Nagios Xi User Guide

This comprehensive self-study guide offers complete coverage of the new CompTIA Cybersecurity Analyst+ certification exam Note: This guide has been updated to reflect CompTIA's exam acronym CySA+. This highly effective self-study system provides complete coverage of every objective for the challenging CompTIA CySA+ Cybersecurity Analyst exam. You'll find learning objectives at the beginning of each chapter, exam tips, in-depth explanations, and practice exam questions. All questions closely mirror those on the live test in content, format, and tone. Designed to help you pass exam CS0-001 with ease, this definitive guide also serves as an essential on-the-job reference. Covers every topic on the exam, including: ●Threat and vulnerability management ●Conducting and analyzing reconnaissance ●Responding to network-based threats ●Securing a cooperate network ●Cyber incident response ●Determining the impact of incidents ●Preparing the incident response toolkit ●Security architectures ●Policies, procedures, and controls ●Assuring identity and access management ●Putting in compensating controls ●Secure software development Electronic content includes: ●200 practice questions ●Secured book PDF

This complete field guide, authorized by Juniper Networks, is the perfect hands-on reference for deploying, configuring, and operating Juniper's SRX Series networking device. Authors Brad Woodberg and Rob Cameron provide field-tested best practices for getting the most out of SRX deployments, based on their extensive field experience. While their earlier book, Junos Security, covered the SRX platform, this book focuses on the SRX Series devices themselves. You'll learn how to use SRX gateways to address an array of network requirements—including IP routing, intrusion detection, attack mitigation, unified threat management, and WAN acceleration. Along with case studies and troubleshooting tips, each chapter provides study questions and lots of useful illustrations. Explore SRX components, platforms, and various deployment scenarios Learn best practices for configuring SRX's core networking features Leverage SRX system services to attain the best operational state Deploy SRX in transparent mode to act as a Layer 2 bridge Configure, troubleshoot, and deploy SRX in a highly available manner Design and configure an effective security policy in your network Implement and configure network address translation (NAT) types Provide security against deep threats with AppSecure, intrusion protection services, and unified threat management tools

If you're looking for a scalable storage solution to accommodate a virtually endless amount of data, this book shows you how Apache HBase can fulfill your needs. As the open source implementation of Google's BigTable architecture, HBase scales to billions of rows and millions of columns, while ensuring that write and read performance remain constant. Many IT executives are asking pointed questions about HBase. This book provides meaningful answers, whether you're evaluating this non-relational database or planning to put it into practice right away. Discover how tight integration with Hadoop makes scalability with HBase easier Distribute large datasets across an inexpensive cluster of commodity servers Access HBase with native Java clients, or with gateway servers providing REST, Avro, or Thrift APIs Get details on HBase's architecture, including the storage format, write-ahead log, background processes, and more Integrate HBase with Hadoop's MapReduce framework for massively parallelized data processing jobs Learn how to tune clusters, design schemas, copy tables, import bulk data, decommission nodes, and many other tasks

Learn and implement various techniques related to testing, monitoring and optimization for microservices architecture. Key Features Learn different approaches for testing microservices to design and implement, robust and secure applications Become more efficient while working with microservices Explore Testing and Monitoring tools such as JMeter, Ready API,and AppDynamics Book Description Microservices are the latest "right" way of developing web applications. Microservices architecture has been gaining momentum over the past few years, but once you've started down the microservices path, you need to test and optimize the services. This book focuses on exploring various testing, monitoring, and optimization techniques for microservices. The book starts with the evolution of software architecture style, from monolithic to virtualized, to microservices architecture. Then you will explore methods to deploy microservices and various implementation patterns. With the help of a real-world example, you will understand how external APIs help product developers to focus on core competencies. After that, you will learn testing techniques, such as Unit Testing, Integration Testing, Functional Testing, and Load Testing. Next, you will explore performance testing tools, such as JMeter, and Gatling. Then, we deep dive into monitoring techniques and learn performance benchmarking of the various architectural components. For this, you will explore monitoring tools such as Appdynamics, Dynatrace, AWS CloudWatch, and Nagios. Finally, you will learn to identify, address, and report various performance issues related to microservices. What you will learn Understand the architecture of microservices and how to build services Establish how external APIs help to accelerate the development process Understand testing techniques, such as unit testing, integration testing, end-to-end testing, and UI/functional testing Explore various tools related to the performance testing, monitoring, and optimization of microservices Design strategies for performance testing Identify performance issues and fine-tune performance Who this book is for This book is for developers who are involved with microservices architecture to develop robust and secure applications. Basic knowledge of microservices is essential in order to get the most out of this book.

Ansible: Up and Running

UNIX and Linux System Administration Handbook

Microservices from Theory to Practice: Creating Applications in IBM Bluemix Using the Microservices Approach

Exam 201 and Exam 202

Automating Configuration Management and Deployment the Easy Way

Practical Packet Analysis

Virtual, hands-on learning labs allow you to apply your technical skills using live hardware and software hosted in the cloud. So Sybex has bundled CompTIA CySA+ labs from Practice Labs, the IT Competency Hub, with our popular CompTIA CySA+ Study Guide, Second Edition. Working in these labs gives you the same experience you need to prepare for the CompTIA CySA+ Exam CS0-002 that you would face in a real-life setting. Used in addition to the book, the labs are a proven way to prepare for the certification and for work in the cybersecurity field. The CompTIA CySA+ Study Guide Exam CS0-002, Second Edition provides clear and concise information on crucial security topics and verified 100% coverage of the revised CompTIA Cybersecurity Analyst+ (CySA+) exam objectives. You'll be able to gain insight from practical, real-world examples, plus chapter reviews and exam highlights. Turn to this comprehensive resource to gain authoritative coverage of a range of security subject areas. Review threat and vulnerability management topics Expand your knowledge of software and systems security Gain greater understanding of security operations and monitoring Study incident response information Get guidance on

compliance and assessment The CompTIA CySA+ Study Guide, Second Edition connects you to useful study tools that help you prepare for the exam. Gain confidence by using its interactive online test bank with hundreds of bonus practice questions, electronic flashcards, and a searchable glossary of key cybersecurity terms. You also get access to hands-on labs and have the opportunity to create a cybersecurity toolkit. Leading security experts, Mike Chapple and David Seidl, wrote this valuable guide to help you prepare to be CompTIA Security+ certified. If you're an IT professional who has earned your CompTIA Security+ certification, success on the CySA+ (Cybersecurity Analyst) exam stands as an impressive addition to your professional credentials. Preparing and taking the CS0-002 exam can also help you plan for advanced certifications, such as the CompTIA Advanced Security Practitioner (CASP+). And with this edition you also get Practice Labs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months unlimited access to Practice Labs CompTIA CySA+ Exam CS0-002 Labs with 30 unique lab modules to practice your skills.

Provides information on ways to use Wireshark to capture and analyze packets, covering such topics as building customized capture and display filters, graphing traffic patterns, and building statistics and reports.

"As an author, editor, and publisher, I never paid much attention to the competition—except in a few cases. This is one of those cases. The UNIX System Administration Handbook is one of the few books we ever measured ourselves against." —Tim O'Reilly, founder of O'Reilly Media "This edition is for those whose systems live in the cloud or in virtualized data centers; those whose administrative work largely takes the form of automation and configuration source code; those who collaborate closely with developers, network engineers, compliance officers, and all the other worker bees who inhabit the modern hive." —Paul Vixie, Internet Hall of Fame-recognized innovator and founder of ISC and Farsight Security "This book is fun and functional as a desktop reference. If you use UNIX and Linux systems, you need this book in your short-reach library. It covers a bit of the systems' history but doesn't bloviate. It's just straight-forward information delivered in a colorful and memorable fashion." —Jason A. Nunnelley UNIX® and Linux® System Administration Handbook, Fifth Edition, is today's definitive guide to installing, configuring, and maintaining any UNIX or Linux system, including systems that supply core Internet and cloud infrastructure. Updated for new distributions and cloud environments, this comprehensive guide covers best practices for every facet of system administration, including storage management, network design and administration, security, web hosting, automation, configuration management, performance analysis, virtualization, DNS, security, and the management of IT service organizations. The authors—world-class, hands-on technologists—offer indispensable new coverage of cloud platforms, the DevOps philosophy, continuous deployment, containerization, monitoring, and many other essential topics. Whatever your role in running systems and networks built on UNIX or Linux, this conversational, well-written ¿guide will improve your efficiency and help solve your knottiest problems.

Full coverage of the latest LPI-level 2 exams, with bonus online test bank LPIC-2 is the one-stop preparation resource for the Linux Professional Institute's Advanced Level certification exam. With 100 percent coverage of all exam objectives, this book provides clear and concise coverage of the Linux administration topics you'll need to know for exams 201 and 202. Practical examples highlight the real-world applications of important concepts, and together, the author team provides insights based on almost fifty years in the IT industry. This brand new second edition has been completely revamped to align with the latest versions of the exams, with authoritative coverage of the Linux kernel, system startup, advanced storage, network configuration, system maintenance, web services, security, troubleshooting, and more. You also get access to online learning tools including electronic flashcards, chapter tests, practice exams, and a glossary of critical terms to help you solidify your understanding of upper-level Linux administration topics. The LPI-level 2 certification confirms your advanced Linux skill set, and the demand for qualified professionals continues to grow. This book gives you the conceptual guidance and hands-on practice you need to pass the exam with flying colors. Understand all of the material for both LPIC-2 exams Gain insight into real-world applications Test your knowledge with chapter tests and practice exams Access online study aids for more thorough preparation Organizations are flocking to the open-source Linux as an excellent, low-cost, secure alternative to expensive operating systems like Microsoft Windows. As the Linux market share continues to climb, organizations are scrambling to find network and server administrators with expert Linux knowledge and highly practical skills. The LPI-level 2 certification makes you the professional they need, and LPIC-2 is your ideal guide to getting there.

Hands-On Microservices – Monitoring and Testing
Debian Jessie From Discovery To Mastery

An Enterprise Perspective on Risks and Compliance
From Asterisk to Zebra with Easy-to-Use Recipes
Nagios Core Administration Cookbook
The Definitive Guide
You may regard cloud computing as an ideal way for your company to control IT costs, but do you know how private and secure this service really is? Not many peopl
Security and Privacy, you'll learn what's at stake when you trust your data to the cloud, and what you can do to keep your virtual infrastructure and web applications
IT staffers, information security and privacy practitioners, business managers, service providers, and investors alike, this book offers you sound advice from three well-
authorities in the tech security world. You'll learn detailed information on cloud computing security that-until now-has been sorely lacking. Review the current state of
and storage in the cloud, including confidentiality, integrity, and availability Learn about the identity and access management (IAM) practice for authentication, authoriz
auditing of the users accessing cloud services Discover which security management frameworks and standards are relevant for the cloud Understand the privacy aspe
consider in the cloud, including how they compare with traditional computing models Learn the importance of audit and compliance functions within the cloud, and the
standards and frameworks to consider Examine security delivered as a service-a different facet of cloud security
Prepare for the challenging CySA+ certification exam with this money-saving, comprehensive study package Designed as a complete self-study program, this collection
of proven resources to use in preparation for the CompTIA Cybersecurity Analyst (CySA+) certification exam. Comprised of CompTIA CySA+ Cybersecurity Analyst Certi
In-One Exam Guide (CSO-001) and CompTIA CySA+ Cybersecurity Analyst Certification Practice Exams (Exam CSO-001), this bundle thoroughly covers every topic on th
CompTIA CySA+ Cybersecurity Analyst Certification Bundle contains more than 800 practice questions that match those on the live exam in content, difficulty, tone, a
set includes detailed coverage of performance-based questions. You will get exam-focused "Tip," "Note," and "Caution" elements as well as end of chapter reviews. This
cost-effective bundle serves both as a study tool AND a valuable on-the-job reference for computer security professionals. •This bundle is 25% cheaper than purchasin
individually and includes a 10% off the exam voucher•Written by a team of computer security experts•Electronic content includes 800+ practice exam questions and s
copies of both books
Get to grips with a new technology, understand what it is and what it can do for you, and then get to work with the most important features and tasks.A concise gu
easy-to-follow format.Instant Nagios Starter is an outstanding resource for system engineers, administrators and developers, with a basic understanding of the Linux
Readers should have access to a test system or virtual machine with Linux installed to follow the given examples.
The infrastructure-as-code revolution in IT is also affecting database administration. With this practical book, developers, system administrators, and junior to mid-leve
learn how the modern practice of site reliability engineering applies to the craft of database architecture and operations. Authors Laine Campbell and Charity Majors p
framework for professionals looking to join the ranks of today's database reliability engineers (DBRE). You'll begin by exploring core operational concepts that DBREs ne
master. Then you'll examine a wide range of database persistence options, including how to implement key technologies to provide resilient, scalable, and performant d
retrieval. With a firm foundation in database reliability engineering, you'll be ready to dive into the architecture and operations of any modern database. This book cove
level requirements and risk management Building and evolving an architecture for operational visibility Infrastructure engineering and infrastructure management How
the release management process Data storage, indexing, and replication Identifying datastore characteristics and best use cases Datastore architectural components a
architectures
Nginx Essentials
IBM Platform Computing Solutions
OpenStack Operations Guide
Juniper SRX Series
CompTIA CySA+ Cybersecurity Analyst Certification All-in-One Exam Guide (Exam CSO-001)
Nagios, 2nd Edition
The Definitive Guide to MongoDB, Third Edition, is updated for MongoDB 3 and includes all of the latest MongoDB features, including the aggregation
framework introduced in version 2.2 and hashed indexes in version 2.4. The Third Edition also now includes Python. MongoDB is the most popular of the
"Big Data" NoSQL database technologies, and it's still growing. David Hows from 10gen, along with experienced MongoDB authors Peter Membrey and
Eelco Plugge, provide their expertise and experience in teaching you everything you need to know to become a MongoDB pro.
Design, deploy, and maintain your own private or public Infrastructure as a Service (IaaS), using the open source OpenStack platform. In this practical
guide, experienced developers and OpenStack contributors show you how to build clouds based on reference architectures, as well as how to perform

daily administration tasks. Designed for horizontal scalability, OpenStack lets you build a cloud by integrating several technologies. This approach provides flexibility, but knowing which options to use can be bewildering. Once you complete this book, you'll know the right questions to ask while you organize compute, storage, and networking resources. If you already know how to manage multiple Ubuntu machines and maintain MySQL, you're ready to: Set up automated deployment and configuration Design a single-node cloud controller Use metrics to improve scalability Explore compute nodes, network design, and storage Install OpenStack packages Use an example architecture to help simplify decision-making Build a working environment to explore an IaaS cloud Manage users, projects, and quotas Tackle maintenance, debugging, and network troubleshooting Monitor, log, backup, and restore

Debian GNU/Linux, a very popular non-commercial Linux distribution, is known for its reliability and richness. Built and maintained by an impressive network of thousands of developers throughout the world, the Debian project is cemented by its social contract. This foundation text defines the project's objective: fulfilling the needs of users with a 100% free operating system. The success of Debian and of its ecosystem of derivative distributions (with Ubuntu at the forefront) means that an increasing number of administrators are exposed to Debian's technologies. This Debian Administrator's Handbook, which has been entirely updated for Debian 8 "Jessie", builds on the success of its 6 previous editions. Accessible to all, this book teaches the essentials to anyone who wants to become an effective and independent Debian GNU/Linux administrator. It covers all the topics that a competent Linux administrator should master, from installation to updating the system, creating packages and compiling the kernel, but also monitoring, backup and migration, without forgetting advanced topics such as setting up SELinux or AppArmor to secure services, automated installations, or virtualization with Xen, KVM or LXC. This book is not only designed for professional system administrators. Anyone who uses Debian or Ubuntu on their own computer is de facto an administrator and will find tremendous value in knowing more about how their system works. Being able to understand and resolve problems will save you invaluable time. Learn more about the book on its official website: debian-handbook.info

Nginx is an open source and cross-platform reverse proxy server designed for low memory usage and high performance and concurrency. This book provides both basic and in-depth knowledge to help you effectively solve challenges with Nginx, or comfortably go through a transition period when switching to Nginx. Starting with the basics, you will learn by example how to set up, configure, and operate an Nginx installation and use features of Nginx to elegantly solve challenges you experience every day when running your website. You will learn to use the rewrite engine to solve day-to-day tasks and be able to configure access restrictions in Nginx. You will also be able to manage inbound traffic using a number of Nginx features and use Nginx for load balancing and fault-tolerance features. Finally, you will learn how to solve common performance problems and apply a number of performance-tuning strategies. Through easy exploration of the most intricate topics, this book aims to bring you to the next level in your Nginx experience.

Hadoop in Practice

Real-Time Data and Stream Processing at Scale

Solr in Action

Instant Nagios Starter

How to Accelerate Your Internet

IBM Open Platform for DBaaS on IBM Power Systems

Get up to speed with Prometheus, the metrics-based monitoring system used by tens of thousands of organizations in production. This practical guide provides application developers, sysadmins, and DevOps practitioners with a hands-on introduction to the most important aspects of Prometheus, including dashboarding and alerting, direct code instrumentation, and metric collection from third-party systems with exporters. This open source system has gained popularity over the past few years for good reason. With its simple yet powerful data model and query language, Prometheus does one thing, and it does it well. Author and Prometheus developer Brian Brazil guides you through Prometheus setup, the Node exporter, and the Alertmanager, then demonstrates how to use them for application and infrastructure monitoring. Know where and how much to apply instrumentation to your application code Identify metrics with labels using unique key-value pairs Get an introduction to Grafana, a popular tool for building dashboards Learn how to use the Node Exporter to monitor your infrastructure Use service discovery to provide different views of your machines and services Use Prometheus with Kubernetes and examine exporters you can use with containers Convert data from other monitoring systems into the Prometheus format

The Fully Updated Guide to Enterprise Network Monitoring with Today's Nagios Platform and Tools This is the definitive guide to building cost-effective, enterprise-strength monitoring infrastructures with the latest commercial and open source versions of Nagios. World-renowned monitoring expert David Josephsen covers the entire monitoring software stack, treating Nagios as a specification language and foundation for building well designed monitoring systems that can scale to serve any organization. Drawing on his unsurpassed experience, Josephsen demonstrates best practices throughout and also reveals common mistakes, their consequences, and how to avoid them. He provides all the technical depth you need to configure and run Nagios successfully, including a practical and thorough discussion of writing your own custom modules with the C-based Nagios Event-Broker API.

Extensively updated throughout, this edition adds an entirely new chapter on scaling Nagios for large, complex networks that rely heavily on virtualization and cloud services. Josephsen thoroughly introduces Nagios XI, the advanced new commercial version of Nagios and shows how to improve productivity with the latest third-party tools and plug-ins. Coverage includes: Learn how Nagios works, in depth Master focused, efficient techniques for configuring and deploying the latest versions of Nagios Solve real-world problems in monitoring Windows and UNIX systems, networking hardware, and environmental sensors Systematically scale and optimize Nagios for the largest enterprise environments Enhance your monitoring system with new tools including Check-MK, Op5 Merlin, and SFlow Integrate visualization via Ganglia, Graphite, and RRDTool Simplify and streamline all facets of system monitoring with Nagios XI Build powerful custom Nagios Event Broker (NEB) modules, step-by-step Learn about easy-to-understand code listings, fully updated for today's platforms No matter how complex your systems monitoring challenges are, this book will help you achieve the results you want—right from the start.

Learn how to take full advantage of Apache Kafka, the distributed, publish-subscribe queue for handling real-time data feeds. With this comprehensive book, you will understand how Kafka works and how it is designed. Authors Neha Narkhede, Gwen Shapira, and Todd Palino show you how to deploy production Kafka clusters; secure, tune, and monitor them; write rock-solid applications that use Kafka; and build scalable stream-processing applications. Learn how Kafka compares to other queues, and where it fits in the big data ecosystem. Dive into Kafka's internal designPick up best practices for developing applications that use Kafka. Understand the best way to deploy Kafka in production monitoring, tuning, and maintenance tasks. Learn how to secure a Kafka cluster.

Your one-stop reference for Windows Server 2019 and PowerShell know-how Windows Server 2019 & PowerShell All-in-One For Dummies offers a single reference to help you build and expand your knowledge of all things Windows Server, including the all-important PowerShell framework. Written by an information security pro and professor who trains aspiring system administrators, this book covers the broad range of topics a system administrator needs to know to run Windows Server 2019, including how to install, configure, and secure a system. This book includes coverage of: Installing & Setting Up Windows Server Configuring Windows Server 2019 Administering Windows Server 2019 Configuring Networking Managing Security Working with Windows PowerShell Installing and Administering Hyper-V Installing, Configuring, and Using Containers If you're a budding or experienced system administrator looking to build or expand your knowledge of Windows Server, this book has you covered.

The Debian Administrator's Handbook
HBase: The Definitive Guide
Random Access to Your Planet-Size Data
Linux Networking Cookbook
LPIC-2: Linux Professional Institute Certification Study Guide
CompTIA CySA+ Study Guide Exam CS0-002

This soup-to-nuts collection of recipes covers everything you need to know to perform your job as a Linux network administrator, whether you're new to the job or have years of experience. With Linux Networking Cookbook, you'll dive straight into the gnarly hands-on work of building and maintaining a computer network. Running a network doesn't mean you have all the answers. Networking is a complex subject with reams of reference material that's difficult to keep straight, much less remember. If you want a book that lays out the steps for specific tasks, that clearly explains the commands and configurations, and does not tax your patience with endless ramblings and meanderings into theory and obscure RFCs, this is the book for you. You will find recipes for: Building a gateway, firewall, and wireless access point on a Linux network Building a VoIP server with Asterisk Secure remote administration with SSH Building secure VPNs with OpenVPN, and a Linux PPTP VPN server Single sign-on with Samba for mixed Linux/Windows LANs Centralized network directory with OpenLDAP Network monitoring with Nagios or MRTG Getting acquainted with IPv6 Setting up hands-free networks installations of new systems Linux system administration via serial console And a lot more. Each recipe includes a clear, hands-on solution with tested code, plus a discussion on why it works. When you need to solve a network problem without delay, and don't have the time or patience to comb through reference books or the Web for answers, Linux Networking Cookbook gives you exactly what you need.

Good system administrators recognize problems long before anyone asks, "Hey, is the Internet down?" Nagios, an open source system and network monitoring tool, has emerged as the most popular solution for sys admins in organizations of all sizes. It's robust but also complex, and Nagios: System and Network Monitoring, 2nd Edition, updated to address Nagios 3.0, will help you take full advantage of this program. Nagios, which runs on Linux and most *nix variants, can be configured to continuously monitor network services such as SMTP, POP3, HTTP, NNTP, SSH, and FTP. It can also supervise host resources (processor load, disk and memory usage, running processes, log files, and so on) and environmental factors, such as temperature and humidity. This book is your guide to getting the most out of this versatile and powerful monitoring tool. Inside Nagios, you'll learn how to: –Install and configure the Nagios core, all standard plugins, and selected third-party plugins –Configure the notification system to alert you of ongoing problems—and to alarm others in case of a serious crisis –Program event handlers to take automatic action when trouble

occurs —Write Perl plugins to customize Nagios for your unique needs —Quickly understand your Nagios data using graphing and visualization tools —Monitor Windows servers, SAP systems, and Oracle databases The book also includes a chapter that highlights the differences between Nagios versions 2 and 3 and gives practical migration and compatibility tips. Nagios: System and Network Monitoring, 2nd Edition is a great starting point for configuring and using Nagios in your own environment.

Learn and monitor your entire IT infrastructure to ensure your systems, applications, services, and business function effectivelyAbout This Book*Packed with tips, tricks and illustrations, the book will explain the configuration and monitoring concepts in a simplified manner*Experience the scalability and flexibility of Nagios in a very practical and easy-to-understand approach.*Unleash the power of Nagios Core and Nagios XI 5 to monitor and secure your infrastructure with ease.Who This Book Is ForThis book is targeted at System Administrators, both, who have no prior knowledge of Nagios as well as readers experienced with it. It not only covers the basics of Nagios but also the advanced features.What You Will Learn*Set up and use the built-in Nagios web interface*Upskill the additional interfaces available for Nagios to monitor your IT infrastructure*Learn how to perform various checks using both, Nagios standard plugins and third-party plugins*Explore the working of notifications and events in Nagios*Familiarize yourself with SNMP and use it for monitoring devices such as routers, switches, modems and printers*Discover how can be Nagios can be customized and tailored to your needs*Get to know more about the entreprise version of Nagios, Nagios XIIn DetailNagios, a powerful and widely used IT monitoring and management software for problem -solving. It detects problems related to your organizations infrastructure and helps in resolving the issue before it impacts the business.Following the success of the previous edition, this book will continue to help you monitor the status of network devices and also notify the system administrators of network problems. Starting with the fundamentals, the book will teach you how to install and configure Nagios for your environment. The book helps you learn how to end downtimes, adding comments and generating reports using the built-in Web interface of Nagios. Moving on, you will be introduced to the third-party web interfaces and applications for checking the status and report specific information. As you progress further in Learning Nagios, you will focus on the standard set of Nagios plugins and also focus on teach you how to efficiently manage large configurations and using templates. Once you are up to speed with this, you will get to know the concept and working of notifications and events in Nagios. The book will then uncover the concept of passive check and shows how to use NRDP (Nagios Remote Data Processor). The focus then shifts to how Nagios checks can be run on remote machines and SNMP (Simple Network Management Protocol) can be used from Nagios. Lastly, the book will demonstrate how to extend Nagios by creating custom check commands, custom ways of notifying users and showing how passive checks and NRDP can be used to integrate your solutions with Nagios.By the end of the book, you will be a competent system administrator who could monitor mid-size businesses or even large scale enterprises.

Summary Solr in Action is a comprehensive guide to implementing scalable search using Apache Solr. This clearly written book walks you through well-documented examples ranging from basic keyword searching to scaling a system for billions of documents and queries. It will give you a deep understanding of how to implement core Solr capabilities. About the Book Whether you're handling big (or small) data, managing documents, or building a website, it is important to be able to quickly search through your content and discover meaning in it. Apache Solr is your tool: a ready-to-deploy, Lucene-based, open source, full-text search engine. Solr can scale across many servers to enable real-time queries and data analytics across billions of documents. Solr in Action teaches you to implement scalable search using Apache Solr. This easy-to-read guide balances conceptual discussions with practical examples to show you how to implement all of Solr's core capabilities. You'll master topics like text analysis, faceted search, hit highlighting, result grouping, query suggestions, multilingual search, advanced geospatial and data operations, and relevancy tuning. This book assumes basic knowledge of Java and standard database technology. No prior knowledge of Solr or Lucene is required. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside How to scale Solr for big data Rich real-world examples Solr as a NoSQL data store Advanced multilingual, data, and relevancy tricks Coverage of versions through Solr 4.7 About the Authors Trey Grainger is a director of engineering at CareerBuilder. Timothy Potter is a senior member of the engineering team at LucidWorks. The authors work on the scalabiluty and reliability of Solr, as well as on recommendation engine and big data analytics technologies. Table of Contents PART 1 MEET SOLR

Introduction to Solr Getting to know Solr Key Solr concepts Configuring Solr Indexing Text analysis PART 2 CORE SOLR CAPABILITIES
Performing queries and handling results Faceted search Hit highlighting Query suggestions Result grouping/field collapsing Taking
Solr to production PART 3 TAKING SOLR TO THE NEXT LEVEL SolrCloud Multilingual search Complex query operations Mastering relevancy
Nagios
Exam CS0-002
Building Enterprise-Grade Monitoring Infrastructures for Systems and Networks
Pro Nagios 2.0
Designing and Operating Resilient Database Systems
A complete guide to dealing with Big Data using MongoDB

LPIC-2 Cert Guide (201-400 and 202-400 Exams) is a best-of-breed exam study guide. Expert Linux/Unix instructor William "Bo" Rothwell shares 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. You get access to the powerful Pearson IT Certification Practice Test engine, complete with hundreds of exam-realistic questions. The assessment engine offers you a wealth of customization options and reporting features, laying out a complete assessment of your knowledge to help you focus your study where it is needed most. 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 allow you to succeed on the exam the first time. The study guide helps you master all the topics on both LPIC-2 exams, including: Capacity planning Managing the kernel Managing system startup Managing filesystems and devices Administering advanced storage devices Configuring the network Performing system maintenance Administering Domain Name Server (DNS) Configuring web services Administering file sharing Managing network clients Administering e-mail services Administering system security Learn, prepare, and practice for LPIC-2 201-400 and 202-400 exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification. Master LPIC-2 Exam 201-400 and 202-400 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions

Every enterprise application creates data, whether it consists of log messages, metrics, user activity, or outgoing messages. Moving all this data is just as important as the data itself. With this updated edition, application architects, developers, and production engineers new to the Kafka streaming platform will learn how to handle data in motion. Additional chapters cover Kafka's AdminClient API, transactions, new security features, and tooling changes. Engineers from Confluent and LinkedIn responsible for developing Kafka explain how to deploy production Kafka clusters, write reliable event-driven microservices, and build scalable stream processing applications with this platform. Through detailed examples, you'll learn Kafka's design principles, reliability guarantees, key APIs, and architecture details, including the replication protocol, the controller, and the storage layer. You'll examine: Best practices for deploying and configuring Kafka Kafka producers and consumers for writing and reading messages Patterns and use-case requirements to ensure reliable data delivery Best practices for building data pipelines and applications with Kafka How to perform monitoring, tuning, and maintenance tasks with Kafka in production The most critical metrics among Kafka's operational measurements Kafka's delivery capabilities for stream processing systems

This IBM Redbooks publication describes how to implement an Open Platform for Database as a Service (DBaaS) on IBM Power Systems environment for Linux, and demonstrate the open source tools, optimization and best practices guidelines for it. Open Platform for DBaaS on Power Systems is an on-demand, secure, and scalable self-service database platform that automates provisioning and administration of databases to support new business applications and information insights. This publication addresses topics to help sellers, architects, brand specialists, distributors, resellers and anyone offering secure and scalable Open Platform for DBaaS on Power Systems solution with APIs that are consistent across heterogeneous open database types. An Open Platform for DBaaS on Power Systems solution has the capability to accelerate business success by providing an infrastructure, and tools leveraging Open Source and OpenStack software engineered to optimize hardware and software between workloads and resources so you have a responsive, and an adaptive environment. Moreover, this publication provides documentation to transfer the how-to-skills for cloud oriented operational management of Open Platform for DBaaS on Power Systems service and underlying infrastructure to the technical teams. Open Platform for DBaaS on Power Systems mission is to provide scalable and reliable cloud database as a service provisioning functionality for both relational and non-relational database engines, and to continue to improve its fully-featured and extensible open source framework. For example, Trove is a database as a service for OpenStack. It is designed to run entirely on OpenStack, with the goal of allowing users to quickly and easily utilize the features of a relational or non-relational database without the burden of handling complex administrative tasks. Cloud users and database administrators can provision and manage multiple database instances as needed. Initially, the service focuses on providing resource isolation at high performance while automating complex administrative tasks including deployment, configuration, patching, backups, restores, and monitoring. In the context of this publication, the monitoring tool implemented is Nagios Core which is an open source monitoring tool. Hence, when you see a reference of Nagios in this book, Nagios Core is the open source monitoring solution implemented. Also note that the implementation of Open Platform for DBaaS on IBM Power Systems is based on open source solutions. This book is targeted toward sellers, architects, brand specialists, distributors, resellers and anyone developing

and implementing Open Platform for DBaaS on Power Systems solutions.

This updated study guide by two security experts will help you prepare for the CompTIA CySA+ certification exam. Position yourself for success with coverage of crucial security topics! Where can you find 100% coverage of the revised CompTIA Cybersecurity Analyst+ (CySA+) exam objectives? It's all in the CompTIA CySA+ Study Guide Exam CS0-002, Second Edition! This guide provides clear and concise information on crucial security topics. You'll be able to gain insight from practical, real-world examples, plus chapter reviews and exam highlights. Turn to this comprehensive resource to gain authoritative coverage of a range of security subject areas. Review threat and vulnerability management topics Expand your knowledge of software and systems security Gain greater understanding of security operations and monitoring Study incident response information Get guidance on compliance and assessment The CompTIA CySA+ Study Guide, Second Edition connects you to useful study tools that help you prepare for the exam. Gain confidence by using its interactive online test bank with hundreds of bonus practice questions, electronic flashcards, and a searchable glossary of key cybersecurity terms. You also get access to hands-on labs and have the opportunity to create a cybersecurity toolkit. Leading security experts, Mike Chapple and David Seidl, wrote this valuable guide to help you prepare to be CompTIA Security+ certified. If you're an IT professional who has earned your CompTIA Security+ certification, success on the CySA+ (Cybersecurity Analyst) exam stands as an impressive addition to your professional credentials. Preparing and taking the CS0-002exam can also help you plan for advanced certifications, such as the CompTIA Advanced Security Practitioner (CASP+).

System and Network Monitoring

Learning Nagios

Learning Nagios - Third Edition

Prometheus: Up & Running

Windows Server 2019 & PowerShell All-in-One For Dummies

The Definitive Guide to MongoDB

LPIC-2: Linux Professional Institute Certification Study GuideExam 201 and Exam 202John Wiley & Sons

Summary Hadoop in Practice, Second Edition provides over 100 tested, instantly useful techniques that will help you conquer big data, using Hadoop. This revised new edition covers changes and new features in the Hadoop core architecture, including MapReduce 2. Brand new chapters cover YARN and integrating Kafka, Impala, and Spark SQL with Hadoop. You'll also get new and updated techniques for Flume, Sqoop, and Mahout, all of which have seen major new versions recently. In short, this is the most practical, up-to-date coverage of Hadoop available anywhere. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book It's always a good time to upgrade your Hadoop skills! Hadoop in Practice, Second Edition provides a collection of 104 tested, instantly useful techniques for analyzing real-time streams, moving data securely, machine learning, managing large-scale clusters, and taming big data using Hadoop. This completely revised edition covers changes and new features in Hadoop core, including MapReduce 2 and YARN. You'll pick up hands-on best practices for integrating Spark, Kafka, and Impala with Hadoop, and get new and updated techniques for the latest versions of Flume, Sqoop, and Mahout. In short, this is the most practical, up-to-date coverage of Hadoop available. Readers need to know a programming language like Java and have basic familiarity with Hadoop. What's Inside Thoroughly updated for Hadoop 2 How to write YARN applications Integrate real-time technologies like Storm, Impala, and Spark Predictive analytics using Mahout and RR Readers need to know a programming language like Java and have basic familiarity with Hadoop. About the Author Alex Holmes works on tough big-data problems. He is a software engineer, author, speaker, and blogger specializing in large-scale Hadoop projects. Table of Contents PART 1 BACKGROUND AND FUNDAMENTALS Hadoop in a heartbeat Introduction to YARN PART 2 DATA LOGISTICS Data serialization—working with text and beyond Organizing and optimizing data in HDFS Moving data into and out of Hadoop PART 3 BIG DATA PATTERNS Applying MapReduce patterns to big data Utilizing data structures and algorithms at scale Tuning, debugging, and testing PART 4 BEYOND MAPREDUCE SQL on Hadoop Writing a YARN application

Microservices is an architectural style in which large, complex software applications are composed of one or more smaller services. Each of these microservices focuses on completing one task that represents a small business capability. These microservices can be developed in any programming language. This IBM® Redbooks® publication covers Microservices best practices for Java. It focuses on creating cloud native applications using the latest version of IBM WebSphere® Application Server Liberty, IBM Bluemix® and other Open Source Frameworks in the Microservices ecosystem to highlight Microservices best practices for Java.

The complete reference guide to the hot technology of cloud computing Its potential for lowering IT costs makes cloud computing a major force for both IT vendors and users; it is expected to gain momentum rapidly with the launch of Office Web Apps later this year. Because cloud computing involves various technologies, protocols, platforms, and infrastructure elements, this comprehensive reference is just what you need if you?ll be using or implementing cloud computing. Cloud computing offers significant cost savings by eliminating upfront expenses for hardware and software; its growing popularity is expected to skyrocket when Microsoft introduces Office Web Apps This comprehensive guide helps define what cloud computing is and thoroughly explores the technologies, protocols, platforms and infrastructure that make it so desirable Covers mobile cloud computing, a significant area due to ever-increasing cell phone and smartphone use Focuses on the platforms and technologies essential to cloud computing Anyone involved with planning, implementing, using, or maintaining a cloud computing project will rely on the information in Cloud Computing Bible.

Kafka: The Definitive Guide

CompTIA CySA+ Study Guide with Online Labs

(201-400 and 202-400 exams)

Cloud Computing Bible

Using Wireshark to Solve Real-world Network Problems

Database Reliability Engineering

If your organization is looking for a storage solution to accommodate a virtually endless amount of data, this book will show you how Apache HBase can fulfill your needs. As the op Google's BigTable architecture, HBase scales to billions of rows and millions of columns, while ensuring that write and read performance remain constant.HBase: The Definitive Guide

require, whether you simply want to evaluate this high-performance, non-relational database, or put it into practice right away. HBase's adoption rate is beginning to climb, and seve pointed questions about this high-capacity database. This is the only book available to give you meaningful answers. Learn how to distribute large datasets across an inexpensive clu Develop HBase clients in many programming languages, including Java, Python, and Ruby Get details on HBase's primary storage system, HDFS—Hadoop's distributed and replicated fi HBase's native interface to Hadoop's MapReduce framework enables easy development and execution of batch jobs that can scan entire tables Discover the integration between HB Apache Hadoop project

Learn and monitor your entire IT infrastructure to ensure your systems, applications, services, and business function effectively. About This Book Packed with tips, tricks and illustra the configuration and monitoring concepts in a simplified manner Experience the scalability and flexibility of Nagios in a very practical and easy-to-understand approach. Unleash the Nagios XI 5 to monitor and secure your infrastructure with ease. Who This Book Is For This book is targeted at System Administrators, both, who have no prior knowledge of Nagios experienced with it. It not only covers the basics of Nagios but also the advanced features. What You Will Learn Set up and use the built-in Nagios web interface Upskill the addition Nagios to monitor your IT infrastructure Learn how to perform various checks using both, Nagios standard plugins and third-party plugins Explore the working of notifications and e yourself with SNMP and use it for monitoring devices such as routers, switches, modems and printers Discover how can be Nagios can be customized and tailored to your needs Ge entreprise version of Nagios, Nagios XI In Detail Nagios, a powerful and widely used IT monitoring and management software for problem -solving. It detects problems related to you infrastructure and helps in resolving the issue before it impacts the business. Following the success of the previous edition, this book will continue to help you monitor the status notify the system administrators of network problems. Starting with the fundamentals, the book will teach you how to install and configure Nagios for your environment. The book downtimes, adding comments and generating reports using the built-in Web interface of Nagios. Moving on, you will be introduced to the third-party web interfaces and applications report specific information. As you progress further in Learning Nagios, you will focus on the standard set of Nagios plugins and also focus on teach you how to efficiently manage templates. Once you are up to speed with this, you will get to know the concept and working of notifications and events in Nagios. The book will then uncover the concept of passi NRDP (Nagios Remote Data Processor). The focus then shifts to how Nagios checks can be run on remote machines and SNMP (Simple Network Management Protocol) can be used book will demonstrate how to extend Nagios by creating custom check commands, custom ways of notifying users and showing how passive checks and NRDP can be used to integ By the end of the book, you will be a competent system administrator who could monitor mid-size businesses or even large scale enterprises. Style and approach This will be a practi administrators which will teach them everything about Nagios along with implementing it for your organization and then ending with securing it.

Among the many configuration management tools available, Ansible has some distinct advantages—it's minimal in nature, you don't need to install anything on your nodes, and it has This practical guide shows you how to be productive with this tool quickly, whether you're a developer deploying code to production or a system administrator looking for a better Lorin Hochstein shows you how to write playbooks (Ansible's configuration management scripts), manage remote servers, and explore the tool's real power: built-in declarative modu Ansible has the functionality you need and the simplicity you desire. Understand how Ansible differs from other configuration management systems Use the YAML file format to writ Ansible's support for variables and facts Work with a complete example to deploy a non-trivial application Use roles to simplify and reuse playbooks Make playbooks run faster with and parallelism Deploy applications to Amazon EC2 and other cloud platforms Use Ansible to create Docker images and deploy Docker containers

This IBM® Platform Computing Solutions Redbooks® publication is the first book to describe each of the available offerings that are part of the IBM portfolio of Cloud, analytics, an Computing (HPC) solutions for our clients. This IBM Redbooks publication delivers descriptions of the available offerings from IBM Platform Computing that address challenges for o We include a few implementation and testing scenarios with selected solutions. This publication helps strengthen the position of IBM Platform Computing solutions with a well-defin deployment model within an IBM System x® environment. This deployment model offers clients a planned foundation for dynamic cloud infrastructure, provisioning, large-scale paralle development, cluster management, and grid applications. This IBM publication is targeted to IT specialists, IT architects, support personnel, and clients. This book is intended for anyo about how IBM Platform Computing solutions use IBM to provide a wide array of client solutions.

Microservices Best Practices for Java

Cloud Security and Privacy
CompTIA CySA+ Cybersecurity Analyst Certification Bundle (Exam CSO-OO1)
Infrastructure and Application Performance Monitoring
HBase

Real-world configurations and supporting materials enable you to deploy Nagios and integrate other tools on a step-by-step basis Simplifies deployment and installation by providing examples of re situations and explains how to configure, architect, and deploy EM solutions to address these situations Shows how to create your own Nagios plug-ins, to monitor devices for which Nagios doe Over 90 hands-on recipes that will employ Nagios Core as the anchor of monitoring on your network About This Book Master the advanced configuration techniques of Nagios Core to model your improving hosts, services, and contacts Filter and improve the notifications that Nagios Core sends in response to failed checks, which can greatly assist you when diagnosing problems Pull Nagios database to write clever custom reports of your own devise Who This Book Is For If you are a network or system administrator and are looking for instructions and examples on working with Nag for you. Some basic shell command-line experience is required, and some knowledge of scripting would be helpful when we discuss how plugins work. What You Will Learn Manage the configuration advanced techniques to achieve fine detail in your checks Find, install, and even write your own check plugins Filter notifications to send them to the right people or programs at the right time W network accessibility issues and delegate checks to other machines Tweak a Nagios Core server to achieve both high performance and redundancy in case of disaster Process the results of check

machines to monitor backups and similar processes Extend Nagios Core to allow advanced scripting, reporting, and network visualization behavior In Detail Nagios Core is an open source monitoring for any network that ensures both internal and customer-facing services are running correctly and manages notification and reporting behavior to diagnose and fix outages promptly. It allows very exactly when, where, what, and how to check network services to meet both the uptime goals of your network and systems team and the needs of your users. This book shows system and netw Nagios Core to its fullest as a monitoring framework for checks on any kind of network services, from the smallest home network to much larger production multi-site services. You will discover t of doing much more than pinging a host or to see whether websites respond. The recipes in this book will demonstrate how to leverage Nagios Core's advanced configuration, scripting hooks, rep extensibility to integrate it with your existing systems, and to make it the rock-solid center of your network monitoring world. Style and approach Each chapter contains a set of step-by-step rec a commonly performed task related to network administration. The book begins by focusing closely on the properties and configuration of Nagios Core itself, and gradually moves on to other piece support, manage, and extend the system.

Every enterprise application creates data, whether it's log messages, metrics, user activity, outgoing messages, or something else. And how to move all of this data becomes nearly as important as application architect, developer, or production engineer new to Apache Kafka, this practical guide shows you how to use this open source streaming platform to handle real-time data feeds. Engine LinkedIn who are responsible for developing Kafka explain how to deploy production Kafka clusters, write reliable event-driven microservices, and build scalable stream-processing applications with detailed examples, you'll learn Kafka's design principles, reliability guarantees, key APIs, and architecture details, including the replication protocol, the controller, and the storage layer. Understand p messaging and how it fits in the big data ecosystem. Explore Kafka producers and consumers for writing and reading messages Understand Kafka patterns and use-case requirements to ensure re practices for building data pipelines and applications with Kafka Manage Kafka in production, and learn to perform monitoring, tuning, and maintenance tasks Learn the most critical metrics among measurements Explore how Kafka's stream delivery capabilities make it a perfect source for stream processing systems

Microservices is an architectural style in which large, complex software applications are composed of one or more smaller services. Each of these microservices focuses on completing one task th business capability. These microservices can be developed in any programming language. They communicate with each other using language-neutral protocols, such as Representational State Trans messaging applications, such as IBM® MQ Light. This IBM Redbooks® publication gives a broad understanding of this increasingly popular architectural style, and provides some real-life examples o develop applications using the microservices approach with IBM BluemixTM. The source code for all of these sample scenarios can be found on GitHub (https://github.com/). The book also present IBM products. We explain the architectural decisions made, our experiences, and lessons learned when redesigning these products using the microservices approach. Information technology (IT) pro learning about microservices and how to develop or redesign an application in Bluemix using microservices can benefit from this book.

LPIC-2 Cert Guide
A Practical Guide to Bandwidth Management and Optimisation Using Open Source Software
A performance engineer's guide to the continuous testing and monitoring of microservices
Set Up and Manage Your OpenStack Cloud