Learning Nagios 3 0 Kocjan Wojciech

Learning iOS ForensicsPro Nagios 2.0Python 2 and 3 CompatibilityIOS and MacOS Performance TuningT-SQL FundamentalsMicrosoft SQL Server 2016: A Beginner's Guide, Sixth EditionBuilding a Monitoring Infrastructure with NagiosNagios Core Administration CookbookNagios 3 Enterprise Network MonitoringLinux Administration: A Beginner's Guide, Seventh EditionInstant Nagios StarterPractical DevOpsIntroductory Readings in Ancient Greek and Roman PhilosophyExam Ref 70-761 Querying Data with Transact-SQLMastering C++ MultithreadingHTTPC Pocket ReferenceVagrant: Up and RunningMastering Linux Kernel DevelopmentPython Programming On Win32FreeRADIUS Beginner's GuideApache Hive EssentialsLearning Nagios 3.0Learning iOS Penetration TestingLearning IOS SecurityMind MattersSQL Server 2017 Administration Inside OutIOS 12 Programming for Beginners -Third EditionC++ Programming in Easy StepsNagios, 2nd EditionLearning Nagios 4CentOS 7 Linux Server CookbookTcl 8.5 Network ProgrammingSQL Server 2017 Developer's GuideA Guide to the Business Analysis Body of KnowledgerVagrant Virtual Development Environment CookbookLearning NagiosiOS 13 Programming for BeginnersPenetration Testing with ShellcodeMurach's Java Programming

Learning iOS Forensics

Based on a symposium honoring the extensive work of Allen Newell -- one of the founders of artificial intelligence, cognitive science, human-computer interaction, and the systematic study of computational architectures -- this volume demonstrates how unifying themes may be found in the diversity that characterizes current research on computers and cognition. The subject matter includes: * an overview of cognitive and computer science by leading researchers in the field; * a comprehensive description of Allen Newell's "Soar" -- a computational architecture he developed as a unified theory of cognition; * commentary on how the Soar theory of cognition relates to important issues in cognitive and computer science; * rigorous treatments of controversial issues in cognition -- methodology of cognitive science, hybrid approaches to machine learning, word-sense disambiguation in understanding material language, and the role of capability processing constraints in architectural theory; * comprehensive and systematic methods for studying architectural evolution in both hardware and software; * a thorough discussion of the use of analytic models in human computer interaction; * extensive reviews of important experiments in the study of scientific discovery and deduction; and * an updated analysis of the role of symbols in information processing by Herbert Simon. Incorporating the research of top scientists inspired by Newell's work, this volume will be of strong interest to a large variety of scientific communities including psychologists, computational linguists, computer scientists and engineers, and interface designers. It will also be valuable to those who study the scientific process itself, as it chronicles the impact of Newell's approach to research, simultaneously delving into each scientific discipline and producing results that transcend the boundaries of those disciplines.

Pro Nagios 2.0

Discover clean ways to write code that will run on both Python 2 and 3.This book is tutorial-oriented with detailed examples of how to convert existing Python 2-compatible code to code that will run reliably on both Python 2 and 3. Although Python 3 is considered the future of Python, Python 2.x will be maintained for several more years, alongside Python 3, which is not backwards compatible. For those who need to support both versions, this book guides you through the process. Python 2 and 3 Compatibility explains the syntactical differences between Python 2 and 3, and how to use Python packages Python-Future and Six to implement neutral compatibility. Developers working on either small, medium, or large projects will appreciate the author's clear explanations, detailed examples, and clean techniques to help them extend support for both versions to their existing Python 2-compatible projects. What You'll Learn Understand the syntactical differences between Python 2 and 3 Use the Six and Future libraries Review the new features in Python 3 Choose which Python versions to support when doing neutral support Decide on whether to port or provide support for both versions Who This Book Is For Professional Python developers and enthusiasts that want to implement Python 3 support for their existing Python 2 compatible code.

Python 2 and 3 Compatibility

A demonstration of Python's basic technologies showcases the programming language's possiblities as a Windows development and administration tool.

IOS and MacOS Performance Tuning

Over 80 recipes to get up and running with CentOS 7 Linux server About This Book A practical guide to install, configure, administer and maintain CentOS 7 servers An in-depth guide to the CentOS 7 operating system, exploring its various new features and changes in server administration Presents tricks and solutions to tackle common server issues with the help of practical examples and real-life scenarios Who This Book Is For This book is targeted at beginner and more experienced system administrators alike who want to use CentOS as their server solution. Readers do not need much pre-knowledge or experience at all to work with this book. What You Will Learn Install and configure CentOS 7 Linux server system from scratch using normal and advanced methods Maintain a performance-based and secure server solution by deploying expert configuration advice and managing software packages Monitor, manage and develop your server's file system to maintain a stable performance Gain best practice methods on sharing files and resources through a network Install and configure common standard services such as web, mail, FTP, database and domain name server technologies Introduce you to the world of operating-system-level virtualization using the Docker platform. Understand the fundamentals of the Security-

Enhanced Linux access control architecture Monitor your IT infrastructure using Nagios In Detail This book will provide you with a comprehensive series of starting points that will give you direct access to the inner workings of the latest CentOS version 7 and help you trim the learning curve to master your server. You will begin with the installation and basic configuration of CentOS 7, followed by learning how to manage your system, services and software packages. You will then gain an understanding of how to administer the file system, secure access to your server and configure various resource sharing services such as file, printer and DHCP servers across your network. Further on, we cover advanced topics such as FTP services, building your own DNS server, running database servers, and providing mail and web services. Finally, you will get a deep understanding of SELinux and you will learn how to work with Docker operating-system virtualization and how to monitor your IT infrastructure with Nagios. By the end of this book, you will have a fair understanding of all the aspects of configuring, implementing and administering CentOS 7 Linux server and how to put it in control. Style and approach This book is a practical reference guide with hands-on examples and solutions to real-world administration problems. It covers in-depth and comprehensive information on CentOS 7 and its new features.

T-SQL Fundamentals

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 real-world monitoring 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 doesn't provide plug-ins

Microsoft SQL Server 2016: A Beginner's Guide, Sixth Edition

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 network better by 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 Core's data into a 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 Nagios Core, then this book is 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 of Nagios Core with 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 Work around difficult 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 checks performed by other 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 framework suitable 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 fine configuration of 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 network administrators how to use 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 that Nagios Core is capable 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, reports, data retrieval, and 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 recipes to perform an example of 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 pieces of software that can support, manage, and extend the system.

Building a Monitoring Infrastructure with Nagios

Discover why Vagrant is a must-have tool for thousands of developers and ops engineers. This hands-on guide shows you how to use this open source software to build a virtual machine for any purpose—including a completely sandboxed, fully provisioned development environment right on your desktop. Vagrant creator Mitchell Hashimoto shows you how to share a virtual machine image with members of your team, set up a separate virtualization for each project, and package virtual machines for use by others. This book covers the V1 (1.0.x) configuration syntax running on top of a V2 (1.1+) core, the most stable configuration format running on the latest core. Build a simple virtual machine with just two commands and no configuration Create a development environment that closely resembles production Automate software installation and management with shell scripts, Chef, or Puppet Set up a network interface to access your virtual machine from any computer Use your own editor and browser to develop and test your applications Test complicated multi-machine clusters with a single Vagrantfile Change Vagrant's default operating system to match your production OS Extend Vagrant features with plugins, including components you build yourself

Nagios Core Administration Cookbook

C++ Programming in easy steps instructs the reader how to program in C++ both on Windows platforms and on Unix-based platforms, such as Linux. It contains separate chapters on the major features of the C++ language. There are complete example programs that illustrate each aspect of C++. C++ Programming in easy steps begins by explaining how to

download and install a free C++ compiler so that the reader can quickly begin to create their own executable programs by copying the book's examples. This book makes no assumption that the reader will have previous knowledge of any programming language so it's ideal for the newcomer to computer programming. Each chapter builds the reader's knowledge of C++. By the end of this book the reader will have gained a sound understanding of the C++ language and be able to write their own C++ programs and compile them into executable files that can be run on any compatible computer.· Introducing C ++· Storing Data· Performing Operations· Making Statements· Working with strings· Reading and writing files· Using Functions· Creating Classes and Objects· Pointing to Data· Referencing Data· Inheriting Features· Harnessing Polymorphism· Processing Macros· Handling Exceptions· Moving On

Nagios 3 Enterprise Network Monitoring

Build network-aware applications using Tcl, a powerful dynamic programming language.

Linux Administration: A Beginner's Guide, Seventh Edition

Manage your network resources with FreeRADIUS by mastering authentication, authorization and accounting.

Instant Nagios Starter

Harness the power of DevOps to boost your skill set and make your IT organization perform better About This Book Get to know the background of DevOps so you understand the collaboration between different aspects of an IT organization and a software developer Improve your organization's performance to ensure smooth production of software and services Deploy top-quality software and ensure software maintenance and release management with this practical guide Who This Book Is For This book is aimed at developers and system administrators who wish to take on larger responsibilities and understand how the infrastructure that builds today's enterprises works. This book is also great for operations personnel who would like to better support developers. You do not need to have any previous knowledge of DevOps. What You Will Learn Appreciate the merits of DevOps and continuous delivery and see how DevOps supports the agile process Understand how all the systems fit together to form a larger whole Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application that is suitable for continuous deployment systems with Devops in mind Store and manage your code effectively using different options such as Git, Gerrit, and Gitlab Configure a job to build a sample CRUD application Test the code using automated regression testing with Jenkins Selenium Deploy your code using tools such as Puppet, Ansible, Palletops, Chef, and Vagrant Monitor the health of your code with Nagios, Munin, and Graphite Explore the workings of Trac—a tool used for issue tracking In Detail DevOps is a practical field that focuses on delivering business

value as efficiently as possible. DevOps encompasses all the flows from code through testing environments to production environments. It stresses the cooperation between different roles, and how they can work together more closely, as the roots of the word imply—Development and Operations. After a quick refresher to DevOps and continuous delivery, we quickly move on to looking at how DevOps affects architecture. You'll create a sample enterprise Java application that you'll continue to work with through the remaining chapters. Following this, we explore various code storage and build server options. You will then learn how to perform code testing with a few tools and deploy your test successfully. Next, you will learn how to monitor code for any anomalies and make sure it's running properly. Finally, you will discover how to handle logs and keep track of the issues that affect processes Style and approach This book is primarily a technical guide to DevOps with practical examples suitable for people who like to learn by implementing concrete working code. It starts out with background information and gradually delves deeper into technical subjects.

Practical DevOps

Covers topics including HTTP methods and status codes, optimizing proxies, designing web crawlers, content negotiation, and load-balancing strategies.

Introductory Readings in Ancient Greek and Roman Philosophy

Explore Implementation of core kernel subsystems About This Book Master the design, components, and structures of core kernel subsystems Explore kernel programming interfaces and related algorithms under the hood Completely updated material for the 4.12.10 kernel Who This Book Is For If you are a kernel programmer with a knowledge of kernel APIs and are looking to build a comprehensive understanding, and eager to explore the implementation, of kernel subsystems, this book is for you. It sets out to unravel the underlying details of kernel APIs and data structures, piercing through the complex kernel layers and gives you the edge you need to take your skills to the next level. What You Will Learn Comprehend processes and fles—the core abstraction mechanisms of the Linux kernel that promote effective simplification and dynamism Decipher process scheduling and understand effective capacity utilization under general and real-time dispositions Simplify and learn more about process communication techniques through signals and IPC mechanisms Capture the rudiments of memory by grasping the key concepts and principles of physical and virtual memory management Take a sharp and precise look at all the key aspects of interrupt management and the clock subsystem Understand concurrent execution on SMP platforms through kernel synchronization and locking techniques In Detail Mastering Linux Kernel Development looks at the Linux kernel, its internal arrangement and design, and various core subsystems, helping you to gain significant understanding of this open source marvel. You will look at how the Linux kernel, which possesses a kind of collective intelligence thanks to its scores of contributors, remains so elegant owing to its great design. This book

also looks at all the key kernel code, core data structures, functions, and macros, giving you a comprehensive foundation of the implementation details of the kernel's core services and mechanisms. You will also look at the Linux kernel as well-designed software, which gives us insights into software design in general that are easily scalable yet fundamentally strong and safe. By the end of this book, you will have considerable understanding of and appreciation for the Linux kernel. Style and approach Each chapter begins with the basic conceptual know-how for a subsystem and extends into the details of its implementation. We use appropriate code excerpts of critical routines and data structures for subsystems.

Exam Ref 70-761 Querying Data with Transact-SQL

Conquer SQL Server 2017 administration—from the inside out Dive into SQL Server 2017 administration—and really put your SQL Server DBA expertise to work. This supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, manage, and secure SQL Server 2017 in any production environment: on-premises, cloud, or hybrid. Four SQL Server experts offer a complete tour of DBA capabilities available in SQL Server 2017 Database Engine, SQL Server Data Tools, SQL Server Management Studio, and via PowerShell. Discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery. • Install, customize, and use SQL Server 2017's key administration and development tools • Manage memory, storage, clustering, virtualization, and other components • Architect and implement database infrastructure, including IaaS, Azure SQL, and hybrid cloud configurations • Provision SQL Server and Azure SQL databases • Secure SQL Server via encryption, row-level security, and data masking • Safeguard Azure SQL databases using platform threat protection, firewalling, and auditing • Establish SQL Server IaaS network security groups and user-defined routes • Administer SQL Server user security and permissions • Efficiently design tables using keys, data types, columns, partitioning, and views • Utilize BLOBs and external, temporal, and memory-optimized tables • Master powerful optimization techniques involving concurrency, indexing, parallelism, and execution plans • Plan, deploy, and perform disaster recovery in traditional, cloud, and hybrid environments For Experienced SQL Server Administrators and Other Database Professionals • Your role: Intermediate-to-advanced level SQL Server database administrator, architect, developer, or performance tuning expert • Prerequisites: Basic understanding of database administration procedures

Mastering C++ Multithreading

Secure your iOS applications and uncover hidden vulnerabilities by conducting penetration tests About This Book Achieve your goal to secure iOS devices and applications with the help of this fast paced manual Find vulnerabilities in your iOS applications and fix them with the help of this example-driven guide Acquire the key skills that will easily help you to perform iOS exploitation and forensics with greater confidence and a stronger understanding Who This Book Is For This

book is for IT security professionals who want to conduct security testing of applications. This book will give you exposure to diverse tools to perform penetration testing. This book will also appeal to iOS developers who would like to secure their applications, as well as security professionals. It is easy to follow for anyone without experience of iOS pentesting. What You Will Learn Understand the basics of iOS app development, deployment, security architecture, application signing, application sandboxing, and OWASP TOP 10 for mobile Set up your lab for iOS app pentesting and identify sensitive information stored locally Perform traffic analysis of iOS devices and catch sensitive data being leaked by side channels Modify an application's behavior using runtime analysis Analyze an application's binary for security protection Acquire the knowledge required for exploiting iOS devices Learn the basics of iOS forensics In Detail iOS has become one of the most popular mobile operating systems with more than 1.4 million apps available in the iOS App Store. Some security weaknesses in any of these applications or on the system could mean that an attacker can get access to the device and retrieve sensitive information. This book will show you how to conduct a wide range of penetration tests on iOS devices to uncover vulnerabilities and strengthen the system from attacks. Learning iOS Penetration Testing discusses the common vulnerabilities and security-related shortcomings in an iOS application and operating system, and will teach you to conduct static and dynamic analysis of iOS applications. This practical guide will help you uncover vulnerabilities in iOS phones and applications. We begin with basics of iOS security and dig deep to learn about traffic analysis, code analysis, and various other techniques. Later, we discuss the various utilities, and the process of reversing and auditing. Style and approach This fast-paced and practical guide takes a step-by-step approach to penetration testing with the goal of helping you secure your iOS devices and apps quickly.

HTTP

Build real-world, end-to-end network monitoring solutions with Nagios This is the definitive guide to building low-cost, enterprise-strength monitoring infrastructures with Nagios, the world's leading open source monitoring tool. Network monitoring specialist David Josephsen goes far beyond the basics, demonstrating how to use third-party tools and plug-ins to solve the specific problems in your unique environment. Josephsen introduces Nagios "from the ground up," showing how to plan for success and leverage today's most valuable monitoring best practices. Then, using practical examples, real directives, and working code, Josephsen presents detailed monitoring solutions for Windows, Unix, Linux, network equipment, and other platforms and devices. You'll find thorough discussions of advanced topics, including the use of data visualization to solve complex monitoring problems. This is also the first Nagios book with comprehensive coverage of using Nagios Event Broker to transform and extend Nagios. Understand how Nagios works, in depth: the host and service paradigm, plug-ins, scheduling, and notification Configure Nagios successfully: config files, templates, timeperiods, contacts, hosts, services, escalations, dependencies, and more Streamline deployment with scripting templates, automated discovery, and Nagios GUI tools Use plug-ins and tools to systematically monitor the devices and platforms you need to

monitor, the way you need to monitor them Establish front-ends, visual dashboards, and management interfaces with MRTG and RRDTool Build new C-based Nagios Event Broker (NEB) modules, one step at a time Contains easy-to-understand code listings in Unix shell, C, and Perl If you're responsible for systems monitoring infrastructure in any organization, large or small, this book will help you achieve the results you want–right from the start. David Josephsen is Senior Systems Engineer at DBG, Inc., where he maintains a collection of geographically dispersed server farms. He has more than a decade of hands-on experience with Unix systems, routers, firewalls, and load balancers in support of complex, high-volume networks. Josephsen's certifications include CISSP, CCNA, CCDA, and MCSE. His co-authored work on Bayesian spam filtering earned a Best Paper award at USENIX LISA 2004. He has been published in both ;login and Sysadmin magazines on topics relating to security, systems monitoring, and spam mitigation. Introduction CHAPTER 1 Best Practices CHAPTER 2 Theory of Operations CHAPTER 3 Installing Nagios CHAPTER 4 Configuring Nagios CHAPTER 5 Bootstrapping the Configs CHAPTER 6 Watching CHAPTER 7 Visualization CHAPTER 8 Nagios Event Broker Interface APPENDIX A Configure Options APPENDIX B nagios.cfg and cgi.cfg APPENDIX C Command-Line Options Index

C Pocket Reference

If you are a data analyst, developer, or simply someone who wants to use Hive to explore and analyze data in Hadoop, this is the book for you. Whether you are new to big data or an expert, with this book, you will be able to master both the basic and the advanced features of Hive. Since Hive is an SQL-like language, some previous experience with the SQL language and databases is useful to have a better understanding of this book.

Vagrant: Up and Running

Master multithreading and concurrent processing with C++ About This Book Delve into the fundamentals of multithreading and concurrency and find out how to implement them Explore atomic operations to optimize code performance Apply concurrency to both distributed computing and GPGPU processing Who This Book Is For This book is for intermediate C++ developers who wish to extend their knowledge of multithreading and concurrent processing. You should have basic experience with multithreading and be comfortable using C++ development toolchains on the command line. What You Will Learn Deep dive into the details of the how various operating systems currently implement multithreading Choose the best multithreading APIs when designing a new application Explore the use of mutexes, spin-locks, and other synchronization concepts and see how to safely pass data between threads Understand the level of API support provided by various C++ toolchains Resolve common issues in multithreaded code and recognize common pitfalls using tools such as Memcheck, CacheGrind, DRD, Helgrind, and more Discover the nature of atomic operations and understand how they can be useful in optimizing code Implement a multithreaded application in a distributed computing environment Design a C++-based

GPGPU application that employs multithreading In Detail Multithreaded applications execute multiple threads in a single processor environment, allowing developers achieve concurrency. This book will teach you the finer points of multithreading and concurrency concepts and how to apply them efficiently in C++. Divided into three modules, we start with a brief introduction to the fundamentals of multithreading and concurrency concepts. We then take an in-depth look at how these concepts work at the hardware-level as well as how both operating systems and frameworks use these low-level functions. In the next module, you will learn about the native multithreading and concurrency support available in C++ since the 2011 revision, synchronization and communication between threads, debugging concurrent C++ applications, and the best programming practices in C++. In the final module, you will learn about atomic operations before moving on to apply concurrency to distributed and GPGPU-based processing. The comprehensive coverage of essential multithreading concepts means you will be able to efficiently apply multithreading concepts while coding in C++. Style and approach This book is filled with examples that will help you become a master at writing robust concurrent and parallel applications in C++.

Mastering Linux Kernel Development

The future for Nagios in the enterprise is certainly bright! Nagios 3 Enterprise Network Monitoring can help you harness the full power of Nagios in your organization. Nagios 3 contains many significant new features and updates, and this book details them all for you. Once up and running, you'll see how a number of useful add-ons and enhancements for Nagios can extend the functionality of Nagios throughout your organization. And, if you want to learn how to write your own pluginsthis is the book for you! In these pages you'll find a cookbook-style chapter full of useful plugins that monitor a variety of devices, from HTTP-based applications to CPU utilization to LDAP servers and more. Complete Case Study Demonstrates how to Deploy Nagios Globally in an Enterprise Network Monitor Third Party Hardware Devices with Nagios

Python Programming On Win32

"Business analysis involves understanding how organizations function to accomplish their purposes and defining the capabilities an organization requires to provide products and services to external stakeholders. [This guide contains] a framework that describes the business analysis tasks that must be performed in order to understand how a solution will deliver value to the sponsoring organization." - page 3.

FreeRADIUS Beginner's Guide

Build smarter and efficient database application systems for your organization with SQL Server 2017 Key Features Build database applications by using the development features of SQL Server 2017 Work with temporal tables to get information

stored in a table at any time Use adaptive querying to enhance the performance of your queries Book Description Microsoft SQL Server 2017 is the next big step in the data platform history of Microsoft as it brings in the power of R and Python for machine learning and containerization-based deployment on Windows and Linux. Compared to its predecessor, SQL Server 2017 has evolved into Machine Learning with R services for statistical analysis and Python packages for analytical processing. This book prepares you for more advanced topics by starting with a quick introduction to SQL Server 2017's new features and a recapitulation of the possibilities you may have already explored with previous versions of SQL Server. The next part introduces you to enhancements in the Transact-SQL language and new database engine capabilities and then switches to a completely new technology inside SQL Server: JSON support. We also take a look at the Stretch database, security enhancements, and temporal tables. Furthermore, the book focuses on implementing advanced topics, including Query Store, columnstore indexes, and In-Memory OLTP. Towards the end of the book, you'll be introduced to R and how to use the R language with Transact-SQL for data exploration and analysis. You'll also learn to integrate Python code in SQL Server and graph database implementations along with deployment options on Linux and SQL Server in containers for development and testing. By the end of this book, you will have the required information to design efficient, high-performance database applications without any hassle. What you will learn Explore the new development features introduced in SQL Server 2017 Identify opportunities for In-Memory OLTP technology Use columnstore indexes to get storage and performance improvements Exchange JSON data between applications and SQL Server Use the new security features to encrypt or mask the data Control the access to the data on the row levels Discover the potential of R and Python integration Model complex relationships with the graph databases in SQL Server 2017 Who this book is for Database developers and solution architects looking to design efficient database applications using SQL Server 2017 will find this book very useful. In addition, this book will be valuable to advanced analysis practitioners and business intelligence developers. Database consultants dealing with performance tuning will get a lot of useful information from this book as well. Some basic understanding of database concepts and T-SQL is required to get the best out of this book.

Apache Hive Essentials

A step-by-step guide to learning iOS app development and exploring the latest Apple development tools Key Features Explore the latest features of Xcode 11 and the Swift 5 programming language in this updated fourth edition Kick-start your iOS programming career and have fun building your own iOS apps Discover the new features of iOS 13 such as Dark Mode, iPad apps for Mac, SwiftUI, and more Book Description iOS 13 comes with features ranging from Dark Mode and Catalyst through to SwiftUI and Sign In with Apple. If you're a beginner and are looking to experiment and work with these features to create your own apps, then this updated fourth edition gets you off to a strong start. The book offers a comprehensive introduction for programmers who are new to iOS, covering the entire process of learning the Swift language, writing your own apps, and publishing them on the App Store. This edition is updated and revised to cover the new iOS 13 features

along with Xcode 11 and Swift 5. The book starts with an introduction to the Swift programming language, and how to accomplish common programming tasks with it. You'll then start building the user interface (UI) of a complete real-world app, using the latest version of Xcode, and also implement the code for views, view controllers, data managers, and other aspects of mobile apps. The book will then help you apply the latest iOS 13 features to existing apps, along with introducing you to SwiftUI, a new way to design UIs. Finally, the book will take you through setting up testers for your app, and what you need to do to publish your app on the App Store. By the end of this book, you'll be well versed with how to write and publish apps, and will be able to apply the skills you've gained to enhance your apps. What you will learn Get to grips with the fundamentals of Xcode 11 and Swift 5, the building blocks of iOS development Understand how to prototype an app using storyboards Discover the Model-View-Controller design pattern, and how to implement the desired functionality within the app Implement the latest iOS features such as Dark Mode and Sign In with Apple Understand how to convert an existing iPad app into a Mac app Design, deploy, and test your iOS applications with industry patterns and practices Who this book is for This book is for anyone who has programming experience but is completely new to Swift and iOS app development. Experienced programmers looking to explore the latest iOS 13 features will also find this book useful.

Learning Nagios 3.0

If you are a software developer or administrator who wishes to create simple, reusable environments using Vagrant, this book is the perfect choice for you. Whether you are a system administrator with extensive experience in virtualization or a developer wishing to create development scripts for cloud deployment, you will find easy-to-follow recipes and techniques in this book that will allow you to create robust and reproducible virtual environments.

Learning iOS Penetration Testing

Effectively query and modify data using Transact-SQL Master T-SQL fundamentals and write robust code for Microsoft SQL Server and Azure SQL Database. Itzik Ben-Gan explains key T-SQL concepts and helps you apply your knowledge with hands-on exercises. The book first introduces T-SQL's roots and underlying logic. Next, it walks you through core topics such as single-table queries, joins, subqueries, table expressions, and set operators. Then the book covers more-advanced data-query topics such as window functions, pivoting, and grouping sets. The book also explains how to modify data, work with temporal tables, and handle transactions, and provides an overview of programmable objects. Microsoft Data Platform MVP Itzik Ben-Gan shows you how to: Review core SQL concepts and its mathematical roots Create tables and enforce data integrity Perform effective single-table queries by using the SELECT statement Query multiple tables by using joins, subqueries, table expressions, and set operators Use advanced query techniques such as window functions, pivoting, and grouping sets Insert, update, delete, and merge data Use transactions in a concurrent environment Get started with

programmable objects–from variables and batches to user-defined functions, stored procedures, triggers, and dynamic SQL

Learning IOS Security

Up-to-date Microsoft SQL Server 2016 skills made easy! Get up and running on Microsoft SQL Server 2016 in no time with help from this thoroughly revised, practical resource. The book offers thorough coverage of SQL management and development and features full details on the newest business intelligence, reporting, and security features. Filled with new real-world examples and hands-on exercises, Microsoft SQL Server 2016: A Beginner's Guide, Sixth Edition, starts by explaining fundamental relational database system concepts. From there, you will learn how to write Transact-SQL statements, execute simple and complex database queries, handle system administration and security, and use the powerful analysis and BI tools. XML, spatial data, and full-text search are also covered in this step-by-step tutorial. · Revised from the ground up to cover the latest version of SQL Server · Ideal both as a self-study guide and a classroom textbook · Written by a prominent professor and best-selling author

Mind Matters

A practical guide to analyzing iOS devices with the latest forensics tools and techniques About This Book This book is a comprehensive update to Learning iOS Forensics This practical book will not only cover the critical aspects of digital forensics, but also mobile forensics Whether you're a forensic analyst or an iOS developer, there's something in this book for you The authors, Mattia Epifani and Pasquale Stirparo, are respected members of the community, they go into extensive detail to cover critical topics Who This Book Is For The book is for digital forensics analysts, incident response analysts, IT security experts, and malware analysts. It would be beneficial if you have basic knowledge of forensics What You Will Learn Identify an iOS device between various models (iPhone, iPad, iPod Touch) and verify the iOS version installed Crack or bypass the protection passcode chosen by the user Acquire, at the most detailed level, the content of an iOS Device (physical, advanced logical, or logical) Recover information from a local backup and eventually crack the backup password Download back-up information stored on iCloud Analyze system, user, and third-party information from a device, a backup, or iCloud Examine malicious apps to identify data and credential thefts In Detail Mobile forensics is used within many different domains, but is chiefly employed in the field of information security. By understanding common attack vectors and vulnerability points, security professionals can develop measures and examine system architectures to harden security on iOS devices. This book is a complete manual on the identification, acquisition, and analysis of iOS devices, updated to iOS 8 and 9. You will learn by doing, with various case studies. The book covers different devices, operating system, and apps. There is a completely renewed section on third-party apps with a detailed analysis of the most interesting artifacts. By investigating compromised devices, you can work out the identity of the attacker, as well as what was taken, when, why,

where, and how the attack was conducted. Also you will learn in detail about data security and application security that can assist forensics investigators and application developers. It will take hands-on approach to solve complex problems of digital forensics as well as mobile forensics. Style and approach This book provides a step-by-step approach that will guide you through one topic at a time. This intuitive guide focuses on one key topic at a time. Building upon the acquired knowledge in each chapter, we will connect the fundamental theory and practical tips by illustrative visualizations and hands-on code examples.

SQL Server 2017 Administration Inside Out

Begin your iOS 12 app development journey with this practical guide Key Features Kick-start your iOS programming career and have fun building iOS apps of your choice Get to grips with Xcode 10 and Swift 4.2, the building blocks of iOS development Discover the latest features of iOS 12 - SiriKit, notifications, and much more Book Description Want to build iOS 12 applications from scratch with the latest Swift 4.2 language and Xcode 10 by your side? Forget sifting through tutorials and blog posts; this book is a direct route to iOS development, taking you through the basics and showing you how to put principles into practice. Take advantage of this developer-friendly guide and start building applications that may just take the App Store by storm! If you're already an experienced programmer, you can jump right in and learn the latest iOS 12 features. For beginners, this book starts by introducing you to iOS development as you learn Xcode and Swift. You'll also study advanced iOS design topics, such as gestures and animations, to give your app the edge. You'll explore the latest Swift 4.2 and iOS 12 developments by incorporating new features, such as the latest in notifications, custom-UI notifications, maps, and the recent additions in Sirikit. The book will guide you in using TestFlight to quickly get to grips with everything you need to get your project on the App Store. By the end of this book, you'll be ready to start building your own cool iOS applications confidently. What you will learn Explore the distinctive design principles that define the iOS user experience Navigate panels within an Xcode project Use the latest Xcode asset catalogue of Xcode 10 Create a playgrounds project within your projects and understand how Ranges and Control flow work Study operations with integers and work your way through if statements Build a responsive UI and add privacy to your custom-rich notifications Set up Sirikit to add voice for Siri shortcuts Collect valuable feedback with TestFlight before releasing your apps on the App Store Who this book is for This book is for you if you are completely new to Swift, iOS, or programming and want to make iOS applications. However, you'll also find this book useful if you're an experienced programmer looking to explore the latest iOS 12 features.

IOS 12 Programming for Beginners -Third Edition

In iOS and macOS(TM) Performance Tuning, Marcel Weiher drills down to the code level to help you systematically optimize CPU, memory, I/O, graphics, and program responsiveness in any Objective-C, Cocoa, or CocoaTouch program. This up-to-

date guide focuses entirely on performance optimization for macOS and iOS. Drawing on more than 25 years of experience optimizing Apple device software, Weiher identifies concrete performance problems that can be discovered empirically via measurement. Then, based on a deep understanding of fundamental principles, he presents specific techniques for solving them. Weiher presents insights you won't find anywhere else, most of them applying to both macOS and iOS development. Throughout, he reveals common pitfalls and misconceptions about Apple device performance, explains the realities, and helps you reflect those realities in code that performs beautifully. Understand optimization principles, measurement, tools, pitfalls, and techniques Recognize when to carefully optimize, and when it isn't worth your time Balance performance and encapsulation to create efficient object representations, communication, data access, and computation Avoid mistakes that slow down Objective-C programs and hinder later optimization Fix leaks and other problems with memory and resource management Address I/O issues associated with drives, networking, serialization, and SQLite Code graphics and UIs that don't overwhelm limited iOS device resources Learn what all developers need to know about Swift performance This book's source code can be downloaded at github.com/mpw/iOS-macOS-performance. Register your product at informit.com/register for convenient access to downloads, updates, and corrections as they become available. Normal 0 false false false EN-US X-NONE X-NONE

C++ Programming in Easy Steps

Master Shellcode to leverage the buffer overflow concept Key Features Understand how systems can be bypassed both at the operating system and network level with shellcode, assembly, and Metasploit Learn to write and modify 64-bit shellcode along with kernel-level shellcode concepts A step-by-step guide that will take you from low-level security skills to covering loops with shellcode Book Description Security is always a major concern for your application, your system, or your environment. This book's main goal is to build up your skills for low-level security exploits, enabling you to find vulnerabilities and cover loopholes with shellcode, assembly, and Metasploit. This book covers topics ranging from memory management and assembly to compiling and extracting shellcode and using syscalls and dynamically locating functions in memory. This book also covers how to compile 64-bit shellcode for Linux and Windows along with Metasploit shellcode tools. Lastly, this book will also show you to how to write your own exploits with intermediate techniques, using real-world scenarios. By the end of this book, you will have become an expert in shellcode and will understand how systems are compromised both at the operating system and at the network level. What you will learn Create an isolated lab to test and inject Shellcodes (Windows and Linux) Understand both Windows and Linux behavior in overflow attacks Learn the assembly programming language Create Shellcode using assembly and Metasploit Detect buffer overflows Debug and reverse-engineer using tools such as gdb, edb, and immunity (Windows and Linux) Exploit development and Shellcode injections (Windows and Linux) Prevent and protect against buffer overflows and heap corruption Who this book is for This book is intended to be read by penetration testers, malware analysts, security researchers, forensic practitioners, exploit

developers, C language programmers, software testers, and students in the security field. Readers should have a basic understanding of OS internals (Windows and Linux). Some knowledge of the C programming language is essential, and a familiarity with the Python language would be helpful.

Nagios, 2nd Edition

Prepare for Microsoft Exam 70-761–and help demonstrate your real-world mastery of SQL Server 2016 Transact-SQL data management, queries, and database programming. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: • Filter, sort, join, aggregate, and modify data • Use subqueries, table expressions, grouping sets, and pivoting • Query temporal and non-relational data, and output XML or JSON • Create views, user-defined functions, and stored procedures • Implement error handling, transactions, data types, and nulls This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you have experience working with SQL Server as a database administrator, system engineer, or developer • Includes downloadable sample database and code for SQL Server 2016 SP1 (or later) and Azure SQL Database Querying Data with Transact-SQL About the Exam Exam 70-761 focuses on the skills and knowledge necessary to manage and query data and to program databases with Transact-SQL in SQL Server 2016. About Microsoft Certification Passing this exam earns you credit toward a Microsoft Certified Solutions Associate (MCSA) certification that demonstrates your mastery of essential skills for building and implementing on-premises and cloud-based databases across organizations. Exam 70-762 (Developing SQL Databases) is also required for MCSA: SQL 2016 Database Development certification. See full details at: microsoft.com/learning

Learning Nagios 4

This book is intended for mobile security professionals who want to learn how to secure iOS operating systems and its applications. Any knowledge of iOS architecture would be an added advantage.

CentOS 7 Linux Server Cookbook

Now with a virtual machine showcasing the book's test system configuration, Linux Administration: A Beginner's Guide, Seventh Edition teaches system administrators how to set-up and configure Linux quickly and easily. Effectively set up and manage any version of Linux on individual servers or entire networks using this practical resource. Fully updated to cover the latest tools and techniques, Linux Administration: A Beginner's Guide, Seventh Edition features clear explanations, step-

by-step instructions, and real-world examples. Find out how to configure hardware and software, work from the GUI or command line, maintain Internet and network services, and secure your data. Performance tuning, virtualization, containers, software management, and backup solutions are covered in detail. • Install and configure Linux, including the latest distributions from Fedora, Ubuntu, CentOS, openSUSE, Debian, and RHEL • Manage users, permissions, files, folders, and applications • Set up and administer system services and daemons • Manage software from source code or binary packages • Customize, build, or patch the Linux kernel • Work with physical and virtual file systems, such as proc, SysFS, and cgroup • Understand networking protocols, including TCP/IP, ARP, IPv4, and IPv6 • Build reliable firewalls and routers with Netfilter (iptables and nftables) and Linux • Monitor and test network activity and minimize security threats • Create and maintain DNS, FTP, web, e-mail, print, LDAP, and VoIP servers • Share resources using GlusterFS, NFS, and Samba • Implement popular cloud-based technologies using Linux virtualization and containers using KVM and Docker

Tcl 8.5 Network Programming

This book will introduce Nagios to readers who are interested in monitoring their systems. All the concepts in the book are explained in a simplified manner, presented in an easy-to-understand language with lots of tips, tricks, and illustrations. This book is great for system administrators interested in using Nagios to monitor their systems. It will also help professionals who have already worked with earlier versions of Nagios to understand the new features of Nagios 4 and provides usable solutions to real-life problems related to Nagios administration. To effectively use this book, system administration knowledge is required. If you want to create your own plug-ins, knowledge of scripting languages like Perl, shell and Python is expected.

SQL Server 2017 Developer's Guide

C is one of the oldest programming languages and still one of the most widely used. Whether you're an experienced C programmer or you're new to the language, you know how frustrating it can be to hunt through hundreds of pages in your reference books to find that bit of information on a certain function, type or other syntax element. Or even worse, you may not have your books with you. Your answer is the C Pocket Reference. Concise and easy to use, this handy pocket guide to C is a must-have quick reference for any C programmer. It's the only C reference that fits in your pocket and is an excellent companion to O'Reilly's other C books.Ideal as an introduction for beginners and a quick reference for advanced programmers, the C Pocket Reference consists of two parts: a compact description of the C language and a thematically structured reference to the standard library. The representation of the language is based on the ANSI standard and includes extensions introduced in 1999. An index is included to help you quickly find the information you need.This small book covers the following: C language fundamentals Data types Expressions and operators C statements Declarations Functions

Preprocessor directives The standard library O'Reilly's Pocket References have become a favorite among programmers everywhere. By providing a wealth of important details in a concise, well-organized format, these handy books deliver just what you need to complete the task at hand. When you've reached a sticking point in your work and need to get to a solution quickly, the new C Pocket Reference is the book you'll want to have.

A Guide to the Business Analysis Body of Knowledger

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.

Vagrant Virtual Development Environment Cookbook

This is the 5th edition of Murach's classic Java book that's trained thousands of developers in the last 15 years. Now fully updated to Java 9, this book helps any programmer learn Java faster and better than ever before: [[It's the one Java book that presents object-oriented features like inheritance, interfaces, and polymorphism in a way that's both understandable and useful in the real world. [[It offers new coverage of JavaFX, the date/time API, lambdas, and working with SQLite databases. [[It uses a self-paced approach that works whether you're a beginner or have years of programming experience. [[It's full of practical coding examples that enhance training and that provide starting code for new applications. [[It lets you practice what you've just learned at the end of every chapter, to solidify your skills. [[And it's all done in the distinctive Murach style that has been training professional programmers for more than 43 years.

Learning Nagios

A comprehensive configuration guide to monitor and maintain your network and systems

iOS 13 Programming for Beginners

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 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 For This 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 XI In Detail Nagios, 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. Style and approach This will be a practical learning guide for system administrators which will teach them everything about Nagios along with implementing it for your organization and then ending with securing it.

Penetration Testing with Shellcode

This concise anthology of primary sources designed for use in an ancient philosophy survey ranges from the Presocratics to Plato, Aristotle, the Hellenistic philosophers, and the Neoplatonists. The Second Edition features an amplified selection of Presocratic fragments in newly revised translations by Richard D. McKirahan. Also included is an expansion of the Hellenistic unit, featuring new selections from Lucretius and Sextus Empiricus as well as a new translation, by Peter J. Anderson, of most of Seneca's De Providentia. The selections from Plotinus have also been expanded.

Murach's Java Programming

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 guide, written in an easy-to-follow format.Instant Nagios Starter is an outstanding resource for system engineers, administrators and developers, with a basic understanding of the Linux command line Readers should have access to a test system or virtual machine with Linux installed to follow the given examples.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION