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A guide to Amazon Web services provides code samples and information on using APIs to create applications. Design a virtualized data center with VMware vSphere 6.7 Key FeaturesGet the first book on the market that helps you design a virtualized data center with VMware vSphere 6.7Learn how to create professional vSphere design documentation to ensure a successful implementationA practical guide that will help you apply infrastructure design principles to vSphere designBook Description VMware is the industry leader in data center virtualization. The vSphere 6.x suite of products provides a robust and resilient platform to virtualize server and application workloads. This book uses proven infrastructure design principles and applies them to VMware vSphere 6.7 virtual data center design through short and focused recipes on each design aspect. The second edition of this book focused on vSphere 6.0. vSphere features released since then necessitate an updated design guide, which includes recipes for upgrading to 6.7, vCenter HA; operational improvements; cutting-edge, high-performance storage access such as RDMA and

Pmem; security features such as encrypted vMotion and VM-level encryption; Proactive HA; HA Orchestrated Restart; Predictive DRS; and more. By the end of the book, you will be able to achieve enhanced compute, storage, network, and management capabilities for your virtual data center. What you will learn

Identify key factors related to a vSphere design
Mitigate security risks and meet compliance requirements in a vSphere design
Create a vSphere conceptual design by identifying technical and business requirements
Design for performance, availability, recoverability, manageability, and security
Map the logical resource design into the physical vSphere design
Create professional vSphere design documentation

Who this book is for
If you are an administrator or consultant interested in designing virtualized data center environments using VMware vSphere 6.x (or previous versions of vSphere and the supporting components), this book is for you. The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections:

- Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices
- Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE)
- Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems
- Management—Explore Google's best practices for training, communication, and meetings that your organization can use

A step-by-step book and eBook guide for web application development and quick tips to enhance applications using Lotus Domino. When testing becomes a developer's habit good things tend to happen--good productivity, good code, and good job satisfaction. If you want some of that, there's no better way to start your testing habit, nor to continue feeding it, than with "JUnit Recipes." In this book you will find one hundred and thirty-seven solutions to a range of problems, from simple to complex, selected for you by an experienced developer and master tester. Each recipe follows the same organization giving you the problem and its background before discussing your options in solving it.

JUnit - the unit testing framework for Java - is simple to use, but some code can be tricky to test. When you're facing such code you will be glad to have this book. It is a how-to reference full of practical advice on all issues of testing, from how to name your test case classes to how to test complicated J2EE applications. Its valuable advice includes side matters that can have a big payoff, like how to organize your test data or how to manage expensive test resources.

What's Inside:

- Getting started with JUnit
- Recipes for: servlets JSPs EJBs Database code much more
- Difficult-to-test designs, and how to fix them
- How testing saves time
- Choose a JUnit extension: HTMLUnit XMLUnit ServletUnit EasyMock and more!

Writing documentation is an integral part of any technical product development. A significant amount of time is spent describing the

product functionality, giving insights into technical details, providing maintenance instructions, specifying marketing information, writing user manuals, etc. As the creation of such documentation is generally a source of higher production costs, many large companies are realising the need to increase the efficiency of documentation handling. Simple documents consisting of only a few pages can be developed on simple systems. Basic components of such systems are an editor handling text and graphics, file storage, and a printer. Such configurations, however, are not sufficient to handle professional documentation as produced by larger companies. Detailed studies of technical documentation requirements have revealed that in particular the following functionality is not usually provided by such simple documentation systems: Technical documentation is often very large; documents having hundreds or even thousands of pages are not exceptional. Due to size and complexity, technical documentation is developed most often by a team of authors. A system for technical documentation has to provide functionality supporting the organisation of a group of authors. Technical documentation usually consists of many different documents combined into one large documentation for a particular product. The optimum organisation of the storage and retrieval of documents is crucial for the performance and acceptability of the system. The functionality offered by normal file systems is not adequate to organise complex systems. The first and only Study Guide for the MCTS Windows SharePoint Services 3.0 Configuration Exam (70-631) Windows SharePoint Services 3.0 is a free collaborative tool that allows you to share and organize documents, contacts, and calendars; create polls; moderate the content of lists and share libraries; and more. Exam 70-631 tests your knowledge of SharePoint Services 3.0 and this book sharpens your skills as you prepare to take Exam 70-631. Packed with chapter review questions, real-world scenarios, and hands-on exercises, this study guide also readies you for specific aspects of Exam 70-631, including: deploying Windows SharePoint Services 3.0, monitoring SharePoint Services, configuring security for SharePoint Services, administering SharePoint Services, managing customization, and configuring network infrastructure for SharePoint Services. First and only study guide to cover MCTS Windows SharePoint Services 3.0 Configuration Exam (70-631) Examines deploying, monitoring, and administering SharePoint Services, which are specific topics featured in Exam 70-631 CD features two practice exams, electronic flashcards, interactive chapter review questions, and the book in a searchable PDF With this unique study guide, you'll be armed and ready as you prepare to take Exam 70-631. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. As the world enters into an unparalleled period of exponential change, most organisations are still using either Waterfall, Agile or Change Control as their primary project management methodology. Enter Chagwa®, a new process driven structure that allows a seamless interaction between our familiar project management methodologies. With its pragmatic set of rules and guidelines, Chagwa® offers the PMO and project manager a clear way forward for every kind of project. By selecting the most suitable methodology (including hybrid variants) Chagwa® ensures that projects get off to a good start without the need for endless discussion or compromise. For example, Chagwa® can integrate Agile into what may have been considered as a conventional project or program while still allowing an organization to

keep its Waterfall and Change Control project methodologies where it makes sense to do so. Chagwa® is more than just a theoretical methodology. It is a complete set of templates and tools that integrate with the Chagwa® processes allowing organisations to build out a new Project Management Organisation in an accelerated track without deviating from their proven tools and techniques. Research on real-time Java technology has been prolific over the past decade, leading to a large number of corresponding hardware and software solutions, and frameworks for distributed and embedded real-time Java systems. This book is aimed primarily at researchers in real-time embedded systems, particularly those who wish to understand the current state of the art in using Java in this domain. Much of the work in real-time distributed, embedded and real-time Java has focused on the Real-time Specification for Java (RTSJ) as the underlying base technology, and consequently many of the Chapters in this book address issues with, or solve problems using, this framework. Describes innovative techniques in: scheduling, memory management, quality of service and communication systems supporting real-time Java applications; Includes coverage of multiprocessor embedded systems and parallel programming; Discusses state-of-the-art resource management for embedded systems, including Java 's real-time garbage collection and parallel collectors; Considers hardware support for the execution of Java programs including how programs can interact with functional accelerators; Includes coverage of Safety Critical Java for development of safety critical embedded systems. Configuration Management Metrics: Product Lifecycle and Engineering Documentation Control Process Measurement and Improvement provides a comprehensive discussion of measurements for configuration management/product lifecycle processes. Each chapter outlines one of the most important measures of merit – the need for written policy and procedures. The best of the best practices as to the optimum standards are listed with an opportunity for the reader to check off those that their company has and those they do not. The book first defines the concept of configuration management (CM) and explains its importance. It then discusses the important metrics in the major CM and related processes. These include: new item release; order entry/fulfillment; request for change; bill of material change cost; and field change. Ancillary processes which may or may not be thought of as part of these major processes are also addressed, including deviations, service parts, publications and field failure reporting. Provides detailed guidance on developing and implementing measurement systems and reports Demonstrates methods of graphing and charting data, with benchmarks A practical resource for the development of Engineering Documentation Control processes Includes basic principles of Product Lifecycle processes and their measurement The most extensive Exchange 2003 reference found on the market today from one of the world's leading Microsoft server experts, Rand Morimoto. Written from the ground up exclusively for Exchange 2003--not a revision of an Exchange 2000 book. Based on the author's experience implementing Exchange 2003 in heavy-use corporate environments since Beta release 1. Contains hard-to-find intermediate to advanced coverage far beyond the competition's typical installation and set-up how-to's including planning, migration, security, disaster recovery, and vast troubleshooting tips. A complete reference targeted at intermediate to advanced users for help in managing the complicated and business-critical matters of e-mail, message databases,

and ever-increasing mobile and remote system access. The Certified Information Systems Security Professional (CISSP) is the industry standard test on IT security. This guide helps security professionals prepare for the exam while providing a reference on key information security areas. An effective systems development and design process is far easier to explain than it is to implement. A framework is needed that organizes the life cycle activities that form the process. This framework is Configuration Management (CM). Software Configuration Management discusses the framework from a standards viewpoint, using the original "This book covers the planning, design, prototype testing, implementation, administration, and support of Windows 2003 and Active Directory as well as the security aspects of protecting an organization from external and internal attacks. Additionally, this book addresses the design and implementation of DNS, WINS, DHCP, and Global Catalog Servers that make up the backbone of an Active Directory implementation." -- back cover.

Thorough coverage of the improvements and changes to SharePoint 2010 SharePoint 2010 boasts a variety of incredible new features that will challenge even the most experienced administrator who is upgrading from SharePoint 2007. Written by a team of SharePoint experts, this book places a takes aim at showing you how to make these new features work right for you. Offering an in-depth look at SharePoint 2010, the authors focus on how SharePoint functionality has changed from its earliest version to its newest, and they provide you with detailed coverage of all the new features and capabilities. Presents in-depth coverage of the new features and functions of SharePoint 2010 Demonstrates installation, configuration, and upgrading existing SharePoint 2007 servers Discusses architecture and capacity planning, securing and managing site content, and integrating Office clients Details the protocol for handling monitoring, creating backups, and executing disaster recovery Addresses shared service applications, navigation and governance, and business intelligence and reporting services Professional SharePoint 2010 presents a solid understanding of the functionality that SharePoint 2010 provides, which will allow you to see what it can do for you. Learn how to develop REST-style and SOAP-based web services and clients with this quick and thorough introduction. This hands-on book delivers a clear, pragmatic approach to web services by providing an architectural overview, complete working code examples, and short yet precise instructions for compiling, deploying, and executing them. You ' ll learn how to write services from scratch and integrate existing services into your Java applications. With greater emphasis on REST-style services, this second edition covers HttpServlet, Restlet, and JAX-RS APIs; jQuery clients against REST-style services; and JAX-WS for SOAP-based services. Code samples include an Apache Ant script that compiles, packages, and deploys web services. Learn differences and similarities between REST-style and SOAP-based services Program and deliver RESTful web services, using Java APIs and implementations Explore RESTful web service clients written in Java, JavaScript, and Perl Write SOAP-based web services with an emphasis on the application level Examine the handler and transport levels in SOAP-based messaging Learn wire-level security in HTTP(S), users/roles security, and WS-Security Use a Java Application Server (JAS) as an alternative to a standalone web server A set of good practices related to configuration management in Automated Data Processing systems employed for processing classified and other

information. Provides guidance to developers of trusted systems on what configuration management is and how it may be implemented in the development and life-cycle of a trusted system. Use Windows PowerShell Desired State Configuration (DSC) to configure your infrastructure on-premises and in the cloud. In an environment where changes and deployments are happening all the time, DSC makes the necessary adjustments to the system so you don't have to. Pro PowerShell Desired State Configuration shows you how. PowerShell Desired State Configuration (DSC) is a powerful configuration management platform that makes it easier than ever to perform configuration management of your infrastructure, whether on-premises or in the cloud. With Pro PowerShell Desired State Configuration, Ravikanth Chaganti revises and significantly expands his previous edition, bringing you a complete in-depth reference for applying this evolving technology in your day-to-day work. What's new in this edition? Get up-to-date, in-depth guidance on DSC in the data center Understand the central role that DSC plays in DevOps today Integrate DSC into build and release management tools Learn to think and act like a developer when automating your configuration management, creating a testable, robust process that you can use again and again Find out why and how DSC has an important role to play in public and private cloud deployments Apply DSC in the cloud with Microsoft Azure or Amazon Web Services or Google Cloud Platform Who This Book Is For IT administrators, developers and DevOps engineers working in Windows-based data center environments. With a little prior PowerShell scripting experience, this book can be used as an in-depth reference to creating, customizing, and extending DSC in Windows. IT administrators with limited scripting experience will also find this book a useful overview of what DSC offers and how to use DSC resources to automate configuration management and deployment. "Whether you're looking to change messaging servers, modify your administration tasks to a simpler and more efficient level, or ensure the security and flexibility of your web application server, Lotus Domino Administration in a Nutshell will give you the everyday help you need to make the most of this reliable and scalable integrated server platform."--Jacket. Discover the ins and outs of cybersecurity architecture with this handbook, designed to enhance your expertise in implementing and maintaining robust security structures for the ever-evolving digital landscape Key Features Gain insights into the cybersecurity architect role and master key skills to excel in it Acquire a diverse skill set for becoming a cybersecurity architect through up-to-date, practical examples Discover valuable tips and best practices to launch your career in cybersecurity Purchase of the print or Kindle book includes a free PDF eBook Book Description Stepping into the role of a Cybersecurity Architect (CSA) is no mean feat, as it requires both upskilling and a fundamental shift in the way you view cybersecurity altogether. Cybersecurity Architect's Handbook is an all-encompassing guide, introducing the essential skills for aspiring CSAs, outlining a path for cybersecurity engineers and newcomers to evolve into architects, and sharing best practices to enhance the skills of existing CSAs. Following a brief introduction to the role and foundational concepts, this book will help you understand the day-to-day challenges faced by CSAs, supported by practical examples. You'll gain insights into assessing and improving your organization's security posture, concerning system, hardware, and software security. You'll also get to grips with

setting user and system policies and protocols through effective monitoring and enforcement, along with understanding countermeasures that protect the system from unauthorized access attempts. To prepare you for the road ahead and augment your existing skills, the book provides invaluable tips and practices that will contribute to your success as a CSA. By the end of this book, you ' ll be well-equipped to take up the CSA role and execute robust security solutions.

What you will learn

- Get to grips with the foundational concepts and basics of cybersecurity
- Understand cybersecurity architecture principles through scenario-based examples
- Navigate the certification landscape and understand key considerations for getting certified
- Implement zero-trust authentication with practical examples and best practices
- Find out how to choose commercial and open source tools
- Address architecture challenges, focusing on mitigating threats and organizational governance

Who this book is for

This book is for cybersecurity professionals looking to transition into a cybersecurity architect role. Solution architects interested in understanding the scope of the role and the necessary skills for success will also find this book useful.

In this new edition of his widely-used Handbook, Frank Watts, widely recognized for his significant contributions to engineering change control processes, provides a thoroughly practical guide to the implementation and improvement of Engineering Documentation Control (EDC), Product Lifecycle Management and Product Configuration Management (CM). Successful and error-free implementation of EDC/CM is critical to world-class manufacturing. Huge amounts of time are wasted in most product manufacturing environments over EDC/CM issues such as interchangeability, document release and change control – resulting in faults, product release delays and overspends. The book is packed with specific methods that can be applied quickly and accurately to almost any industry and any product to control documentation, request changes to the product, implement changes and develop bills of material. The result is a powerful communications bridge between the engineering function and ‘ the rest of the world ’ that makes rapid changes in products and documentation possible. With the help of the simple techniques in the handbook, companies can gain and hold their competitive advantages in a world that demands flexibility and quick reflexes – and has no sympathy for delays. The new edition sets EDC/CM in the context of Product Lifecycle Management (PLM), providing guidance on choosing, purchasing and implementing PLM software systems. Watts guides the reader to harness these tools and techniques for business objectives including Process Improvement and time-to-market. Solid, pragmatic ideas for real product and process cost reduction. According to one reviewer: ‘ most books focus on the basics without examining all facets of each process area or functional area. This may be good for quickly learning, but it will only take the reader so far. Mr. Watts imparts the same information, but invites the reader to think and to consider strengths and weaknesses of processes and procedures. The copious examples, illustrations and breadth of topics covered make this book "the" reference on EDC and CM. ’ Strategic emphasis shows how processes may be integrated and tears down the ‘ wall ’ between Engineering and Operations

Thorough description of Product Lifecycle Management software tools

This book speaks to the professional administrator who must set up, configure, maintain, and troubleshoot a multi-tasked network environment. Rob Kirkland attacks the technology at the professional level, with

practical-hands-on assistance to get Domino 5 running. Get a head start with eXist, the open source NoSQL database and application development platform built entirely around XML technologies. With this hands-on guide, you'll learn eXist from the ground up, from using this feature-rich database to work with millions of documents to building complex web applications that take advantage of eXist's many extensions. If you're familiar with XML—as a student, professor, publisher, or developer—you'll find that eXist is ideal for all kinds of documents. This book shows you how to store, query, and search documents with XQuery and other XML technologies, and how to construct applications on top of the database with tools such as eXide and eXist's built-in development environment. Manage both data-oriented and text-oriented markup documents securely Build a sample application that analyzes and searches Shakespeare's plays Go inside the architecture and learn how eXist processes documents Learn how to work with eXist's internal development environment Choose among various indexes, including a full-text index based on Apache Lucene Dive into eXist's APIs for integrating or interacting with the database Extend eXist by building your own Triggers, Scheduled Tasks, and XQuery extension modules Get to know a key ingredient to world-class product manufacturing With this manual, you have the best of the best management practices for the configuration management processes. It goes a long way toward satisfying Total Quality Management, FDA, GMP, Lean CM and ISO/QS/AS 9XXX process documentation requirements. The one requirement common to all those standards is to document the processes and to do what you document. Third edition of this best-selling guide to IMS: fully revised, and updated with brand new material The IMS (IP Multimedia Subsystem) is the technology that merges the Internet with the cellular world. It makes Internet technologies such as the web, email, instant messaging, presence, and videoconferencing available nearly everywhere at any time. The third edition of this bestselling book is fully updated and provides comprehensively expanded content, including new chapters on emergency calls and on Voice Call Continuity (VCC). As well as this, The 3G IP Multimedia Subsystem (IMS) presents updated material including a comprehensive picture of Session Initiation Protocol (SIP) as well as its applicability to IMS. As most of the protocols have been designed in the IETF, this book explains how the IETF developed these protocols and describes how these protocols are used in the IMS architecture. This is an indispensable guide for engineers, programmers, business managers, marketing representatives and technically aware users who want to understand how the IMS works and explore the business model behind it. New chapters on emergency calls, Voice Call Continuity (VCC), service configuration (XCAP, XDM), and conferencing Fully updated throughout, including Policy and Charging Control (PCC), QoS, Presence, Instant Messaging, Multimedia Telephony Services, and Push-to-talk over Cellular (PoC) Describes the IP Multimedia Subsystem from two different perspectives: from the IETF perspective, and from the 3GPP perspective. Provides details on the latest policy technology and security architecture Written by experienced professionals in the field. Electronic negotiations concern transactions on the basis of electronic media, such as the Internet. Platforms have been developed to aid participants in electronic markets during the agreement phase. The key activity in this is the matching of offers and requests, for which we need a ranking of the alternatives. In this book the author defines a framework in

which a ranking can be generated in order to acquire an optimal decision for a desired transaction - this process is called matchmaking. The author introduces a generic framework for multidimensional, multiattribute matchmaking, its implementation, and an analysis of it. The genericity of the author's approach means that the implementation, realized as a multiagent system, can represent both offering and requesting agents, and the framework can be applied to a huge variety of applications. The use cases in the book are derived from the human resources domain, and thus involve quite complex matchmaking. The author's presentation is thorough and self-contained. He provides definitions of the relevant business and computer science terms, and detailed explanations of the underlying mathematical tools and software implementations.

Windows Server 2008 R2 Unleashed is the most comprehensive and realistic guide to planning, design, prototyping, implementation, migration, administration, and support. Based on the authors' unsurpassed experience working with Windows Server 2008 R2 since its earliest alpha releases, it offers indispensable guidance drawn from hundreds of production environments. Microsoft MVP Rand Morimoto and his colleagues systematically introduce Windows Server 2008 R2 to IT professionals, identifying R2's most crucial enhancements and walking through every step of installation and configuration. Next, they present comprehensive coverage of every area of Windows Server 2008 R2, including Active Directory, networking services, security, R2 migration from Windows Server 2003 and 2008, administration, fault tolerance, optimization and troubleshooting, core application services, and more. The authors thoroughly address major Windows Server 2008 R2 enhancements and present extensive coverage of R2 innovations ranging from Hyper-V virtualization to DirectAccess and the enhancements in Failover Clustering. Every chapter contains tips, tricks, and best practices learned from actual deployments: practical information for using Windows Server 2008 R2 to solve real business problems. Detailed information on how to...

- Plan and migrate from Windows Server 2003/2008 to Windows Server 2008 R2 and use R2's new server migration tools
- Manage Active Directory with Active Directory Administrative Center, Best Practice Analyzer, and PowerShell scripts
- Use R2's updated security tools and templates to lock down servers, clients, and networks
- Maximize availability with Windows Server 2008 R2 clustering, fault tolerance, and replication
- Streamline client management with new Group Policy ADMX settings and management tools
- Improve remote access using DirectAccess, Remote Desktop Services (formerly Terminal Services), and Virtual Desktop Infrastructure
- Implement Hyper-V virtualization including the built-in Live Migration technology
- Leverage add-ons such as Windows SharePoint Services, Windows Media Services, and IIS 7.5

This coherently written book is the final report on the IPSEN project on Integrated Software Project Support Environments devoted to the integration of tools for the development and maintenance of large software systems. The theoretical and application-oriented findings of this comprehensive project are presented in the following chapters: Overview: introduction, classification, and global approach; The outside perspective: tools, environments, their integration, and user interface; Internal conceptual modeling: graph grammar specifications; Realization: derivation of efficient tools, Current and future work, open problems; Conclusion: summary, evaluation, and vision. Also included is a comprehensive bibliography listing more

than 1300 entries and a detailed index. Annotation Learn how to develop REST-style and SOAP-based web services and clients with this quick and thorough introduction. This hands-on book delivers a clear, pragmatic approach to web services by providing an architectural overview, complete working code examples, and short yet precise instructions for compiling, deploying, and executing them. You'll learn how to write services from scratch and integrate existing services into your Java applications. With greater emphasis on REST-style services, this second edition covers HttpServlet, Restlet, and JAX-RS APIs; jQuery clients against REST-style services; and JAX-WS for SOAP-based services. Code samples include an Apache Ant script that compiles, packages, and deploys web services. Learn differences and similarities between REST-style and SOAP-based services Program and deliver RESTful web services, using Java APIs and implementations Explore RESTful web service clients written in Java, JavaScript, and Perl Write SOAP-based web services with an emphasis on the application level Examine the handler and transport levels in SOAP-based messaging Learn wire-level security in HTTP(S), users/roles security, and WS-Security Use a Java Application Server (JAS) as an alternative to a standalone web server. Collects in four chapters single monographs related to the fundamental advances in parallel computer systems and their developments from different points of view (from computer scientists, computer manufacturers, end users) and related to the establishment and evolution of grids fundamentals, implementation and deployment. This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems, missile design, space technology, satellites, intercontinental ballistic missiles, and space security. While there are many existing selections of systems engineering and risk management textbooks, there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions. With this book Dr. Anna M. Doro-on rectifies the current imbalance. She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies. The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats. The book is designed for systems engineers in practice, political risk professionals, managers, policy makers, engineers in other engineering fields, scientists, decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations. Summary MongoDB in Action, Second Edition is a completely revised and updated version. It introduces MongoDB 3.0 and the document-oriented database model. This perfectly paced book gives you both the big picture you'll need as a developer and enough low-level detail to satisfy system engineers. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology This document-oriented database was built for high availability, supports rich, dynamic schemas, and lets you easily distribute data across multiple servers. MongoDB 3.0 is flexible, scalable, and very fast, even with big data loads. About the Book MongoDB in Action,

Second Edition is a completely revised and updated version. It introduces MongoDB 3.0 and the document-oriented database model. This perfectly paced book gives you both the big picture you'll need as a developer and enough low-level detail to satisfy system engineers. Lots of examples will help you develop confidence in the crucial area of data modeling. You'll also love the deep explanations of each feature, including replication, auto-sharding, and deployment. What's Inside Indexes, queries, and standard DB operations Aggregation and text searching Map-reduce for custom aggregations and reporting Deploying for scale and high availability Updated for Mongo 3.0 About the Reader Written for developers. No previous MongoDB or NoSQL experience is assumed. About the Authors After working at MongoDB, Kyle Banker is now at a startup. Peter Bakkum is a developer with MongoDB expertise. Shaun Verch has worked on the core server team at MongoDB. A Genentech engineer, Doug Garrett is one of the winners of the MongoDB Innovation Award for Analytics. A software architect, Tim Hawkins has led search engineering at Yahoo Europe. Technical Contributor: Wouter Thielen. Technical Editor: Mihalis Tsoukalos.

Table of Contents PART 1 GETTING STARTED A database for the modern web MongoDB through the JavaScript shell Writing programs using MongoDB PART 2 APPLICATION DEVELOPMENT IN MONGODB Document-oriented data Constructing queries Aggregation Updates, atomic operations, and deletes PART 3 MONGODB MASTERY Indexing and query optimization Text search WiredTiger and pluggable storage Replication Scaling your system with sharding Deployment and administration An effective systems development and design process is far easier to explain than it is to implement. A framework is needed that organizes the life cycle activities that form the process. This framework is Configuration Management (CM). Software Configuration Management discusses the framework from a standards viewpoint, using the original Desired State Configuration (DSC) is a powerful configuration management platform that makes it easier than ever to perform cross-platform configuration management of your infrastructure, whether on-premise or in the cloud. DSC provides the management platform and Application Programming Interface (API) that can be used with any programming language. Windows PowerShell Desired State Configuration Revealed will take you through this new technology from start to finish and demonstrates the DSC interfaces through Windows PowerShell. DSC allows you to manage target devices by simply declaring what state you want them to be in, using new declarative language extensions, rather than writing detailed instructions to get them into that state. This makes continuous delivery in Windows easier than ever before. In an environment where changes and deployments are happening all the time, DSC makes the necessary adjustments to the system so you don't have to. Windows PowerShell Desired State Configuration Revealed starts with an overview of the configuration management features in Windows, followed by a discussion of the architecture of DSC and its components. You'll then explore DSC's built-in features and resources, followed by some of the different methods provided for delivering configuration information within your ecosystem, and learn about configuration monitoring and reporting. In the latter part of the book, you'll find out how to get more power out of DSC by writing your own custom DSC resources, including a range of useful examples, and the book concludes with vital information on deploying and troubleshooting DSC in a production environment, along with some

expert tips and tricks you might find useful along the way. Windows PowerShell Desired State Configuration Revealed is your one-stop guide to this new technology and how it can change your working life for the better. Describes the best of the best management practices for the configuration management processes-- Explore the benefits of VMware vSphere 6.7 to provide a powerful, flexible, and secure virtual infrastructure, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent Key Features Design, deploy and manage VMware vSphere virtual data centers Implement monitoring and security of VMware workloads with ease Explore tips and techniques for designing a robust virtual infrastructure

Book Description vSphere 6.7 is the latest release of VMware's industry-leading virtual cloud platform. By understanding how to manage, secure, and scale apps with vSphere 6.7, you can easily run even the most demanding of workloads. This Learning Path begins with an overview of the features of the vSphere 6.7 suite. You'll learn how to plan and design a virtual infrastructure. You'll also gain insights into best practices to efficiently configure, manage, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent memory. The book will even guide you in securing your network with security features, such as encrypted vMotion and VM-level encryption. Finally, by learning how to apply Proactive High Availability and Predictive Distributed Resource Scheduler (DRS), you'll be able to achieve enhanced computing, storage, network, and management capabilities for your virtual data center. By the end of this Learning Path, you'll be able to build your own VMware vSphere lab that can run high workloads. This Learning Path includes content from the following Packt products: VMware vSphere 6.7 Data Center Design Cookbook - Third Edition by Mike Brown and Hersey Cartwright Mastering VMware vSphere 6.7 - Second Edition by Martin Gavanda, Andrea Mauro, Karel Novak, and Paolo Valsecchi

What you will learn Understand how to patch, upgrade, and manage a virtual environment with vSphere 6.7 Identify key factors related to a vSphere design Mitigate security risks and meet compliance requirements in a vSphere design Create a vSphere conceptual design by identifying technical and business requirements Map the logical resource design into the physical vSphere design Create professional vSphere design documentation

Who this book is for This Learning Path is for administrators, infrastructure engineers, consultants, and architects who want to design virtualized data center environments using VMware vSphere 6.x (or previous versions of vSphere and the supporting components). Basic knowledge of VMware vSphere is required to get the most out of this Learning Path.

FISCAM presents a methodology for performing info. system (IS) control audits of governmental entities in accordance with professional standards. FISCAM is designed to be used on financial and performance audits and attestation engagements. The methodology in the FISCAM incorp. the following: (1) A top-down, risk-based approach that considers materiality and significance in determining audit procedures; (2) Evaluation of entitywide controls and their effect on audit risk; (3) Evaluation of general controls and their pervasive impact on bus. process controls; (4) Evaluation of security mgmt. at all levels; (5) Control hierarchy to evaluate IS control weaknesses; (6) Groupings

of control categories consistent with the nature of the risk. Illus.

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