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Your one-step guide to understanding industrial cyber security, its control systems, and its operations. About This Book Learn about endpoint protection such as anti-

malware implementation, updating, monitoring, and sanitizing user workloads and mobile devices Filled with practical examples to help you secure critical infrastructure systems efficiently A step-by-step guide that will teach you the techniques and methodologies of building robust infrastructure systems Who This Book Is

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For If you are a security professional and want to ensure a robust environment for critical infrastructure systems, this book is for you. IT professionals interested in getting into the cyber security domain or who are looking at gaining industrial cyber security certifications will also find this book useful.

What You Will Learn Understand industrial

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cybersecurity, its control systems and operations Design security-oriented architectures, network segmentation, and security support services Configure event monitoring systems, anti-malware applications, and endpoint security Gain knowledge of ICS risks, threat detection, and access management Learn about patch

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management and life cycle management  
Secure your industrial control systems from design through retirement In Detail With industries expanding, cyber attacks have increased significantly. Understanding your control system's vulnerabilities and learning techniques to defend critical infrastructure systems from cyber threats is increasingly

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important. With the help of real-world use cases, this book will teach you the methodologies and security measures necessary to protect critical infrastructure systems and will get you up to speed with identifying unique challenges. Industrial cybersecurity begins by introducing Industrial Control System (ICS) technology,

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including ICS architectures, communication media, and protocols. This is followed by a presentation on ICS (in) security. After presenting an ICS-related attack scenario, securing of the ICS is discussed, including topics such as network segmentation, defense-in-depth strategies, and protective solutions. Along with practical examples for



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protecting industrial control systems, this book details security assessments, risk management, and security program development. It also covers essential cybersecurity aspects, such as threat detection and access management. Topics related to endpoint hardening such as monitoring, updating, and anti-malware

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implementations are also discussed. Style and approach A step-by-step guide to implement Industrial Cyber Security effectively.

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Gabbi on a fun, cyber safe adventure and learn the ins and outs of how to behave and how to keep yourself safe online. In this day in age our kids are accessing the internet about as soon as they can read! Cyber Safe is a fun way to ensure they understand their surroundings in our digital world.

As networks grow ever more complex,

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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 Network Automation Made Easy, expert practitioner

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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

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automation tools Capturing essential data for use in network automation, using standard formats such as JSON, XML, and YAML Getting more value from the data your network can capture Installing Ansible and mastering its building blocks, including plays, tasks, modules, variables, conditionals, loops, and roles Performing

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common networking tasks with Ansible playbooks: managing files, devices, VMs, cloud constructs, APIs, and more

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step Building a network automation strategy from the ground up, reflecting enterprise lessons

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security tasks Learn to write playbooks that apply security to any part of your system

This recipe-based guide will teach you to use Ansible 2 for various use cases such as fraud detection, network security, governance, and more Who This Book Is For If you are a system administrator or a DevOps engineer with responsibility for finding loop holes in

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your system or application, then this book is for you. It's also useful for security consultants looking to automate their infrastructure's security model. What You Will Learn Use Ansible playbooks, roles, modules, and templating to build generic, testable playbooks Manage Linux and Windows hosts remotely in a repeatable and

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predictable manner See how to perform security patch management, and security hardening with scheduling and automation Set up AWS Lambda for a serverless automated defense Run continuous security scans against your hosts and automatically fix and harden the gaps Extend Ansible to write your custom modules and use them as

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part of your already existing security automation programs Perform automation security audit checks for applications using Ansible Manage secrets in Ansible using Ansible Vault In Detail Security automation is one of the most interesting skills to have nowadays. Ansible allows you to write automation procedures once and use them

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across your entire infrastructure. This book will teach you the best way to use Ansible for seemingly complex tasks by using the various building blocks available and creating solutions that are easy to teach others, store for later, perform version control on, and repeat. We'll start by covering various popular modules and

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writing simple playbooks to showcase those modules. You'll see how this can be applied over a variety of platforms and operating systems, whether they are Windows/Linux bare metal servers or containers on a cloud platform. Once the bare bones automation is in place, you'll learn how to leverage tools such as Ansible Tower or even Jenkins to

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create scheduled repeatable processes around security patching, security hardening, compliance reports, monitoring of systems, and so on. Moving on, you'll delve into useful security automation techniques and approaches, and learn how to extend Ansible for enhanced security. While on the way, we will tackle topics like



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how to manage secrets, how to manage all the playbooks that we will create and how to enable collaboration using Ansible Galaxy. In the final stretch, we'll tackle how to extend the modules of Ansible for our use, and do all the previous tasks in a programmatic manner to get even more powerful automation frameworks and rigs.

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cloud software solutions in Oracle's data centers across the world, paying only for the resources you actually use. Oracle

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networking), edge services (DNS, web application firewall), and Platform as a Service (PaaS) capabilities (such as Oracle Autonomous Database which supports both transactional and analytical workloads, the certified and fully managed Oracle Kubernetes Engine, and a serverless platform based

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guide IT in the DevOps revolution. In this newly updated and expanded edition of the bestselling *The Phoenix Project*, co-author Gene Kim includes a new afterword and a deeper delve into the Three Ways as described in *The DevOps Handbook*. Bill, an IT manager at Parts Unlimited, has been tasked with taking

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on a project critical to the future of the  
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mysterious philosophy of The Three  
Ways, Bill starts to see that IT work has  
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technology. My goal in writing The Unicorn Project was to explore and reveal the necessary but invisible structures required to make developers (and all engineers) productive, and reveal the devastating effects of technical debt and complexity. I hope this book can create common ground for technology

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Security automation is the automatic handling of software security assessments tasks. This book helps you to build your security automation framework to scan for vulnerabilities without human intervention. This book will teach

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you to adopt security automation techniques to continuously improve your entire software development and security testing. You will learn to use open source tools and techniques to integrate security testing tools directly into your

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CI/CD framework. With this book, you will see how to implement security inspection at every layer, such as secure code inspection, fuzz testing, Rest API, privacy, infrastructure security, and web UI testing. With the help of practical

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examples, this book will teach you to implement the combination of automation and Security in DevOps. You will learn about the integration of security testing results for an overall security status for projects. By the end of this book, you will be

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confident implementing automation security in all layers of your software development stages and will be able to build your own in-house security automation platform throughout your mobile and cloud releases. What you will

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learnAutomate secure code  
inspection with open source tools  
and effective secure code scanning  
suggestionsApply security testing  
tools and automation frameworks to  
identify security vulnerabilities in  
web, mobile and cloud

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services Integrate security testing tools such as OWASP ZAP, NMAP, SSLyze, SQLMap, and OpenSCAP Implement automation testing techniques with Selenium, JMeter, Robot Framework, Gauntlt, BDD, DDT, and Python



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unittestExecute security testing of a Rest API Implement web application security with open source tools and script templates for CI/CD integrationIntegrate various types of security testing tool results from a single project into one

Read Book Network Protection Automation Guide The Latest Edition Of The Protection Relay dashboard Who this book is for The book is for software developers, architects, testers and QA engineers who are looking to leverage automated security testing techniques.

Become an expert in implementing

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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

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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

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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

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interaction with the device  
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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

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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

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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



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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

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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

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mechanism, flow-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

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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,

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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

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network device automation,  
DevOps, and SDN.

Like sysadmins before them, network engineers are finding that they cannot do their work manually anymore. As the field faces new protocols, technologies, delivery

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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,

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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



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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

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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

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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

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tools can be used to automate network devices Key tools and technologies required for a Continuous Integration (CI) pipeline in network operations

Capitalist Nigger is an explosive and jarring indictment of the black race.

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The book asserts that the Negroid race, as naturally endowed as any other, is culpably a non-productive race, a consumer race that depends on other communities for its culture, its language, its feeding and its clothing. Despite enormous natural

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resources, blacks are economic slaves because they lack the "devil-may-care" attitude and the "killer instinct" of the Caucasian, as well as the spider web mentality of the Asian. A Capitalist Nigger must embody ruthlessness in pursuit of

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excellence in his drive towards achieving the goal of becoming an economic warrior. In putting forward the idea of the Capitalist Nigger, Chika Onyeani charts a road to success whereby black economic warriors employ the "Spider Web

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Doctrine – discipline, self-reliance,  
ruthlessness – to escape from their  
victim mentality. Born in Nigeria,  
Chika Onyeani is a journalist, editor  
and former diplomat.

Enterprise Networking, Security,  
and Automation (Ccnv7)



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Companion Guide & Labs and  
Study Guide Value Pack

Protective Relays, Measurement and  
Control

Leverage the power of Python and  
Ansible to optimize your network  
Practical Network Automation

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Practical Oracle Cloud  
Infrastructure  
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Zero Trust Networks

**As the sophistication of cyber-  
attacks increases,  
understanding how to defend  
critical infrastructure**

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**systems—energy production, water, gas, and other vital systems—becomes more important, and heavily mandated. Industrial Network Security, Second Edition arms you with the knowledge you need to understand the**

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**vulnerabilities of these distributed supervisory and control systems. The book examines the unique protocols and applications that are the foundation of industrial control systems, and provides clear guidelines**

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**for their protection. This how-to guide gives you thorough understanding of the unique challenges facing critical infrastructures, new guidelines and security measures for critical infrastructure protection,**

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**knowledge of new and evolving security tools, and pointers on SCADA protocols and security implementation. All-new real-world examples of attacks against control systems, and more diagrams of systems Expanded coverage**

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**of protocols such as 61850, Ethernet/IP, CIP, ISA-99, and the evolution to IEC62443**

**Expanded coverage of Smart Grid security New coverage of signature-based detection, exploit-based vs. vulnerability-based detection, and**

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**signature reverse engineering**  
**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**



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**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**

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**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**

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**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**

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**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**

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**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**

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**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**

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**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**

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**(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**



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**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**

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**enable you to automate  
networks and improve  
performance.**

**With distributed generation  
interconnection power flow  
becoming bidirectional,  
culminating in network  
problems, smart grids aid in**

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**electricity generation, transmission, substations, distribution and consumption to achieve a system that is clean, safe (protected), secure, reliable, efficient, and sustainable. This book illustrates fault analysis,**

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**fuses, circuit breakers, instrument transformers, relay technology, transmission lines protection setting using DIGsILENT Power Factory. Intended audience is senior undergraduate and graduate students, and researchers in**

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power systems, transmission  
and distribution, protection  
system broadly under  
electrical engineering.  
Network Protection and  
Automation Guide Protective  
Relays, Measurement and  
Control Network Protection &

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Guide Programming and  
Automating Cisco Networks A  
guide to network  
programmability and**

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Cisco Press  
Infrastructure as a Service,  
Autonomous Database,  
Managed Kubernetes, and  
Serverless  
A guide to network  
programmability and

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Efficiently secure critical  
infrastructure systems  
Practical Security Automation  
and Testing  
Applied Network Security  
Monitoring



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**The Automation Advantage:  
Embrace the Future of  
Productivity and Improve  
Speed, Quality, and Customer  
Experience Through AI**  
*Pharmaceutical  
manufacturing can be*

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*viewed as a supply chain  
which spans from the  
production and purchase  
of the starting and  
packaging materials  
through the manufacture  
of dosage forms until*

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*the safe reception of  
the finished product by  
the patient. The entire  
chain comprises of  
several processes:  
auditing, materials  
purchase (procurement),*

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*production, storage,  
distribution, quality  
control, and quality  
assurance. The quality  
standard for  
pharmaceutical  
production is 'current*

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*good manufacturing  
practice (CGMP)'' , which  
is applied within the  
frame of a  
pharmaceutical quality  
system (PQS). This  
implementation, however,*

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*requires a scientific  
approach and has to take  
into account several  
elements such as risk  
assessment, life cycle,  
patient protection,  
among other factors.*

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*Hence, pharmaceutical  
manufacturing is a  
complex subject in terms  
of regulation, given the  
technical and managerial  
requirements. This  
comprehensive handbook*

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*describes CGMP for new professionals who want to understand and apply the elements which build up pharmaceutical quality assurance. The book gives details about*



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*basic quality control  
requirements (such as  
risk management, quality  
hazards and management  
systems, documentation,  
clean environments,  
personnel training) and*

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*gives guidelines on regulatory aspects. This is an ideal handbook for undergraduates studying pharmaceutical or industrial manufacturing and supply chains as*

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*well for entrepreneurs  
and quality control  
professionals seeking to  
learn about CGMP  
standards and  
implementing quality  
assurance systems in the*

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*pharmaceutical sector.*  
*This new book, by the*  
*original developer of*  
*the BACnet standards,*  
*explains how BACnet's*  
*protocols manage all*  
*basic building functions*

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*in a seamless,  
integrated way. BACnet  
is a data communication  
protocol for building  
automation and control  
systems, developed  
within ASHRAE in*

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*cooperation with ANSI  
and the ISO. This book  
explains how BACnet  
works with all major  
control  
systems--including those  
made by Honeywell,*

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*Siemens, and Johnson  
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Controls--to manage  
everything from heating  
to ventilation to  
lighting to fire control  
and alarm systems.  
BACnet is used today

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*throughout the world for  
commercial and  
institutional buildings  
with complex mechanical  
and electrical systems.  
Contractors, architects,  
building systems*



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*engineers, and*  
*facilities managers must*  
*all be cognizant of*  
*BACnet and its*  
*applications. With a*  
*real 'seat at the*  
*table, ' you'll find it*

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*easier to understand the  
intent and use of each  
of the data sharing  
techniques, controller  
requirements, and  
opportunities for  
interoperability between*

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*different manufacturers' controllers and systems. Highlights include: \* A review of the history of BACnet and its essential features, including the object model, data*

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*links, network  
technologies, and BACnet  
system configurations; \**  
*Comprehensive coverage  
of services including  
object access, file  
access, remote device*

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*management, and  
BACnet-2012's new alarm  
and event capabilities;  
\* Insight into future  
directions for BACnet,  
including wireless  
networking, network*

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*security, the use of  
IPv6, extensions for  
lifts and escalators,  
and a new set of BACnet  
Web Services; \**

*Extensive reference  
appendices for all*

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*objects and services;*  
*and \* Acronyms and*  
*abbreviations*

*The perimeter defenses*  
*guarding your network*  
*perhaps are not as*  
*secure as you think.*

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*Hosts behind the  
firewall have no  
defenses of their own,  
so when a host in the  
"trusted" zone is  
breached, access to your  
data center is not far*



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behind. That's an all-  
too-familiar scenario  
today. With this  
practical book, you'll  
learn the principles  
behind zero trust  
architecture, along with

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*details necessary to  
implement it. The Zero  
Trust Model treats all  
hosts as if they're  
internet-facing, and  
considers the entire  
network to be*

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*compromised and hostile.  
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By taking this approach,  
you'll focus on building  
strong authentication,  
authorization, and  
encryption throughout,  
while providing*

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*compartmentalized access  
and better operational  
agility. Understand how  
perimeter-based defenses  
have evolved to become  
the broken model we use  
today Explore two case*

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*studies of zero trust in  
production networks on  
the client side (Google)  
and on the server side  
(PagerDuty) Get example  
configuration for open  
source tools that you*

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*can use to build a zero  
trust network Learn how  
to migrate from a  
perimeter-based network  
to a zero trust network  
in production*  
**Network automation is**

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*one of the hottest  
topics in Information  
Technology today. This  
revolutionary book aims  
to illustrate the  
transformative journey  
towards full enterprise*

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*network automation. This  
book outlines the tools,  
technologies and  
processes required to  
fully automate an  
enterprise network.  
Automated network*



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*configuration management  
is more than converting  
your network  
configurations to code.  
The benefits of source  
control, version  
control, automated*

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*builds, automated  
testing and automated  
releases are realized in  
the world of networking  
using well established  
software development  
practices. The next-*

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*generation network  
administrative toolkit  
is introduced including  
Microsoft Team  
Foundation Server,  
Microsoft Visual Studio  
Code, Git, Linux, and*

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*the Ansible framework.  
Not only will these new technologies be covered at length, a new and continuously integrated / continuously delivered pipeline is also*

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*introduced. Starting  
with safe, simple, non-  
intrusive, non-  
disruptive information  
gathering organizations  
can ease into network  
automation while*

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*building a dynamic library of documentation and on-demand utilities for network operations. Once comfortable with the new ecosystem, administrators can begin*

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making fully automated,  
orchestrated, and  
tactical changes to the  
network. The next  
evolutionary leap occurs  
when fully automated  
network configuration

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*management is  
implemented. Important  
information from the  
network running-  
configurations is  
abstracted into data  
models in a human*



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*readable format. Device configurations are dynamically templated creating a scalable, intent-based, source of truth. Much like in the world of software*

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development, full  
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automation of the  
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network using a CI/CD  
pipeline can be  
realized. Automated  
builds, automated  
testing and automated

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*scheduled releases are  
orchestrated and  
executed when changes  
are approved and checked  
into the central  
repository. This book is  
unlike any on the market*

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*today as it includes multiple Ansible playbooks, sample YAML data models and Jinja2 templates for network devices, and a whole new methodology and approach*

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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

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*ecosystem. Readers should have some basic understanding of modern network design, operation, and configuration. No prior programming or software*

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development experience  
Bible From Schneider Electric  
is required. John  
Prag And Npag  
Capobianco has over 20  
years of IT experience  
and is currently a  
Technical Advisor for  
the Canadian House of



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*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*

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Networking and Technical  
Support (CNTS) program.  
John has achieved CCNP,  
CCDP, CCNA: Data Center,  
MCITP: EA/SA, CompTIA A+  
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