDING MICROSERVICE AND SERVERLESS APPLICATIONS IN AWS DEVELOP SCALABLE AND COHESIVE MICROSERVICES USING THE NAMEKO FRAMEWORK CREATE SERVICE DEPENDENCIES FOR REDIS AND POSTGRESQL WHO THIS BOOK IS FOR THIS BOOK IS FOR SOFTWARE DEVELOPERS WHO ARE FAMILIAR WITH PYTHON AND WANT TO GAIN HANDS-ON EXPERIENCE WITH WEB AND SOFTWARE DEVELOPMENT PROJECTS. A BASIC KNOWLEDGE OF PYTHON PROGRAMMING IS REQUIRED.

CCNA DATA CENTER DCICT 640-916 OFFICIAL CERT GUIDE - NAVAI SHAMSEE
2015-02-12

CCNA DATA CENTER DCICT 640-916 OFFICIAL CERT GUIDE CCNA DATA CENTER DCICT 640-916 OFFICIAL CERT GUIDE FROM CISCO PRESS ENABLES YOU TO SUCCEED ON THE EXAM THE FIRST TIME AND IS THE ONLY SELF-STUDY RESOURCE APPROVED BY CISCO. A TEAM OF LEADING CISCO DATA CENTER EXPERTS SHARES PREPARATION HINTS AND TEST-TAKING TIPS, HELPING YOU IDENTIFY AREAS OF WEAKNESS AND IMPROVE BOTH YOUR CONCEPTUAL KNOWLEDGE AND HANDS-ON SKILLS. THIS COMPLETE, OFFICIAL STUDY PACKAGE INCLUDES --A TEST-PREPARATION ROUTINE PROVEN TO HELP YOU PASS THE EXAM --"DO I KNOW THIS ALREADY?" QUIZZES, WHICH ENABLE YOU TO DECIDE HOW MUCH TIME YOU NEED TO SPEND ON EACH SECTION --PART-ENDING EXERCISES, WHICH HELP YOU DRILL ON KEY CONCEPTS YOU MUST KNOW THOROUGHLY --THE POWERFUL PEARSON IT CERTIFICATION PRACTICE TEST SOFTWARE, COMPLETE WITH HUNDREDS OF WELL-REVIEWED, EXAM-REALISTIC QUESTIONS, CUSTOMIZATION OPTIONS, AND DETAILED PERFORMANCE REPORTS --STUDY PLAN SUGGESTIONS AND TEMPLATES TO HELP YOU ORGANIZE AND OPTIMIZE YOUR STUDY TIME --A FINAL PREPARATION CHAPTER THAT GUIDES YOU THROUGH TOOLS AND RESOURCES TO HELP YOU CRAFT YOUR REVIEW AND TEST-TAKING STRATEGIES WELL REGARDED FOR ITS LEVEL OF DETAIL, STUDY PLANS, ASSESSMENT FEATURES, AND CHALLENGING REVIEW QUESTIONS AND EXERCISES, THIS OFFICIAL STUDY GUIDE HELPS YOU MASTER THE CONCEPTS AND TECHNIQUES THAT ENSURE YOUR EXAM SUCCESS. THE OFFICIAL STUDY GUIDE HELPS YOU MASTER TOPICS ON THE CCNA DATA CENTER DCICT 640-916 EXAM, INCLUDING --CISCO DATA CENTER CONCEPTS: ARCHITECTURES, DEVICES, LAYERS, MODULAR DESIGN, VPC, FABRICPATH, CISCO NEXUS SWITCHES, AND MORE --DATA CENTER UNIFIED FABRIC: FCoE, MULTIHOP, VIFS, FEX, AND SETUP --STORAGE NETWORKING: CONCEPTS, TARGETS, VERIFICATION, CONNECTIVITY, ZONING, SETUP, AND CONFIGURATION --DATA CENTER VIRTUALIZATION: SERVERS, DEVICES, AND NEXUS 1000V, INCLUDING SETUP AND OPERATIONS --CISCO UNIFIED COMPUTING: CONCEPTS, DISCOVERY, CONNECTIVITY, SETUP, AND UCSM --DATA CENTER NETWORK SERVICES: ACE LOAD BALANCING, VIRTUAL

CONTEXT, HA, MANAGEMENT, GLOBAL/LOCAL SOLUTIONS, AND WAAS THE CD-ROM CONTAINS MORE THAN 450 PRACTICE QUESTIONS FOR THE EXAM, MEMORY TABLE EXERCISES AND ANSWER KEYS, AND A STUDY PLANNER TOOL. INCLUDES EXCLUSIVE OFFER FOR 70% OFF PREMIUM EDITION eBook AND PRACTICE TEST PEARSON IT CERTIFICATION PRACTICE TEST MINIMUM SYSTEM REQUIREMENTS: WINDOWS XP (SP3), WINDOWS VISTA (SP2), WINDOWS 7, OR WINDOWS 8; MICROSOFT .NET FRAMEWORK 4.0 CLIENT; PENTIUM CLASS 1GHZ PROCESSOR (OR EQUIVALENT); 512 MB RAM; 650 MB DISK SPACE PLUS 50 MB FOR EACH DOWNLOADED PRACTICE EXAM; ACCESS TO THE INTERNET TO REGISTER AND DOWNLOAD EXAM DATABASES

PYTHON FOR DATA ANALYSIS - WES MCKINNEY 2017-09-25

GET COMPLETE INSTRUCTIONS FOR MANIPULATING, PROCESSING, CLEANING, AND CRUNCHING DATASETS IN PYTHON. UPDATED FOR PYTHON 3.6, THE SECOND EDITION OF THIS HANDS-ON GUIDE IS PACKED WITH PRACTICAL CASE STUDIES THAT SHOW YOU HOW TO SOLVE A BROAD SET OF DATA ANALYSIS PROBLEMS EFFECTIVELY. YOU'LL LEARN THE LATEST VERSIONS OF PANDAS, NUMPY, IPYTHON, AND JUPYTER IN THE PROCESS. WRITTEN BY WES MCKINNEY, THE CREATOR OF THE PYTHON PANDAS PROJECT, THIS BOOK IS A PRACTICAL, MODERN INTRODUCTION TO DATA SCIENCE TOOLS IN PYTHON. IT'S IDEAL FOR ANALYSTS NEW TO PYTHON AND FOR PYTHON PROGRAMMERS NEW TO DATA SCIENCE AND SCIENTIFIC COMPUTING. DATA FILES AND RELATED MATERIAL ARE AVAILABLE ON GITHUB. USE THE IPYTHON SHELL AND JUPYTER NOTEBOOK FOR EXPLORATORY COMPUTING LEARN BASIC AND ADVANCED FEATURES IN NUMPY (NUMERICAL PYTHON) GET STARTED WITH DATA ANALYSIS TOOLS IN THE PANDAS LIBRARY USE FLEXIBLE TOOLS TO LOAD, CLEAN, TRANSFORM, MERGE, AND RESHAPE DATA CREATE INFORMATIVE VISUALIZATIONS WITH MATPLOTLIB APPLY THE PANDAS GROUPBY FACILITY TO SLICE, DICE, AND SUMMARIZE DATASETS ANALYZE AND MANIPULATE REGULAR AND IRREGULAR TIME SERIES DATA LEARN HOW TO SOLVE REAL-WORLD DATA ANALYSIS PROBLEMS WITH THOROUGH, DETAILED EXAMPLES

CISCO NETWORK PROGRAMMABILITY - WANSOO KIM 2022-02-01

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!

INTRODUCTION TO PYTHON NETWORK AUTOMATION - BRENDAN CHOI 2021-05-23

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.

NETWORK PROGRAMMABILITY AND AUTOMATION - KHALED ABUELENAIN 2020

UNDERSTANDING AND USING APIS - MUHAMMAD AFAQ KHAN 2019-12-08

THIS GUIDE IS FOR ANYONE WHO'S STUDYING FOR THE CISCO DEVNET ASSOCIATE (DEVASC) 200-901 V1.0 EXAM AND FEELS THAT HE OR SHE COULD TAKE SOME HELP ON UNDERSTANDING AND USING APPLICATION PROGRAMMING INTERFACES (APIS) RELATED TOPICS. THESE ARE AREAS THAT MOST NETWORK ENGINEERS DO NOT WORK ON IN THEIR DAY TO DAY WORK. EACH CUSTOMER WILL ALSO GET COMPLIMENTARY ACCESS TO A DEVNET ASSOCIATE QUIZ ON FULLSTACKNETWORKER.COM. EACH CHAPTER CONTAINS A "SUMMARY" SECTION WHICH CAPTURES THE KEY CONCEPTS DESCRIBED IN THE GIVEN CHAPTER.

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AUTHOR BIO MUHAMMAD AFAQ KHAN STARTED HIS PROFESSIONAL CAREER AT CISCO TAC SAN JOSE AND PASSED HIS FIRST CCIE IN 2002 (#9070). HE HELD MULTIPLE TECHNICAL AND MANAGEMENT POSITIONS AT CISCO SAN JOSE HQ OVER HIS 11 YEARS OF TENURE AT THE COMPANY BEFORE MOVING INTO CLOUD SOFTWARE AND DATA CENTER INFRASTRUCTURE IT INDUSTRIES. HE HAS WORKED AT STARTUPS AS WELL AS FORTUNE 100 COMPANIES IN SENIOR LEADERSHIP POSITIONS OVER HIS CAREER. HE IS ALSO A PUBLISHED AUTHOR (CISCO PRESS, 2009) AND HOLDS MULTIPLE PATENTS IN THE AREAS OF NETWORKING, SECURITY, AND VIRTUALIZATION. CURRENTLY, HE IS A FOUNDER AT FULL STACK NETWORKER AND A VOCAL ADVOCATE FOR NETWORK AUTOMATION TECHNOLOGIES AND NETDEVOPS.

UBIQUITOUS NETWORKING - ESSAID SABIR 2017-11-07

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE THIRD INTERNATIONAL SYMPOSIUM ON UBIQUITOUS NETWORKING, UNET 2017, HELD IN CASABLANCA, MOROCCO, IN MAY 2017. THE 56 FULL PAPERS PRESENTED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED FROM 127 SUBMISSIONS. THEY WERE ORGANIZED IN TOPICAL SECTIONS NAMED: CONTEXT-AWARENESS AND AUTONOMY PARADIGMS; MOBILE EDGE NETWORKING AND VIRTUALIZATION; UBIQUITOUS INTERNET OF THINGS: EMERGING TECHNOLOGIES AND BREAKTHROUGHS; AND ENABLERS, CHALLENGES AND APPLICATIONS.

MASTERING PYTHON NETWORKING - ERIC CHOU 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 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.

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.

PYTHON NETWORK PROGRAMMING COOKBOOK - PRADEEBAN KATHIRAVELU 2017-08-09

DISCOVER PRACTICAL SOLUTIONS FOR A WIDE RANGE OF REAL-WORLD NETWORK PROGRAMMING TASKS ABOUT THIS BOOK SOLVE REAL-WORLD TASKS IN THE AREA OF NETWORK PROGRAMMING, SYSTEM/NETWORKING ADMINISTRATION, NETWORK MONITORING, AND MORE. FAMILIARIZE YOURSELF WITH THE FUNDAMENTALS AND FUNCTIONALITIES OF SDN IMPROVE YOUR SKILLS TO BECOME THE NEXT-GEN NETWORK ENGINEER BY LEARNING THE VARIOUS FACETS OF PYTHON PROGRAMMING WHO THIS BOOK IS FOR THIS BOOK IS FOR NETWORK ENGINEERS, SYSTEM/NETWORK ADMINISTRATORS, NETWORK PROGRAMMERS, AND EVEN WEB APPLICATION DEVELOPERS WHO WANT TO SOLVE EVERYDAY NETWORK-RELATED PROBLEMS. IF YOU ARE A NOVICE, YOU WILL DEVELOP AN UNDERSTANDING OF THE CONCEPTS AS YOU PROGRESS WITH THIS BOOK. WHAT YOU WILL LEARN DEVELOP TCP/IP NETWORKING CLIENT/SERVER APPLICATIONS ADMINISTER LOCAL MACHINES' IPv4/IPv6 NETWORK INTERFACES WRITE MULTI-PURPOSE EFFICIENT WEB CLIENTS FOR HTTP AND HTTPS PROTOCOLS PERFORM REMOTE SYSTEM ADMINISTRATION TASKS OVER TELNET AND SSH CONNECTIONS INTERACT WITH POPULAR WEBSITES VIA WEB SERVICES SUCH AS XML-RPC, SOAP, AND REST APIS MONITOR AND ANALYZE MAJOR COMMON NETWORK SECURITY VULNERABILITIES DEVELOP SOFTWARE-DEFINED NETWORKS WITH RYU, OPENDaylight, FLOODLIGHT, ONOS, AND POX CONTROLLERS EMULATE SIMPLE AND COMPLEX NETWORKS WITH MININET AND ITS EXTENSIONS FOR NETWORK AND SYSTEMS EMULATIONS LEARN TO CONFIGURE AND BUILD NETWORK SYSTEMS AND VIRTUAL NETWORK FUNCTIONS (VNF) IN HETEROGENEOUS DEPLOYMENT ENVIRONMENTS EXPLORE VARIOUS PYTHON MODULES TO PROGRAM THE INTERNET IN DETAIL PYTHON NETWORK PROGRAMMING COOKBOOK - SECOND EDITION HIGHLIGHTS THE MAJOR ASPECTS OF NETWORK PROGRAMMING IN PYTHON, STARTING FROM WRITING SIMPLE NETWORKING CLIENTS TO DEVELOPING AND DEPLOYING COMPLEX SOFTWARE-DEFINED NETWORKING (SDN) AND NETWORK FUNCTIONS VIRTUALIZATION (NFV) SYSTEMS. IT CREATES THE BUILDING BLOCKS FOR MANY PRACTICAL WEB AND NETWORKING APPLICATIONS THAT RELY ON VARIOUS NETWORKING PROTOCOLS. IT PRESENTS THE POWER AND BEAUTY OF PYTHON TO SOLVE NUMEROUS REAL-WORLD TASKS IN THE AREA OF NETWORK PROGRAMMING, NETWORK AND SYSTEM ADMINISTRATION, NETWORK MONITORING, AND WEB-APPLICATION DEVELOPMENT. IN THIS EDITION, YOU WILL ALSO BE INTRODUCED TO NETWORK MODELLING TO BUILD YOUR OWN CLOUD NETWORK. YOU WILL LEARN ABOUT THE CONCEPTS AND FUNDAMENTALS OF SDN AND THEN EXTEND YOUR NETWORK WITH MININET. NEXT, YOU'LL FIND RECIPES ON AUTHENTICATION, AUTHORIZATION, AND ACCOUNTING (AAA) AND OPEN AND PROPRIETARY SDN APPROACHES AND FRAMEWORKS. YOU WILL ALSO LEARN TO CONFIGURE THE LINUX FOUNDATION NETWORKING

ECOSYSTEM AND DEPLOY AND AUTOMATE YOUR NETWORKS WITH PYTHON IN THE CLOUD AND THE INTERNET SCALE. BY THE END OF THIS BOOK, YOU WILL BE ABLE TO ANALYZE YOUR NETWORK SECURITY VULNERABILITIES USING ADVANCED NETWORK PACKET CAPTURE AND ANALYSIS TECHNIQUES. STYLE AND APPROACH THIS BOOK FOLLOWS A PRACTICAL APPROACH AND COVERS MAJOR ASPECTS OF NETWORK PROGRAMMING IN PYTHON. IT PROVIDES HANDS-ON RECIPES COMBINED WITH SHORT AND CONCISE EXPLANATIONS ON CODE SNIPPETS. THIS BOOK WILL SERVE AS A SUPPLEMENTARY MATERIAL TO DEVELOP HANDS-ON SKILLS IN ANY ACADEMIC COURSE ON NETWORK PROGRAMMING. THIS BOOK FURTHER ELABORATES NETWORK SOFTWAREIZATION, INCLUDING SOFTWARE-DEFINED NETWORKING (SDN), NETWORK FUNCTIONS VIRTUALIZATION (NFV), AND ORCHESTRATION. WE LEARN TO CONFIGURE AND DEPLOY ENTERPRISE NETWORK PLATFORMS, DEVELOP APPLICATIONS ON TOP OF THEM WITH PYTHON.

CISCO ACI: ZERO TO HERO - JAN JANOVIC 2022-12-27

IT DOESN'T MATTER IF YOU ARE COMPLETELY NEW TO CISCO ACI OR YOU ALREADY HAVE SOME EXPERIENCE WITH THE TECHNOLOGY, THIS BOOK WILL GUIDE YOU THROUGH THE WHOLE IMPLEMENTATION LIFECYCLE AND PROVIDE YOU WITH A COMPREHENSIVE TOOLSET TO BECOME CONFIDENT IN ANY ACI-RELATED TASK. IN THE BEGINNING, IT'S VERY IMPORTANT TO BUILD STRONG FUNDAMENTAL KNOWLEDGE ABOUT CISCO ACI COMPONENTS. WE'LL GO THROUGH UNDERLAY NETWORKING BASED ON NEXUS 9000 SWITCHES AND DESCRIBE THE APIC CONTROLLER CLUSTER ACTING AS THE MANAGEMENT PLANE OF ACI. BY BUILDING ACCESS POLICIES, YOU'LL SEE HOW TO OPTIMALLY CONNECT SERVERS, STORAGE, ROUTERS, SWITCHES, OR L4-L7 SERVICE DEVICES TO ACI. THEN WE'LL PROPERLY DESIGN AND IMPLEMENT LOGICAL APPLICATION POLICIES. YOU WILL UNDERSTAND ALL THE FABRIC FORWARDING BEHAVIOR WHEN USING DIFFERENT ACI SETTINGS AND ARCHITECTURES WHILE GETTING A TOOLSET ON HOW TO VERIFY AND TROUBLESHOOT EVENTUAL PROBLEMS. THIS BOOK ALSO COVERS EXTERNAL L2 AND L3 CONNECTIVITY IN ACI, MORE ADVANCED FEATURES LIKE INTEGRATION WITH VIRTUALIZATION HYPERVERSORS AND KUBERNETES, SERVICE CHAINING OF L4-L7 DEVICES USING SERVICE GRAPHS, OR PRACTICAL APPROACH TO USING REST API AUTOMATION BASED ON PYTHON AND ANSIBLE/TERRAFORM. CISCO ACI: ZERO TO HERO CAN ADDITIONALLY BE USED AS A VALUABLE SOURCE OF THEORETICAL AND PRACTICAL KNOWLEDGE FOR ALL CANDIDATES PREPARING FOR CCIE DC v3.0 WRITTEN OR LAB EXAMS. WHAT YOU'LL LEARN UNDERSTAND NETWORK EVOLUTION AND CISCO ACI COMPONENTS UNDERLAY ACI NETWORKING BASED ON NEXUS 9000 SWITCHES, APIC CONTROLLERS, AND APPLICATION POLICY MODEL INTEGRATE ACI WITH VIRTUALIZATION HYPERVERSORS AND KUBERNETES DYNAMICALLY AND SEAMLESSLY INCLUDE L4-L7 SERVICE DEVICES IN COMMUNICATION BETWEEN ACI ENDPOINTS BUILD ACI ANYWHERE: ACI MULTI-TIER, STRETCHED FABRIC, MULTI-POD, MULTI-SITE, AND REMOTE LEAF UTILIZE ACI REST API WITH PYTHON, RELATED COBRA SDK, ANSIBLE OR TERRAFORM, TO DEVELOP AUTOMATION AND SCRIPTS ON TOP OF THE ACI PLATFORM WHO THIS BOOK IS FOR NETWORK ENGINEERS, ARCHITECTS, NETWORK DEVELOPERS, ADMINISTRATORS OR NOC

TECHNICIANS.

PYTHON FOR UNIX AND LINUX SYSTEM ADMINISTRATION - NOAH GIFT 2008-08-22
PYTHON IS AN IDEAL LANGUAGE FOR SOLVING PROBLEMS, ESPECIALLY IN LINUX AND UNIX NETWORKS. WITH THIS PRAGMATIC BOOK, ADMINISTRATORS CAN REVIEW VARIOUS TASKS THAT OFTEN OCCUR IN THE MANAGEMENT OF THESE SYSTEMS, AND LEARN HOW PYTHON CAN PROVIDE A MORE EFFICIENT AND LESS PAINFUL WAY TO HANDLE THEM. EACH CHAPTER IN PYTHON FOR UNIX AND LINUX SYSTEM ADMINISTRATION PRESENTS A PARTICULAR ADMINISTRATIVE ISSUE, SUCH AS CONCURRENCY OR DATA BACKUP, AND PRESENTS PYTHON SOLUTIONS THROUGH HANDS-ON EXAMPLES. ONCE YOU FINISH THIS BOOK, YOU'LL BE ABLE TO DEVELOP YOUR OWN SET OF COMMAND-LINE UTILITIES WITH PYTHON TO TACKLE A WIDE RANGE OF PROBLEMS. DISCOVER HOW THIS LANGUAGE CAN HELP YOU: READ TEXT FILES AND EXTRACT INFORMATION RUN TASKS CONCURRENTLY USING THE THREADING AND FORKING OPTIONS GET INFORMATION FROM ONE PROCESS TO ANOTHER USING NETWORK FACILITIES CREATE CLICKABLE GUIs TO HANDLE LARGE AND COMPLEX UTILITIES MONITOR LARGE CLUSTERS OF MACHINES BY INTERACTING WITH SNMP PROGRAMMATICALLY MASTER THE IPYTHON INTERACTIVE PYTHON SHELL TO REPLACE OR AUGMENT BASH, KORN, OR Z-SHELL INTEGRATE CLOUD COMPUTING INTO YOUR INFRASTRUCTURE, AND LEARN TO WRITE A GOOGLE APP ENGINE APPLICATION SOLVE UNIQUE DATA BACKUP CHALLENGES WITH CUSTOMIZED SCRIPTS INTERACT WITH MYSQL, SQLITE, ORACLE, POSTGRES, DJANGO ORM, AND SQLALCHEMY WITH THIS BOOK, YOU'LL LEARN HOW TO PACKAGE AND DEPLOY YOUR PYTHON APPLICATIONS AND LIBRARIES, AND WRITE CODE THAT RUNS EQUALLY WELL ON MULTIPLE UNIX PLATFORMS. YOU'LL ALSO LEARN ABOUT SEVERAL PYTHON-RELATED TECHNOLOGIES THAT WILL MAKE YOUR LIFE MUCH EASIER.

PRACTICAL NETWORK AUTOMATION - ABHISHEK RATAN 2017-11-16

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.

LEARNING PYTHON - MARK LUTZ 2009-10-06

GOOGLE AND YOUTUBE USE PYTHON BECAUSE IT'S HIGHLY ADAPTABLE, EASY TO MAINTAIN, AND ALLOWS FOR RAPID DEVELOPMENT. IF YOU WANT TO WRITE HIGH-QUALITY, EFFICIENT CODE THAT'S EASILY INTEGRATED WITH OTHER LANGUAGES AND TOOLS, THIS HANDS-ON BOOK WILL HELP YOU BE PRODUCTIVE WITH PYTHON QUICKLY -- WHETHER YOU'RE NEW TO PROGRAMMING OR JUST NEW TO PYTHON. IT'S AN EASY-TO-FOLLOW SELF-PACED TUTORIAL, BASED ON AUTHOR AND PYTHON EXPERT MARK LUTZ'S POPULAR TRAINING COURSE. EACH CHAPTER CONTAINS A STAND-ALONE LESSON ON A KEY COMPONENT OF THE LANGUAGE, AND INCLUDES A UNIQUE TEST YOUR KNOWLEDGE SECTION WITH PRACTICAL EXERCISES AND QUIZZES, SO YOU CAN PRACTICE NEW SKILLS AND TEST YOUR UNDERSTANDING AS YOU GO. YOU'LL FIND LOTS OF ANNOTATED EXAMPLES AND ILLUSTRATIONS TO HELP YOU GET STARTED WITH PYTHON 3.0. LEARN ABOUT PYTHON'S MAJOR BUILT-IN OBJECT TYPES, SUCH AS NUMBERS, LISTS, AND DICTIONARIES CREATE AND PROCESS OBJECTS USING PYTHON STATEMENTS, AND LEARN PYTHON'S GENERAL SYNTAX MODEL STRUCTURE AND REUSE CODE USING FUNCTIONS, PYTHON'S BASIC PROCEDURAL TOOL LEARN ABOUT PYTHON MODULES: PACKAGES OF STATEMENTS, FUNCTIONS, AND OTHER TOOLS, ORGANIZED INTO LARGER COMPONENTS DISCOVER PYTHON'S OBJECT-ORIENTED PROGRAMMING TOOL FOR STRUCTURING CODE LEARN ABOUT THE EXCEPTION-HANDLING MODEL, AND DEVELOPMENT TOOLS FOR WRITING LARGER PROGRAMS EXPLORE ADVANCED PYTHON TOOLS INCLUDING DECORATORS, DESCRIPTORS, METACLASSES, AND UNICODE PROCESSING

CCNA DATA CENTER DCICT 200-155 OFFICIAL CERT GUIDE - NAVAI SHAMSEE 2017-02-09

CCNA DATA CENTER DCICT 200-155 OFFICIAL CERT GUIDE FROM CISCO PRESS ENABLES YOU TO SUCCEED ON THE EXAM THE FIRST TIME AND IS THE ONLY SELF-STUDY RESOURCE APPROVED BY CISCO. A TEAM OF LEADING CISCO DATA CENTER EXPERTS SHARES PREPARATION HINTS AND TEST-TAKING TIPS, HELPING YOU IDENTIFY AREAS OF WEAKNESS AND IMPROVE BOTH YOUR CONCEPTUAL KNOWLEDGE AND HANDS-ON SKILLS. THIS IS THE eBook

EDITION OF THE CCNA DATA CENTER DCICT 200-155 OFFICIAL CERT GUIDE. THIS eBook DOES NOT INCLUDE THE ACCESS CODE FOR THE PRACTICE EXAM THAT COMES WITH THE PRINT EDITION. THIS COMPLETE, OFFICIAL STUDY PACKAGE INCLUDES A TEST-PREPARATION ROUTINE PROVEN TO HELP YOU PASS THE EXAM "DO I KNOW THIS ALREADY?" QUIZZES, WHICH ENABLE YOU TO DECIDE HOW MUCH TIME YOU NEED TO SPEND ON EACH SECTION PART-ENDING EXERCISES, WHICH HELP YOU DRILL ON KEY CONCEPTS YOU MUST KNOW THOROUGHLY STUDY PLAN SUGGESTIONS AND TEMPLATES TO HELP YOU ORGANIZE AND OPTIMIZE YOUR STUDY TIME A FINAL PREPARATION CHAPTER THAT GUIDES YOU THROUGH TOOLS AND RESOURCES TO HELP YOU CRAFT YOUR REVIEW AND TEST-TAKING STRATEGIES WELL REGARDED FOR ITS LEVEL OF DETAIL, STUDY PLANS, ASSESSMENT FEATURES, AND CHALLENGING REVIEW QUESTIONS AND EXERCISES, THIS OFFICIAL STUDY GUIDE HELPS YOU MASTER THE CONCEPTS AND TECHNIQUES THAT ENSURE YOUR EXAM SUCCESS. THE OFFICIAL STUDY GUIDE HELPS YOU MASTER TOPICS ON THE CCNA DATA CENTER DCICT 200-155 EXAM.

CCNP AND CCIE ENTERPRISE CORE ENCOR 350-401 OFFICIAL CERT GUIDE - BRADLEY EDGEWORTH 2019-12-02

TRUST THE BEST-SELLING OFFICIAL CERT GUIDE SERIES FROM CISCO PRESS TO HELP YOU LEARN, PREPARE, AND PRACTICE FOR EXAM SUCCESS. THEY ARE BUILT WITH THE OBJECTIVE OF PROVIDING ASSESSMENT, REVIEW, AND PRACTICE TO HELP ENSURE YOU ARE FULLY PREPARED FOR YOUR CERTIFICATION EXAM. * MASTER CISCO CCNP/CCIE ENCOR EXAM TOPICS * ASSESS YOUR KNOWLEDGE WITH CHAPTER-OPENING QUIZZES * REVIEW KEY CONCEPTS WITH EXAM PREPARATION TASKS THIS IS THE eBook EDITION OF THE CCNP AND CCIE ENTERPRISE CORE ENCOR 350-401 OFFICIAL CERT GUIDE. THIS eBook DOES NOT INCLUDE ACCESS TO THE PEARSON TEST PREP PRACTICE EXAMS THAT COMES WITH THE PRINT EDITION. CCNP AND CCIE ENTERPRISE CORE ENCOR 350-401 OFFICIAL CERT GUIDE PRESENTS YOU WITH AN ORGANIZED TEST PREPARATION ROUTINE THROUGH THE USE OF PROVEN SERIES ELEMENTS AND TECHNIQUES. "DO I KNOW THIS ALREADY?" QUIZZES OPEN EACH CHAPTER AND ENABLE YOU TO DECIDE HOW MUCH TIME YOU NEED TO SPEND ON EACH SECTION. EXAM TOPIC LISTS MAKE REFERENCING EASY. CHAPTER-ENDING EXAM PREPARATION TASKS HELP YOU DRILL ON KEY CONCEPTS YOU MUST KNOW THOROUGHLY. CCNP AND CCIE ENTERPRISE CORE ENCOR 350-401 OFFICIAL CERT GUIDE FOCUSES SPECIFICALLY ON THE OBJECTIVES FOR THE CISCO CCNP/CCIE ENCOR 350-401 EXAM. NETWORKING EXPERTS BRAD EDGEWORTH, RAMIRO GARZA RIOS, DAVE HUCABY, AND JASON GOOLEY SHARE PREPARATION HINTS AND TEST-TAKING TIPS, HELPING YOU IDENTIFY AREAS OF WEAKNESS AND IMPROVE BOTH YOUR CONCEPTUAL KNOWLEDGE AND HANDS-ON SKILLS. MATERIAL IS PRESENTED IN A CONCISE MANNER, FOCUSING ON INCREASING YOUR UNDERSTANDING AND RETENTION OF EXAM TOPICS. THIS COMPLETE STUDY PACKAGE INCLUDES* A TEST-PREPARATION ROUTINE PROVEN TO HELP YOU PASS THE EXAMS * DO I KNOW THIS ALREADY? QUIZZES, WHICH ENABLE YOU TO DECIDE HOW MUCH TIME YOU NEED TO SPEND ON EACH SECTION * CHAPTER-ENDING EXERCISES, WHICH HELP YOU DRILL ON KEY CONCEPTS YOU

MUST KNOW THOROUGHLY * PRACTICE EXERCISES THAT HELP YOU ENHANCE YOUR KNOWLEDGE * MORE THAN 90 MINUTES OF VIDEO MENTORING FROM THE AUTHOR * A FINAL PREPARATION CHAPTER, WHICH GUIDES YOU THROUGH TOOLS AND RESOURCES TO HELP YOU CRAFT YOUR REVIEW AND TEST-TAKING STRATEGIES * STUDY PLAN SUGGESTIONS AND TEMPLATES TO HELP YOU ORGANIZE AND OPTIMIZE YOUR STUDY TIME WELL REGARDED FOR ITS LEVEL OF DETAIL, ASSESSMENT FEATURES, COMPREHENSIVE DESIGN SCENARIOS, AND CHALLENGING REVIEW QUESTIONS AND EXERCISES, THIS OFFICIAL STUDY GUIDE HELPS YOU MASTER THE CONCEPTS AND TECHNIQUES THAT WILL ENABLE YOU TO SUCCEED ON THE EXAM THE FIRST TIME. THE OFFICIAL STUDY GUIDE HELPS YOU MASTER ALL THE TOPICS ON THE CCNP/CCIE ENCOR EXAM, INCLUDING * ENTERPRISE NETWORK ARCHITECTURE * VIRTUALIZATION * NETWORK ASSURANCE * SECURITY * AUTOMATION
CCNP AND CCIE DATA CENTER CORE DCCOR 350-601 OFFICIAL CERT GUIDE - FIRAS AHMED 2020-03-06

THIS IS THE eBook VERSION OF THE PRINT TITLE. NOTE THAT THE eBook DOES NOT PROVIDE ACCESS TO THE PRACTICE TEST SOFTWARE THAT ACCOMPANIES THE PRINT BOOK. ACCESS TO THE PERSONAL VIDEO MENTORING IS AVAILABLE THROUGH PRODUCT REGISTRATION AT CISCO PRESS; OR SEE THE INSTRUCTIONS IN THE BACK PAGES OF YOUR eBook. LEARN, PREPARE, AND PRACTICE FOR CCNP/CCIE DATA CENTER CORE DCCOR 350-601 EXAM SUCCESS WITH THIS CERT GUIDE FROM CISCO PRESS, A LEADER IN IT CERTIFICATION LEARNING AND THE ONLY SELF-STUDY RESOURCE APPROVED BY CISCO. * MASTER CCNP/CCIE DATA CENTER CORE DCCOR 350-601 EXAM TOPICS * ASSESS YOUR KNOWLEDGE WITH CHAPTER-ENDING QUIZZES * REVIEW KEY CONCEPTS WITH EXAM PREPARATION TASKS * LEARN FROM MORE THAN TWO HOURS OF VIDEO MENTORING
CCNP AND CCIE DATA CENTER CORE DCCOR 350-601 OFFICIAL CERT GUIDE IS A BEST-OF-BREED EXAM STUDY GUIDE. EXPERT AUTHORS SOMIT MALOO AND FIRAS AHMED SHARE PREPARATION HINTS AND TEST-TAKING TIPS, HELPING YOU IDENTIFY AREAS OF WEAKNESS AND IMPROVE BOTH YOUR CONCEPTUAL KNOWLEDGE AND HANDS-ON SKILLS. MATERIAL IS PRESENTED IN A CONCISE MANNER, FOCUSING ON INCREASING YOUR UNDERSTANDING AND RETENTION OF EXAM TOPICS. THE BOOK PRESENTS YOU WITH AN ORGANIZED TEST- PREPARATION ROUTINE THROUGH THE USE OF PROVEN SERIES ELEMENTS AND TECHNIQUES. EXAM TOPIC LISTS MAKE REFERENCING EASY. CHAPTER-ENDING EXAM PREPARATION TASKS HELP YOU DRILL ON KEY CONCEPTS YOU MUST KNOW THOROUGHLY. REVIEW QUESTIONS HELP YOU ASSESS YOUR KNOWLEDGE, AND A FINAL PREPARATION CHAPTER GUIDES YOU THROUGH TOOLS AND RESOURCES TO HELP YOU CRAFT YOUR FINAL STUDY PLAN. THE BOOK ALSO CONTAINS MORE THAN TWO HOURS OF PERSONAL VIDEO MENTORING FROM THE PEARSON IT CERTIFICATION COMPLETE VIDEO COURSE. GO TO THE BACK PAGES OF YOUR eBook FOR INSTRUCTIONS ON HOW TO ACCESS THE PERSONAL VIDEO MENTORING CONTENT. WELL REGARDED FOR ITS LEVEL OF DETAIL, ASSESSMENT FEATURES, AND CHALLENGING REVIEW QUESTIONS AND EXERCISES, THIS STUDY GUIDE HELPS YOU MASTER THE CONCEPTS AND TECHNIQUES THAT WILL HELP YOU SUCCEED ON THE EXAM THE FIRST TIME. THIS OFFICIAL

STUDY GUIDE HELPS YOU MASTER ALL THE TOPICS ON THE CCNP/CCIE DATA CENTER CORE DCCOR 350-601 EXAM, INCLUDING * NETWORK * COMPUTE * STORAGE NETWORK * AUTOMATION * SECURITY

PYTHON NETWORK PROGRAMMING FOR NETWORK ENGINEERS (PYTHON 3) - DAVID BOMBAL 2018

"THIS COURSE IS BASED ON PYTHON 3. YOU'LL MASTER NETWORK PROGRAMMABILITY AND NETWORK AUTOMATION USING GNS3 AND PYTHON 3. THIS COURSE WILL SHOW YOU HOW YOU CAN START PROGRAMMING CISCO NETWORKS WITHIN 20 MINUTES. THIS COURSE IS PRACTICAL; WE WILL SHOW YOU HOW YOU CAN QUICKLY AND EASILY START NETWORK PROGRAMMING BY USING GNS3, CISCO IOS, AND PYTHON. YOU WILL SEE DEMONSTRATIONS SHOWING THE CONFIGURATION OF BOTH CISCO ROUTERS AND SWITCHES IN GNS3, FOR EXAMPLE, HOW TO CONFIGURE MULTIPLE VLANS ON A MULTIPLE SWITCHES, OR HOW TO CONFIGURE OSPF ON A ROUTER AND MORE. THIS COURSE SHOWS YOU PRACTICAL EXAMPLES USING PYTHON TO PROGRAMMATICALLY CONFIGURE CISCO NETWORK DEVICES RATHER THAN JUST TALKING ABOUT IT. LEARN HOW TO AUTOMATE NETWORKS USING TELNET, SSH, PARAMIKO, NETMIKO, NAPALM. TOOLS SUCH AS NAPALM AND NETMIKO MAKE IT EASY TO CONFIGURE AND INTERACT WITH NETWORK DEVICES USING AN API SUCH AS NETCONF OR VIA SSH. DON'T REINVENT THE WHEEL: USE THE TOOLS AVAILABLE TO YOU TO QUICKLY AND EASILY AUTOMATE YOUR NETWORKS."--RESOURCE DESCRIPTION PAGE.

CISCO CCNP AND CCIE SECURITY CORE SCOR 350-701 OFFICIAL CERT GUIDE - COMPLETE PREPARATION - NEW - G SKILLS

YOU ARE ABOUT TO SEE CCNP AND CCIE SECURITY CORE SCOR 350-701 CERT GUIDE BOOK THAT TOOK MONTHS OF EXPERT PREPARATION, HARD WORK, AND INTENSIVE FEEDBACK. THAT'S WHY WE KNOW THIS BOOK WILL HELP YOU GET THAT HIGH-SCORE ON YOUR OFFICIAL EXAM. ARE YOU READY TO PASS THE CCNP SECURITY 350-701 SCOR EXAM CERTIFICATION? IMPLEMENTING AND OPERATING CISCO SECURITY CORE TECHNOLOGIES (SCOR 350-701) IS A 120-MINUTE EXAM ASSOCIATED WITH THE CCNP AND CCIE SECURITY CERTIFICATIONS. THIS BOOK TESTS A CANDIDATE'S KNOWLEDGE OF IMPLEMENTING AND OPERATING CORE SECURITY TECHNOLOGIES INCLUDING NETWORK SECURITY, CLOUD SECURITY, CONTENT SECURITY, ENDPOINT PROTECTION AND DETECTION, SECURE NETWORK ACCESS, VISIBILITY AND ENFORCEMENTS. OUR BOOK IS AN AUTHENTIC THING, IT'S SO ACCURATE AND CONTAINS THE MOST RECURRENT AND THE MOST UP-TO-DATE QUESTIONS. THE BOOK IS FULL OF PRACTICE QUESTIONS, AND CHALLENGING MATERIALS. WHO THIS BOOK IS FOR: THIS BOOK IS FOR STUDENTS (CANDIDATES) TRYING TO OBTAIN THE CCNP AND CCIE SCOR THIS BOOK HAS BEEN DESIGNED FOR ANYONE WHO WANTS TO START LEARNING SECURITY THIS BOOK IS FOR STUDENTS TRYING TO LEARN THE CCNP SECURITY ANY NETWORK OR SECURITY ENGINEER WANT TO LEARN OR POLISH THEIR SKILLS. THIS BOOK ALLOWS YOU TO SUCCEED ON THE EXAM THE FIRST TIME AND IS THE ONLY SELF-STUDY RESOURCE APPROVED BY CISCO. BEST-SELLING AUTHOR AND LEADING SECURITY ENGINEERS SHARES PREPARATION HINTS AND TEST-TAKING TIPS, HELPING YOU IDENTIFY AREAS OF

WEAKNESS AND IMPROVE BOTH YOUR CONCEPTUAL KNOWLEDGE AND HANDS-ON SKILLS. THIS PREPARATION BOOK WILL GIVE YOU FULL CONFIDENCE TO PASS THE MAIN OFFICIAL CISCO EXAM.

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 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.

AUTOMATE YOUR NETWORK: INTRODUCING THE MODERN APPROACH TO ENTERPRISE NETWORK MANAGEMENT - JOHN W. CAPOBIANCO 2019-03-09

NETWORK AUTOMATION IS ONE OF THE HOTTEST TOPICS IN INFORMATION TECHNOLOGY TODAY. THIS REVOLUTIONARY BOOK AIMS TO ILLUSTRATE THE TRANSFORMATIVE JOURNEY

TOWARDS FULL ENTERPRISE NETWORK AUTOMATION. THIS BOOK OUTLINES THE TOOLS, TECHNOLOGIES AND PROCESSES REQUIRED TO FULLY AUTOMATE AN ENTERPRISE NETWORK. AUTOMATED NETWORK CONFIGURATION MANAGEMENT IS MORE THAN CONVERTING YOUR NETWORK CONFIGURATIONS TO CODE. THE BENEFITS OF SOURCE CONTROL, VERSION CONTROL, AUTOMATED BUILDS, AUTOMATED TESTING AND AUTOMATED RELEASES ARE REALIZED IN THE WORLD OF NETWORKING USING WELL ESTABLISHED SOFTWARE DEVELOPMENT PRACTICES. THE NEXT-GENERATION NETWORK ADMINISTRATIVE TOOLKIT IS INTRODUCED INCLUDING MICROSOFT TEAM FOUNDATION SERVER, MICROSOFT VISUAL STUDIO CODE, GIT, LINUX, AND THE ANSIBLE FRAMEWORK. NOT ONLY WILL THESE NEW TECHNOLOGIES BE COVERED AT LENGTH, A NEW AND CONTINUOUSLY INTEGRATED / CONTINUOUSLY DELIVERED PIPELINE IS ALSO INTRODUCED. STARTING WITH SAFE, SIMPLE, NON-INTRUSIVE, NON-DISRUPTIVE INFORMATION GATHERING ORGANIZATIONS CAN EASE INTO NETWORK AUTOMATION WHILE BUILDING A DYNAMIC LIBRARY OF DOCUMENTATION AND ON-DEMAND UTILITIES FOR NETWORK OPERATIONS. ONCE COMFORTABLE WITH THE NEW ECOSYSTEM, ADMINISTRATORS CAN BEGIN MAKING FULLY AUTOMATED, ORCHESTRATED, AND TACTICAL CHANGES TO THE NETWORK. THE NEXT EVOLUTIONARY LEAP OCCURS WHEN FULLY AUTOMATED NETWORK CONFIGURATION MANAGEMENT IS IMPLEMENTED. IMPORTANT INFORMATION FROM THE NETWORK RUNNING-CONFIGURATIONS IS ABSTRACTED INTO DATA MODELS IN A HUMAN READABLE FORMAT. DEVICE CONFIGURATIONS ARE DYNAMICALLY TEMPLATED CREATING A SCALABLE, INTENT-BASED, SOURCE OF TRUTH. MUCH LIKE IN THE WORLD OF SOFTWARE DEVELOPMENT, FULL AUTOMATION OF THE NETWORK USING A CI/CD PIPELINE CAN BE REALIZED. AUTOMATED BUILDS, AUTOMATED TESTING AND AUTOMATED SCHEDULED RELEASES ARE ORCHESTRATED AND EXECUTED WHEN CHANGES ARE APPROVED AND CHECKED INTO THE CENTRAL REPOSITORY. THIS BOOK IS UNLIKE ANY ON THE MARKET TODAY AS IT INCLUDES MULTIPLE ANSIBLE PLAYBOOKS, SAMPLE YAML DATA MODELS AND JINJA2 TEMPLATES FOR NETWORK DEVICES, AND A WHOLE NEW METHODOLOGY AND APPROACH TO ENTERPRISE NETWORK ADMINISTRATION AND MANAGEMENT. THE CLI NO LONGER CUTS IT. READERS SHOULD TAKE AWAY FROM THIS BOOK A NEW APPROACH TO ENTERPRISE NETWORK MANAGEMENT AND ADMINISTRATION AS WELL AS THE FULL KNOWLEDGE AND UNDERSTANDING OF HOW TO USE TFS, VS CODE, GIT, AND ANSIBLE TO CREATE AN AUTOMATION ECOSYSTEM. READERS SHOULD HAVE SOME BASIC UNDERSTANDING OF MODERN NETWORK DESIGN, OPERATION, AND CONFIGURATION. NO PRIOR PROGRAMMING OR SOFTWARE DEVELOPMENT EXPERIENCE IS REQUIRED. JOHN CAPOBIANCO HAS OVER 20 YEARS OF IT EXPERIENCE AND IS CURRENTLY A TECHNICAL ADVISOR FOR THE CANADIAN HOUSE OF COMMONS. A GRADUATE OF ST. LAWRENCE COLLEGE'S COMPUTER PROGRAMMER ANALYST PROGRAM, JOHN IS ALSO A FORMER PROFESSOR AT ST. LAWRENCE COLLEGE IN THE COMPUTER NETWORKING AND TECHNICAL SUPPORT (CNTS) PROGRAM. JOHN HAS ACHIEVED CCNP, CCDP, CCNA: DATA CENTER, MCITP: EA/SA, COMPTIA A+ / NETWORK+, AND ITIL FOUNDATION CERTIFICATIONS. HAVING DISCOVERED A NEW WAY TO INTERFACE WITH THE NETWORK JOHN FELT COMPELLED TO SHARE THIS NEW METHODOLOGY IN HOPES OF

REVOLUTIONIZING THE INDUSTRY AND BRINGING NETWORK AUTOMATION TO THE WORLD.

MASTERING PYTHON NETWORKING - ERIC CHOU 2017-06-28

BECOME AN EXPERT IN IMPLEMENTING ADVANCED, NETWORK-RELATED TASKS WITH PYTHON. ABOUT THIS BOOK 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 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. 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. IN DETAIL THIS 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, POW-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. STYLE AND APPROACH AN EASY-TO-FOLLOW GUIDE PACKED WITH HANDS-ON EXAMPLES OF USING PYTHON FOR NETWORK DEVICE AUTOMATION, DEVOPS, AND SDN.

CCNA ICND2 STUDY GUIDE - TODD LAMMLE 2016-09-15

CISCO HAS ANNOUNCED BIG CHANGES TO ITS CERTIFICATION PROGRAM. AS OF FEBRUARY 24, 2020, ALL CURRENT CERTIFICATIONS WILL BE RETIRED, AND CISCO WILL BEGIN OFFERING NEW CERTIFICATION PROGRAMS. THE GOOD NEWS IS IF YOU'RE WORKING TOWARD ANY CURRENT

CCNA CERTIFICATION, KEEP GOING. YOU HAVE UNTIL FEBRUARY 24, 2020 TO COMPLETE YOUR CURRENT CCNA. IF YOU ALREADY HAVE CCENT/ICND1 CERTIFICATION AND WOULD LIKE TO EARN CCNA, YOU HAVE UNTIL FEBRUARY 23, 2020 TO COMPLETE YOUR CCNA CERTIFICATION IN THE CURRENT PROGRAM. LIKewise, IF YOU'RE THINKING OF COMPLETING THE CURRENT CCENT/ICND1, ICND2, OR CCNA ROUTING AND SWITCHING CERTIFICATION, YOU CAN STILL COMPLETE THEM BETWEEN NOW AND FEBRUARY 23, 2020. REAL-WORLD EXPERT PREPARATION FOR THE ICND2, WITH HANDS-ON LABS THE CCNA ICND2 STUDY GUIDE, 3RD EDITION COVERS 100 PERCENT OF ALL EXAM 200-105 OBJECTIVES. LEADING NETWORKING AUTHORITY TODD LAMMLE PROVIDES DETAILED EXPLANATIONS AND CLEAR INSTRUCTION ON IP DATA NETWORKS, SWITCHING AND ROUTING TECHNOLOGIES, IPV4 AND IPV6 ADDRESSING, TROUBLESHOOTING, SECURITY, AND MORE. DOZENS OF HANDS-ON LABS HELP YOU GAIN EXPERIENCE WITH IMPORTANT TASKS, AND EXPERT EXAMPLES AND INSIGHTS DRAWN FROM THIRTY YEARS OF NETWORKING BRING REAL-WORLD PERSPECTIVE TO ESSENTIAL CCNA SKILLS. THE SYBEX INTERACTIVE ONLINE LEARNING ENVIRONMENT PROVIDES HUNDREDS OF SAMPLE QUESTIONS, A GLOSSARY OF KEY TERMS, AND OVER 100 ELECTRONIC FLASHCARDS TO STREAMLINE YOUR STUDY TIME AND EXPAND YOUR RESOURCES; THE PRE-ASSESSMENT TEST SHOWS YOU WHERE TO FOCUS YOUR EFFORTS, AND THE PRACTICE EXAM ALLOWS YOU TEST YOUR LEVEL OF UNDERSTANDING WHILE THERE'S STILL TIME TO IMPROVE. THE ICND2 IS THE FINAL EXAM FOR THE CCNA CERTIFICATION. WITH 80 PERCENT OF THE INTERNET'S ROUTERS BEING CISCO TECHNOLOGY, THIS EXAM IS CRITICAL FOR A CAREER IN NETWORKING. THIS GUIDE EXPLAINS EVERYTHING YOU NEED TO BE CONFIDENT ON EXAM DAY. STUDY 100% OF THE EXAM OBJECTIVES GET ESSENTIAL HANDS-ON EXPERIENCE ACCESS SAMPLE QUESTIONS AND FLASHCARDS TEST YOUR KNOWLEDGE WITH A BONUS PRACTICE EXAM BE FULLY PREPARED FOR THE CCNA ICND2 WITH THE SYBEX ADVANTAGE.

DevNet Associate DEVASC 200-901 OFFICIAL CERTIFICATION GUIDE - CHRIS JACKSON 2020-05-25

DevNet Associate DEVASC 200-901 OFFICIAL CERTIFICATION GUIDE IS CISCO'S OFFICIAL, COMPREHENSIVE SELF-STUDY RESOURCE FOR CISCO'S DEVASC 200-901 EXAM: YOUR PATHWAY TO THE DevNet Associate CERTIFICATION DEMONSTRATING YOUR KNOWLEDGE OF APPLICATION DEVELOPMENT AND AUTOMATION ON CISCO PLATFORMS. WRITTEN BY CISCO EXPERTS BASED ON CISCO'S OWN INTERNAL TRAINING, IT CLEARLY EXPLAINS THE VALUE OF EACH TECHNIQUE, PRESENTS REALISTIC USE CASES, INTRODUCES SOLUTION COMPONENTS, ILLUMINATES THEIR INNER WORKINGS, AND SHOWS HOW TO EXECUTE ON WHAT YOU'VE LEARNED IN PRACTICE. DESIGNED FOR ALL CISCO DevNet Associate CANDIDATES, IT COVERS EVERY DEVASC 200-901 OBJECTIVE CONCISELY AND LOGICALLY, WITH EXTENSIVE TEACHING FEATURES DESIGNED TO PROMOTE RETENTION AND UNDERSTANDING. YOU'LL FIND: PRE-CHAPTER QUIZZES TO ASSESS KNOWLEDGE UPFRONT AND FOCUS YOUR STUDY MORE EFFICIENTLY FOUNDATION TOPICS SECTIONS THAT EXPLAIN CONCEPTS AND CONFIGURATIONS, AND LINK THEORY TO PRACTICE KEY TOPICS SECTIONS CALLING ATTENTION TO EVERY FIGURE, TABLE, AND LIST YOU MUST KNOW EXAM

PREPARATION SECTIONS WITH ADDITIONAL CHAPTER REVIEW FEATURES FINAL PREPARATION CHAPTER PROVIDING TOOLS AND A COMPLETE FINAL STUDY PLAN A CUSTOMIZABLE PRACTICE TEST LIBRARY THIS GUIDE OFFERS COMPREHENSIVE, UP-TO-DATE COVERAGE OF ALL DEVASC 200-901 TOPICS RELATED TO: SOFTWARE DEVELOPMENT AND DESIGN UNDERSTANDING AND USING APIS CISCO PLATFORMS AND DEVELOPMENT APPLICATION DEPLOYMENT AND SECURITY INFRASTRUCTURE AND AUTOMATION NETWORK FUNDAMENTALS *ADVANCES IN COMPUTING, INFORMATICS, NETWORKING AND CYBERSECURITY* - PETROS NICOPOLITIDIS 2022-03-03

THIS BOOK PRESENTS NEW RESEARCH CONTRIBUTIONS IN THE ABOVE-MENTIONED FIELDS. INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT) HAVE AN INTEGRAL ROLE IN TODAY'S SOCIETY. FOUR MAJOR DRIVING PILLARS IN THE FIELD ARE COMPUTING, WHICH NOWADAYS ENABLES DATA PROCESSING IN UNPRECEDENTED SPEEDS, INFORMATICS, WHICH DERIVES INFORMATION STEMMING FOR PROCESSED DATA TO FEED RELEVANT APPLICATIONS, NETWORKING, WHICH INTERCONNECTS THE VARIOUS COMPUTING INFRASTRUCTURES AND CYBERSECURITY FOR ADDRESSING THE GROWING CONCERN FOR SECURE AND LAWFUL USE OF THE ICT INFRASTRUCTURE AND SERVICES. ITS INTENDED READERSHIP COVERS SENIOR UNDERGRADUATE AND GRADUATE STUDENTS IN COMPUTER SCIENCE AND ENGINEERING AND ELECTRICAL ENGINEERING, AS WELL AS RESEARCHERS, SCIENTISTS, ENGINEERS, ICT MANAGERS, WORKING IN THE RELEVANT FIELDS AND INDUSTRIES.

THE POLICY DRIVEN DATA CENTER WITH ACI - LUCIEN AVRAMOV 2014-12-21
USE POLICIES AND CISCO® ACI TO MAKE DATA CENTERS MORE FLEXIBLE AND CONFIGURABLE--AND DELIVER FAR MORE BUSINESS VALUE USING THE POLICY DRIVEN DATA CENTER APPROACH, NETWORKING PROFESSIONALS CAN ACCELERATE AND SIMPLIFY CHANGES TO THE DATA CENTER, CONSTRUCTION OF CLOUD INFRASTRUCTURE, AND DELIVERY OF NEW APPLICATIONS. AS YOU IMPROVE DATA CENTER FLEXIBILITY, AGILITY, AND PORTABILITY, YOU CAN DELIVER FAR MORE BUSINESS VALUE, FAR MORE RAPIDLY. IN THIS GUIDE, CISCO DATA CENTER EXPERTS LUCIEN AVRAMOV AND MAURIZIO PORTOLANI SHOW HOW TO ACHIEVE ALL THESE BENEFITS WITH CISCO APPLICATION CENTRIC INFRASTRUCTURE (ACI) AND TECHNOLOGIES SUCH AS PYTHON, REST, AND OPENSTACK. THE AUTHORS EXPLAIN THE ADVANTAGES, ARCHITECTURE, THEORY, CONCEPTS, AND METHODOLOGY OF THE POLICY DRIVEN DATA CENTER. NEXT, THEY DEMONSTRATE THE USE OF PYTHON SCRIPTS AND REST TO AUTOMATE NETWORK MANAGEMENT AND SIMPLIFY CUSTOMIZATION IN ACI ENVIRONMENTS. DRAWING ON EXPERIENCE DEPLOYING ACI IN ENTERPRISE DATA CENTERS, THE AUTHORS REVIEW DESIGN CONSIDERATIONS AND IMPLEMENTATION METHODOLOGIES. YOU WILL FIND DESIGN CONSIDERATIONS FOR VIRTUALIZED DATACENTERS, HIGH PERFORMANCE COMPUTING, ULTRA-LOW LATENCY ENVIRONMENTS, AND LARGE-SCALE DATA CENTERS. THE AUTHORS WALK THROUGH BUILDING MULTI-HYPERVISOR AND BARE-METAL INFRASTRUCTURES, DEMONSTRATE SERVICE INTEGRATION, AND INTRODUCE ADVANCED TELEMETRY CAPABILITIES FOR TROUBLESHOOTING. LEVERAGE THE ARCHITECTURAL AND MANAGEMENT INNOVATIONS BUILT INTO CISCO® APPLICATION CENTRIC INFRASTRUCTURE (ACI) UNDERSTAND THE

POLICY DRIVEN DATA CENTER MODEL USE POLICIES TO MEET THE NETWORK PERFORMANCE AND DESIGN REQUIREMENTS OF MODERN DATA CENTER AND CLOUD ENVIRONMENTS QUICKLY MAP HARDWARE AND SOFTWARE CAPABILITIES TO APPLICATION DEPLOYMENTS USING GRAPHICAL TOOLS--OR PROGRAMMATICALLY, VIA THE CISCO APIC API INCREASE APPLICATION VELOCITY: REDUCE THE TIME NEEDED TO MOVE APPLICATIONS INTO PRODUCTION DEFINE WORKLOAD CONNECTIVITY INSTEAD OF (OR ALONG WITH) SUBNETS, VLAN STITCHING, AND ACLs USE PYTHON SCRIPTS AND REST TO AUTOMATE POLICY CHANGES, PARSING, CUSTOMIZATION, AND SELF-SERVICE DESIGN POLICY-DRIVEN DATA CENTERS THAT SUPPORT HYPERVISORS INTEGRATE OPENSTACK VIA THE CISCO ACI APIC OPENSTACK DRIVER ARCHITECTURE MASTER ALL FACETS OF BUILDING AND OPERATING MULTIPURPOSE CLOUD ARCHITECTURES WITH ACI CONFIGURE ACI FABRIC TOPOLOGY AS AN INFRASTRUCTURE OR TENANT ADMINISTRATOR INSERT LAYER 4-LAYER 7 FUNCTIONS USING SERVICE GRAPHS LEVERAGE CENTRALIZED TELEMETRY TO OPTIMIZE PERFORMANCE; FIND AND RESOLVE PROBLEMS UNDERSTAND AND FAMILIARIZE YOURSELF WITH THE PARADIGMS OF PROGRAMMABLE POLICY DRIVEN NETWORKS

NETWORK PROGRAMMABILITY AND AUTOMATION - JASON EDELMAN 2018-02-02
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

PYTHON NETWORK PROGRAMMING - ABHISHEK RATAN 2019-01-31
POWER UP YOUR NETWORK APPLICATIONS WITH PYTHON PROGRAMMING KEY FEATURES MASTER PYTHON SKILLS TO DEVELOP POWERFUL NETWORK APPLICATIONS GRASP THE FUNDAMENTALS AND FUNCTIONALITIES OF SDN DESIGN MULTI-THREADED, EVENT-DRIVEN

ARCHITECTURES FOR ECHO AND CHAT SERVERS

BOOK DESCRIPTION THIS LEARNING PATH HIGHLIGHTS MAJOR ASPECTS OF PYTHON NETWORK PROGRAMMING SUCH AS WRITING SIMPLE NETWORKING CLIENTS, CREATING AND DEPLOYING SDN AND NFV SYSTEMS, AND EXTENDING YOUR NETWORK WITH MININET. YOU'LL ALSO LEARN HOW TO AUTOMATE LEGACY AND THE LATEST NETWORK DEVICES. AS YOU PROGRESS THROUGH THE CHAPTERS, YOU'LL USE PYTHON FOR DEVOPS AND OPEN SOURCE TOOLS TO TEST, SECURE, AND ANALYZE YOUR NETWORK. TOWARD THE END, YOU'LL DEVELOP CLIENT-SIDE APPLICATIONS, SUCH AS WEB API CLIENTS, EMAIL CLIENTS, SSH, AND FTP, USING SOCKET PROGRAMMING. BY THE END OF THIS LEARNING PATH, YOU WILL HAVE LEARNED HOW TO ANALYZE A NETWORK'S SECURITY VULNERABILITIES USING ADVANCED NETWORK PACKET CAPTURE AND ANALYSIS TECHNIQUES. THIS LEARNING PATH INCLUDES CONTENT FROM THE FOLLOWING PACKT PRODUCTS:

PRACTICAL NETWORK AUTOMATION BY ABHISHEK RATAN MASTERING PYTHON NETWORKING BY ERIC CHOU PYTHON NETWORK PROGRAMMING COOKBOOK, SECOND EDITION BY PRADEEBAN KATHIRAVELU, DR. M. O. FARUQUE SARKER

WHAT YOU WILL LEARN CREATE SOCKET-BASED NETWORKS WITH ASYNCHRONOUS MODELS DEVELOP CLIENT APPS FOR WEB APIS, INCLUDING S3 AMAZON AND TWITTER TALK TO EMAIL AND REMOTE NETWORK SERVERS WITH DIFFERENT PROTOCOLS INTEGRATE PYTHON WITH CISCO, JUNIPER, AND ARISTA EAPI FOR AUTOMATION USE TELNET AND SSH CONNECTIONS FOR REMOTE SYSTEM MONITORING INTERACT WITH WEBSITES VIA XML-RPC, SOAP, AND REST APIS BUILD NETWORKS WITH RYU, OPENDAYLIGHT, FLOODLIGHT, ONOS, AND POX CONFIGURE VIRTUAL NETWORKS IN DIFFERENT DEPLOYMENT ENVIRONMENTS

WHO THIS BOOK IS FOR IF YOU ARE A PYTHON DEVELOPER OR A SYSTEM ADMINISTRATOR WHO WANTS TO START NETWORK PROGRAMMING, THIS LEARNING PATH GETS YOU A STEP CLOSER TO YOUR GOAL. IT PROFESSIONALS AND DEVOPS ENGINEERS WHO ARE NEW TO MANAGING NETWORK DEVICES OR THOSE WITH MINIMAL EXPERIENCE LOOKING TO EXPAND THEIR KNOWLEDGE AND SKILLS IN PYTHON WILL ALSO FIND THIS LEARNING PATH USEFUL. ALTHOUGH PRIOR KNOWLEDGE OF NETWORKING IS NOT REQUIRED, SOME EXPERIENCE IN PYTHON PROGRAMMING WILL BE HELPFUL FOR A BETTER UNDERSTANDING OF THE CONCEPTS IN THE LEARNING PATH.

CCNA ROUTING AND SWITCHING COMPLETE STUDY GUIDE - TODD LAMMLE 2016-10-18

CISCO HAS ANNOUNCED BIG CHANGES TO ITS CERTIFICATION PROGRAM. AS OF FEBRUARY 24, 2020, ALL CURRENT CERTIFICATIONS WILL BE RETIRED, AND CISCO WILL BEGIN OFFERING NEW CERTIFICATION PROGRAMS. THE GOOD NEWS IS IF YOU'RE WORKING TOWARD ANY CURRENT CCNA CERTIFICATION, KEEP GOING. YOU HAVE UNTIL FEBRUARY 24, 2020 TO COMPLETE YOUR CURRENT CCNA. IF YOU ALREADY HAVE CCENT/ICND1 CERTIFICATION AND WOULD LIKE TO EARN CCNA, YOU HAVE UNTIL FEBRUARY 23, 2020 TO COMPLETE YOUR CCNA CERTIFICATION IN THE CURRENT PROGRAM. LIKewise, IF YOU'RE THINKING OF COMPLETING THE CURRENT CCENT/ICND1, ICND2, OR CCNA ROUTING AND SWITCHING CERTIFICATION, YOU CAN STILL COMPLETE THEM BETWEEN NOW AND FEBRUARY 23, 2020. NETWORKING'S LEADING AUTHORITY JOINS SYBEX FOR THE ULTIMATE CCNA PREP GUIDE CCNA ROUTING AND SWITCHING COMPLETE STUDY GUIDE, 2ND EDITION IS YOUR COMPREHENSIVE REVIEW

FOR THE CCNA EXAMS. WRITTEN BY THE LEADING AUTHORITY ON NETWORKING TECHNOLOGY, THIS GUIDE COVERS 100% OF ALL OBJECTIVES FOR THE LATEST ICND1, ICND2, AND CCNA COMPOSITE EXAMS. HANDS-ON LABS HELP YOU GAIN EXPERIENCE IN CRITICAL PROCEDURES AND PRACTICES. GAIN ACCESS TO THE SYBEX ONLINE LEARNING ENVIRONMENT, FEATURING A ROBUST SET OF STUDY TOOLS INCLUDING: PRACTICE QUESTIONS, FLASHCARDS, VIDEO INSTRUCTION, AND AN EXTENSIVE GLOSSARY OF TERMS TO HELP YOU BETTER PREPARE FOR EXAM DAY. THE PRE-ASSESSMENT TEST HELPS YOU PRIORITIZE YOUR STUDY TIME, AND BONUS PRACTICE EXAMS ALLOW YOU TO TEST YOUR UNDERSTANDING. THE CCNA CERTIFICATION IS ESSENTIAL TO A CAREER IN NETWORKING, AND THE EXAM CAN BE TAKEN IN TWO PARTS OR AS A COMPOSITE. WHICHEVER YOU CHOOSE, THIS BOOK IS YOUR ESSENTIAL GUIDE FOR COMPLETE REVIEW. MASTER IP DATA NETWORK OPERATION TROUBLESHOOT ISSUES AND KEEP THE NETWORK SECURE UNDERSTAND SWITCHING AND ROUTING TECHNOLOGIES WORK WITH IPV4 AND IPV6 ADDRESSING FULL COVERAGE AND EXPERT INSIGHT MAKES CCNA ROUTING AND SWITCHING COMPLETE STUDY GUIDE YOUR ULTIMATE COMPANION FOR CCNA PREP.

MASTERING PYTHON NETWORKING - ERIC CHOU 2023-01-20

GET TO GRIPS WITH THE LATEST CONTAINER EXAMPLES, PYTHON 3 FEATURES, GITLAB DEVOPS, NETWORK DATA ANALYSIS, AND CLOUD NETWORKING TO GET THE MOST OUT OF PYTHON FOR NETWORK ENGINEERING WITH THE LATEST EDITION OF THIS BESTSELLING GUIDE PURCHASE OF THE PRINT OR KINDLE BOOK INCLUDES A FREE eBook IN PDF FORMAT. KEY FEATURES EXPLORE THE POWER OF THE LATEST PYTHON LIBRARIES AND FRAMEWORKS TO TACKLE COMMON AND COMPLEX NETWORK PROBLEMS EFFICIENTLY AND EFFECTIVELY USE PYTHON AND OTHER OPEN SOURCE TOOLS FOR NETWORK DEVOPS, AUTOMATION, MANAGEMENT, AND MONITORING USE PYTHON 3 TO IMPLEMENT ADVANCED NETWORK-RELATED FEATURES

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, FOURTH EDITION, YOU'LL EMBARK ON A PYTHON-BASED JOURNEY TO TRANSITION FROM A TRADITIONAL NETWORK ENGINEER TO A NETWORK DEVELOPER READY FOR THE NEXT GENERATION OF NETWORKS. THIS NEW EDITION IS COMPLETELY REVISED AND UPDATED TO WORK WITH THE LATEST PYTHON FEATURES AND DEVOPS FRAMEWORKS. IN ADDITION TO NEW CHAPTERS ON INTRODUCING DOCKER CONTAINERS AND PYTHON 3 ASYNC IO FOR NETWORK ENGINEERS, 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 AWS AND AZURE CLOUD NETWORKING. YOU WILL USE GIT FOR CODE

MANAGEMENT, GITLAB FOR CONTINUOUS INTEGRATION, AND PYTHON-BASED TESTING TOOLS TO VERIFY YOUR NETWORK. WHAT YOU WILL LEARN USE PYTHON TO INTERACT WITH NETWORK DEVICES UNDERSTAND DOCKER AS A TOOL THAT YOU CAN USE FOR THE DEVELOPMENT AND DEPLOYMENT USE PYTHON AND VARIOUS OTHER TOOLS TO OBTAIN INFORMATION FROM THE NETWORK LEARN HOW TO USE ELK FOR NETWORK DATA ANALYSIS UTILIZE FLASK AND CONSTRUCT HIGH-LEVEL API TO INTERACT WITH IN-HOUSE APPLICATIONS DISCOVER THE NEW ASYNClO FEATURE AND ITS CONCEPTS IN PYTHON 3 EXPLORE TEST-DRIVEN DEVELOPMENT CONCEPTS AND USE PYTEST TO DRIVE CODE TEST COVERAGE UNDERSTAND HOW GITLAB CAN BE USED WITH DEVOPS PRACTICES IN NETWORKING WHO THIS BOOK IS FOR MASTERING PYTHON NETWORKING, FOURTH EDITION IS FOR NETWORK ENGINEERS, DEVELOPERS, AND SREs WHO WANT TO LEARN PYTHON FOR NETWORK AUTOMATION, PROGRAMMABILITY, MONITORING, CLOUD, AND DATA ANALYSIS. NETWORK ENGINEERS WHO WANT TO TRANSITION FROM MANUAL TO AUTOMATION-BASED NETWORKS USING THE LATEST DEVOPS TOOLS WILL ALSO GET A LOT OF USEFUL INFORMATION FROM THIS BOOK. BASIC FAMILIARITY WITH PYTHON PROGRAMMING AND NETWORKING-RELATED CONCEPTS SUCH AS TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL (TCP/IP) WILL BE HELPFUL IN GETTING THE MOST OUT OF THIS BOOK.

CCNP ENTERPRISE CERTIFICATION STUDY GUIDE: IMPLEMENTING AND OPERATING CISCO ENTERPRISE NETWORK CORE TECHNOLOGIES - BEN PIPER 2020-04-16

THE PRACTICAL AND CONCEPTUAL KNOWLEDGE YOU NEED TO ATTAIN CCNP ENTERPRISE CERTIFICATION FROM ONE OF THE MOST TRUSTED STUDY GUIDE PUBLISHERS COMES CCNP ENTERPRISE CERTIFICATION STUDY GUIDE: EXAM 350-401. THIS GUIDE HELPS YOU DEVELOP PRACTICAL KNOWLEDGE AND BEST PRACTICES FOR CRITICAL ASPECTS OF ENTERPRISE INFRASTRUCTURE SO YOU CAN GAIN YOUR CCNP ENTERPRISE CERTIFICATION. IF YOU'RE HOPING TO ATTAIN A BROADER RANGE OF SKILLS AND A SOLID UNDERSTANDING OF CISCO TECHNOLOGY, THIS GUIDE WILL ALSO PROVIDE FUNDAMENTAL CONCEPTS FOR LEARNING HOW TO IMPLEMENT AND OPERATE CISCO ENTERPRISE NETWORK CORE TECHNOLOGIES. BY FOCUSING ON REAL-WORLD SKILLS, EACH CHAPTER PREPARES YOU WITH THE KNOWLEDGE YOU NEED TO EXCEL IN YOUR CURRENT ROLE AND BEYOND. IT COVERS EMERGING AND INDUSTRY-SPECIFIC TOPICS, SUCH AS SD-WAN, NETWORK DESIGN, WIRELESS, AND AUTOMATION. THIS PRACTICAL GUIDE ALSO INCLUDES LESSONS ON: [?] AUTOMATION [?] NETWORK ASSURANCE [?] SECURITY [?] ENTERPRISE INFRASTRUCTURE [?] DUAL-STACK ARCHITECTURE [?] VIRTUALIZATION IN ADDITION TO HELPING YOU GAIN ENTERPRISE KNOWLEDGE, THIS STUDY GUIDECAN LEAD YOU TOWARD YOUR CISCO SPECIALIST CERTIFICATION. WHEN YOU PURCHASE THIS GUIDE, YOU GET ACCESS TO THE INFORMATION YOU NEED TO PREPARE YOURSELF FOR ADVANCES IN TECHNOLOGY AND NEW APPLICATIONS, AS WELL AS ONLINE STUDY TOOLS SUCH AS: [?] BONUS PRACTICE EXAMS [?] PRE-MADE FLASHCARDS [?] GLOSSARY OF KEY TERMS [?] SPECIFIC FOCUS AREAS EXPAND YOUR SKILLSET AND TAKE YOUR CAREER TO THE NEXT LEVEL WITH CCNP ENTERPRISE CERTIFICATION STUDY GUIDE.

PROGRAMMING AND AUTOMATING CISCO NETWORKS - RYAN TISCHER 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 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, CONFID, 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

CCNA ROUTING AND SWITCHING COMPLETE DELUXE STUDY GUIDE - TODD LAMMLE 2016-10-03

CISCO HAS ANNOUNCED BIG CHANGES TO ITS CERTIFICATION PROGRAM. AS OF FEBRUARY 24, 2020, ALL CURRENT CERTIFICATIONS WILL BE RETIRED, AND CISCO WILL BEGIN OFFERING NEW CERTIFICATION PROGRAMS. THE GOOD NEWS IS IF YOU'RE WORKING TOWARD ANY CURRENT CCNA CERTIFICATION, KEEP GOING. YOU HAVE UNTIL FEBRUARY 24, 2020 TO COMPLETE YOUR CURRENT CCNA. IF YOU ALREADY HAVE CCENT/ICND1 CERTIFICATION AND WOULD LIKE TO EARN CCNA, YOU HAVE UNTIL FEBRUARY 23, 2020 TO COMPLETE YOUR CCNA CERTIFICATION IN THE CURRENT PROGRAM. LIKewise, IF YOU'RE THINKING OF COMPLETING THE CURRENT CCENT/ICND1, ICND2, OR CCNA ROUTING AND SWITCHING CERTIFICATION, YOU CAN STILL COMPLETE THEM BETWEEN NOW AND FEBRUARY 23, 2020. THE BESTSELLING CCNA PREP GUIDE WITH THE FIELD'S LEADING CISCO AUTHORITY CCNA ROUTING AND SWITCHING COMPLETE DELUXE STUDY GUIDE, 2ND EDITION IS A LEADING RESOURCE FOR THOSE TAKING THE CISCO CERTIFIED NETWORK ASSOCIATE EXAMS. WHETHER YOU'RE TAKING THE CCNA COMPOSITE EXAM OR THE ICND-1 AND ICND-2, THIS DELUXE STUDY

GUIDE HAS YOU COVERED WITH CLEAR, EXPERT GUIDANCE AND PLENTY OF HANDS-ON LABS. NETWORKING EXPERT TODD LAMMLE GUIDES YOU THROUGH 100% OF THE EXAM OBJECTIVES WITH DETAILED DISCUSSION AND REAL-WORLD INSIGHT ON ROUTING AND SWITCHING, IP DATA NETWORKS, TROUBLESHOOTING, SECURITY, AND MORE. EXAMPLES AND EXERCISES HELP YOU GAIN PRACTICAL EXPERIENCE IN CRITICAL SKILLS. THE SYBEX INTERACTIVE ONLINE LEARNING ENVIRONMENT INCLUDES HUNDREDS OF SAMPLE QUESTIONS, OVER 100 ELECTRONIC FLASHCARDS, A PRE-ASSESSMENT TEST, AND BONUS PRACTICE EXAMS TO HELP YOU TEST YOUR UNDERSTANDING AND GAUGE YOUR READINESS ALONG THE WAY. AS 80% OF THE INTERNET'S ROUTERS ARE CISCO, THE CCNA CERTIFICATION IS AN IMPORTANT START FOR ANY NETWORKING CAREER. MAKE SURE YOU'RE FULLY PREPARED FOR THE EXAM WITH THIS COMPREHENSIVE DELUXE STUDY GUIDE. MASTER 100% OF THE OBJECTIVES FOR ALL THREE EXAMS GAIN PRACTICAL EXPERIENCE WITH DOZENS OF HANDS-ON LABS TEST YOUR KNOWLEDGE WITH BONUS PRACTICE EXAMS WHEN IT COMES TO NETWORKING TECHNOLOGIES, THERE'S NO SUBSTITUTE FOR HANDS-ON EXPERIENCE. READING BEST PRACTICES IS ONE THING, BUT IT'S NOT ENOUGH TO PASS THE EXAM—OR DO THE JOB. CCNA ROUTING AND SWITCHING COMPLETE DELUXE STUDY GUIDE, 2ND EDITION GIVES YOU EVERYTHING YOU NEED TO UNDERSTAND NETWORKING CONCEPTS, AND DEMONSTRATE THOSE SKILLS ON EXAM DAY AND BEYOND.

UNDERSTANDING AND USING APIS - MUHAMMAD AFAQ KHAN 2020-01-19

DOWNLOAD YOUR FREE 200-HOUR DEVNET ASSOCIATE DEVASC 200-901 EXAM LEARNING PLAN AT [HTTPS://BIT.LY/2GrZJ4J](https://bit.ly/2GrZJ4J) THIS GUIDE IS FOR ANYONE WHO'S STUDYING FOR THE CISCO DEVNET ASSOCIATE (DEVASC) 200-901 V1.0 EXAM AND FEELS THAT HE OR SHE COULD TAKE SOME HELP ON UNDERSTANDING AND USING APPLICATION PROGRAMMING INTERFACES (APIS) RELATED TOPICS. THESE ARE AREAS THAT MOST NETWORK ENGINEERS DO NOT WORK ON IN THEIR DAY JOBS. EACH PURCHASE COMES WITH A COMPLIMENTARY ACCESS TO A DEVNET ASSOCIATE QUIZ ON FULLSTACKNETWORKER.COM. TABLE OF CONTENTS CHAPTER 1 UNDERSTANDING AND USING DATA ENCODING FORMATS (XML, JSON, AND YAML) CHAPTER 2 PARSING DATA ENCODING FORMATS IN PYTHON CHAPTER 3 CONSTRUCT A REST API REQUEST TO ACCOMPLISH A TASK GIVEN API DOCUMENTATION CHAPTER 4 DESCRIBE COMMON USAGE PATTERNS RELATED TO WEBHOOKS CHAPTER 5 IDENTIFY THE CONSTRAINTS WHEN CONSUMING APIS CHAPTER 6 EXPLAIN COMMON HTTP RESPONSE CODES ASSOCIATED WITH REST APIS CHAPTER 7 TROUBLESHOOT A PROBLEM GIVEN THE HTTP RESPONSE CODE, REQUEST AND API DOCUMENTATION CHAPTER 8 IDENTIFY THE PARTS OF AN HTTP RESPONSE (RESPONSE CODE, HEADERS, BODY) CHAPTER 9 UTILIZE COMMON API AUTHENTICATION MECHANISMS: BASIC, CUSTOM TOKEN, AND API KEYS CHAPTER 10 COMPARE COMMON API STYLES (REST, RPC, SYNCHRONOUS, AND ASYNCHRONOUS) CHAPTER 11 CONSTRUCT A PYTHON SCRIPT THAT CALLS A REST API USING THE REQUESTS LIBRARY CHAPTER 12 DESCRIBE THE DEVICE LEVEL APIS AND DYNAMIC INTERFACES FOR IOS XE AND NX-OS CHAPTER 13 UNDERSTANDING CISCO DEVNET RESOURCES CHAPTER 14 DESCRIBE EDGE AND CLOUD COMPUTING MODELS

ABOUT THE AUTHOR MUHAMMAD AFAQ KHAN STARTED HIS PROFESSIONAL CAREER AT CISCO TAC SAN JOSE AND PASSED HIS FIRST CCIE IN 2002 (#9070). HE HELD MULTIPLE TECHNICAL AND MANAGEMENT POSITIONS AT CISCO SAN JOSE HQ OVER HIS 11 YEARS OF TENURE AT THE COMPANY BEFORE MOVING INTO CLOUD SOFTWARE AND DATA CENTER INFRASTRUCTURE IT INDUSTRIES. HE HAS WORKED AT STARTUPS AS WELL AS FORTUNE 100 COMPANIES IN SENIOR LEADERSHIP POSITIONS OVER HIS CAREER. HE IS ALSO A PUBLISHED AUTHOR (CISCO PRESS, 2009) AND HOLDS MULTIPLE PATENTS IN THE AREAS OF NETWORKING, SECURITY, AND VIRTUALIZATION. CURRENTLY, HE IS A FOUNDER AT FULL STACK NETWORKER AND A VOCAL ADVOCATE FOR NETWORK AUTOMATION TECHNOLOGIES AND NETDEVOPS.

THE LINUX NETWORKING ARCHITECTURE - KLAUS WEHRLE 2004

THIS UNIQUE LINUX NETWORKING TUTORIAL REFERENCE PROVIDES STUDENTS WITH A PRACTICAL OVERVIEW AND UNDERSTANDING OF THE IMPLEMENTATION OF NETWORKING PROTOCOLS IN THE LINUX KERNEL. BY GAINING A FAMILIARITY WITH THE LINUX KERNEL ARCHITECTURE, STUDENTS CAN MODIFY AND ENHANCE THE FUNCTIONALITY OF PROTOCOL INSTANCES. -- PROVIDED BY PUBLISHER.

NETWORK PROGRAMMABILITY AND AUTOMATION - JASON EDELMAN 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

ANSIBLE FOR REAL-LIFE AUTOMATION - GINEESH MADAPPARAMBATH 2022-09-23

LEARN HOW TO AUTOMATE AND MANAGE YOUR IT INFRASTRUCTURE AND APPLICATIONS USING ANSIBLE KEY FEATURES DEVELOP ANSIBLE AUTOMATION USE CASES BY AUTOMATING DAY-TO-DAY IT AND APPLICATION OPERATIONS USE ANSIBLE TO AUTOMATE PRIVATE AND PUBLIC CLOUD, APPLICATION CONTAINERS, AND CONTAINER PLATFORMS IMPROVE YOUR DEVOPS WORKFLOW WITH ANSIBLE BOOK DESCRIPTION GET READY TO LEVERAGE THE POWER OF ANSIBLE'S WIDE APPLICABILITY TO AUTOMATE AND MANAGE IT INFRASTRUCTURE WITH ANSIBLE FOR REAL-LIFE AUTOMATION. THIS BOOK WILL GUIDE YOU IN SETTING UP AND MANAGING THE FREE AND OPEN SOURCE AUTOMATION TOOL AND REMOTE-MANAGED NODES IN THE PRODUCTION AND DEV/STAGING ENVIRONMENTS. STARTING WITH ITS INSTALLATION AND DEPLOYMENT, YOU'LL LEARN AUTOMATION USING SIMPLE USE CASES IN YOUR WORKPLACE. YOU'LL GO BEYOND JUST LINUX MACHINES TO USE ANSIBLE TO AUTOMATE MICROSOFT WINDOWS MACHINES, NETWORK DEVICES, AND PRIVATE AND PUBLIC CLOUD PLATFORMS SUCH AS VMWARE, AWS, AND GCP. AS YOU PROGRESS THROUGH THE CHAPTERS, YOU'LL INTEGRATE ANSIBLE INTO YOUR DEVOPS WORKFLOW AND DEAL WITH APPLICATION CONTAINER MANAGEMENT AND CONTAINER PLATFORMS SUCH AS KUBERNETES. THIS ANSIBLE BOOK ALSO CONTAINS A DETAILED INTRODUCTION TO RED HAT ANSIBLE AUTOMATION PLATFORM TO HELP YOU GET UP TO SPEED WITH RED HAT AAP AND INTEGRATION WITH

CI/CD AND ITSM. WHAT'S MORE, YOU'LL IMPLEMENT EFFICIENT AUTOMATION SOLUTIONS WHILE LEARNING BEST PRACTICES AND METHODS TO SECURE SENSITIVE DATA USING ANSIBLE VAULT AND ALTERNATIVES TO AUTOMATE NON-SUPPORTED PLATFORMS AND OPERATIONS USING RAW COMMANDS, COMMAND MODULES, AND REST API CALLS. BY THE END OF THIS BOOK, YOU'LL BE PROFICIENT IN IDENTIFYING AND DEVELOPING REAL-LIFE AUTOMATION USE CASES USING ANSIBLE. WHAT YOU WILL LEARN EXPLORE REAL-LIFE IT AUTOMATION USE CASES AND EMPLOY ANSIBLE FOR AUTOMATION DEVELOP PLAYBOOKS WITH BEST PRACTICES FOR PRODUCTION ENVIRONMENTS APPROACH DIFFERENT AUTOMATION USE CASES WITH THE

MOST SUITABLE METHODS USE ANSIBLE FOR INFRASTRUCTURE MANAGEMENT AND AUTOMATE VMWARE, AWS, AND GCP INTEGRATE ANSIBLE WITH TERRAFORM, JENKINS, OPENSHIFT, AND KUBERNETES MANAGE CONTAINER PLATFORMS SUCH AS KUBERNETES AND OPENSHIFT WITH ANSIBLE GET TO KNOW THE RED HAT ANSIBLE AUTOMATION PLATFORM AND ITS CAPABILITIES WHO THIS BOOK IS FOR THIS BOOK IS FOR DEVOPS AND SYSTEMS ENGINEERS LOOKING TO ADOPT ANSIBLE AS THEIR AUTOMATION TOOL. TO GET STARTED WITH THIS BOOK, BASIC KNOWLEDGE OF LINUX IS NECESSARY, ALONG WITH AN UNDERSTANDING OF HOW TASKS ARE DONE THE MANUAL WAY BEFORE SETTING OUT TO AUTOMATE THEM.