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Microsoft System Center Optimizing Service Manager [Microsoft System Center Deploying Hyper-V with Software-Defined Storage & Networking](#) **The Reference Guide to Data Center Automation** **Microsoft System Center Enterprise Suite Unleashed** *Microsoft System Center 2012 R2 Operations Manager Cookbook* *IBM Communications Server for Data Center Deployment V7.0* **Microsoft System Center Extending Operations Manager Reporting Using Windows Server Essentials 2012 Professional Live Communications Server** [Administering Data Centers](#) **Microsoft System Center Configuration Manager Cookbook** *SAP Hardware Solutions System Center 2012 Configuration Manager (SCCM) Unleashed* **Microsoft System Center - Network Virtualization and Cloud Computing Data Center Fundamentals** [Introducing Microsoft System Center 2012 R2 Deploying Microsoft System Center Configuration Manager](#) [Mastering System Center Configuration Manager 2007 R2](#) **Pro LCS Blade Servers and Virtualization** **CIO Microsoft System Center 2012 Unleashed Microsoft System Center Integrated Cloud Platform** [Implementing Cisco UCS Solutions](#) [Getting Started with Microsoft System Center Operations Manager](#) [Data Center Fundamentals](#) [Computerworld](#) *Microsoft System Center Troubleshooting Configuration Manager* **Cloud Computing IT Production Services** **Cloud Computing System Center 2016 Virtual Machine Manager Cookbook, System Center Opalis Integration Server 6.3 Unleashed** *IT Service Management Best Practices Using IBM SmartCloud Control Desk* **Mastering System Center Configuration Manager** [Energy Efficient Servers](#) *Network World Site Reliability Engineering The Policy Driven Data Center with ACI*

Use policies and Cisco® ACI to make data centers more flexible and configurable--and deliver far more business value Using the policy driven data center approach, networking professionals can accelerate and simplify changes to the data center, construction of cloud infrastructure, and delivery of new applications. As you improve data center flexibility, agility, and portability, you can deliver far more business value, far more rapidly. In this guide, Cisco data center experts Lucien Avramov and Maurizio Portolani show how to achieve all these benefits with Cisco Application Centric Infrastructure (ACI) and technologies such as python, REST, and OpenStack. The authors explain the advantages, architecture, theory, concepts, and methodology of the policy driven data center. Next, they demonstrate the use of python scripts and REST to automate network management and simplify customization in ACI environments. Drawing on experience deploying ACI in enterprise data centers, the authors review design considerations and implementation methodologies. You will find design considerations for virtualized datacenters, high performance computing, ultra-low latency environments, and large-scale data centers. The authors walk through building multi-hypervisor and bare-metal infrastructures, demonstrate service integration, and introduce advanced telemetry capabilities for troubleshooting. Leverage the architectural and management innovations built into Cisco® Application Centric Infrastructure (ACI) Understand the policy driven data center model Use policies to meet the network performance and design requirements of modern data center and cloud environments Quickly map hardware and software capabilities to application deployments using graphical tools--or programmatically, via the Cisco APIC API Increase application velocity: reduce the time needed to move applications into production Define workload connectivity instead of (or along with) subnets, VLAN stitching, and ACLs Use Python scripts and REST to automate policy changes, parsing, customization, and self-service Design policy-driven data centers that support hypervisors Integrate OpenStack via the Cisco ACI APIC OpenStack driver architecture Master all facets of building and operating multipurpose cloud architectures with ACI Configure ACI fabric topology as an infrastructure or tenant administrator Insert Layer 4-Layer 7 functions using service graphs Leverage centralized telemetry to optimize performance; find and resolve problems Understand and familiarize yourself with the paradigms of programmable policy driven networks Master the basics of data centers to build server farms that enhance your Web site performance Learn design guidelines that show how to deploy server farms in highly available and scalable environments Plan site performance capacity with discussions of server farm architectures and their real-life applications to determine your system needs Today's market demands that businesses have an Internet presence through which they can perform e-commerce and customer support, and establish a presence that can attract and increase their customer base. Underestimated hit ratios, compromised credit card records, perceived slow Web site access, or the infamous "Object Not Found" alerts make the difference between a successful online presence and one that is bound to fail. These challenges can be solved in part with the use of data center technology. Data centers switch traffic based on information at the Network, Transport, or Application layers. Content switches perform the "best server" selection process to direct users' requests for a specific service to a server in a server farm. The best server selection process takes into account both server load and availability, and the existence and consistency of the requested content. Data Center Fundamentals helps you understand the basic concepts behind the design and scaling of server farms using data center and content switching technologies. It addresses the principles and concepts needed to take on the most common challenges encountered during planning, implementing, and managing Internet and intranet IP-based server farms. An in-depth analysis of the data center technology with real-life scenarios make Data Center Fundamentals an ideal reference for understanding, planning, and designing Web hosting and e-commerce environments. The System Center Operations Manager data warehouse stores many objects, making it possible to report on performance, availability, configuration, and security. You can use data collected by Operations Manager for issue tracking, awareness, planning, and forecasting, all of which are important factors for maintaining and managing your environment. But understanding what to report on and how to do so is what actually contributes to the stability of your infrastructure. If you're not using the data you collect about your environment, you're simply wasting space. If you use Operations Manager to monitor your environment, whether your infrastructure or a public, private, or hybrid cloud, this book is a good resource to help you understand the basics of reporting and how to build queries and stored procedures for your reports. It can also help you understand the various elements of Operations Manager management packs that are used when you create reports. Using Windows Server 2012 Essentials - Step by Step is our comprehensive guide to Microsoft's ideal "first server" platform. Written specifically for home and small business owners new to servers, or those migrating from Microsoft's Windows Home Server, Using Windows Server 2012 Essentials provides easy to follow steps for installing, configuring and extending Windows Server 2012 Essentials - at home or at the office! Fully illustrated with hundreds of colour screenshots, this 586 page eBook is designed to provide a friendly deep dive into the features and workings of Microsoft's server platform - no IT degree required! Author and Microsoft Most Valuable Professional Jim Clark walks you through first steps with your server - from the computer hardware you'll need to host Windows Server 2012 Essentials, through installing the software, configuring user accounts and security settings, connecting client PCs, mobile devices and Apple Macs. We take a look at backing up and restoring your vital data, sharing files and folders across multiple users and devices, accessing the server remotely via the web or VPN, streaming music, video and photos and a whole lot more. The eBook wraps up with a high level guide to additional software you could consider installing to extend the Windows Server 2012 platform as well as an introduction to advanced server management tools and features. Whether you're considering the use of a server at home or for your small business, thinking of moving from a Network Attached Storage device or back-up hard drive to a more powerful option, or simply whether you just want to find out more, Using Windows Server 2012 Essentials - Step by Step has been written to answer all of your questions - by non-IT geeks, for non-IT geeks! "This book covers a wide spectrum of topics relevant to implementing and managing a modern data center. The chapters are comprehensive and the flow of concepts is easy to understand." -Cisco reviewer Gain a practical knowledge of data center concepts To create a well-designed data center (including storage and network architecture, VoIP implementation, and server consolidation) you must understand a variety of key concepts and technologies. This book explains those factors in a way that smoothes the path to

implementation and management. Whether you need an introduction to the technologies, a refresher course for IT managers and data center personnel, or an additional resource for advanced study, you'll find these guidelines and solutions provide a solid foundation for building reliable designs and secure data center policies. * Understand the common causes and high costs of service outages * Learn how to measure high availability and achieve maximum levels * Design a data center using optimum physical, environmental, and technological elements * Explore a modular design for cabling, Points of Distribution, and WAN connections from ISPs * See what must be considered when consolidating data center resources * Expand your knowledge of best practices and security * Create a data center environment that is user- and manager-friendly * Learn how high availability, clustering, and disaster recovery solutions can be deployed to protect critical information * Find out how to use a single network infrastructure for IP data, voice, and storage For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. Part of a series of specialized guides on System Center - this book focuses on troubleshooting Configuration Manager, which is used to manage a wide range of Microsoft client platforms, server platforms, and mobile devices. Series editor Mitch Tulloch and a team of System Center experts provide concise technical guidance as they step you through key troubleshooting tasks and solutions. A beginner's guide to help you design, deploy and administer your System Center Operations Manager 2016 and 2012 R2 environments About This Book Discover how to monitor complex IT environments with System Center Operations Manager using tips, tricks and best practice recommendations from industry experts. Learn how to create eye-catching dashboards and reports to help deliver a tangible return on investment back to your organization. Optimize, troubleshoot and perform disaster recovery in Operations Manager using step by step examples based on real-world scenarios. Who This Book Is For The target audience for this book is the IT Pro or System Administrator who wants to deploy and use System Center Operations Manager but has no previous knowledge of the product. As a 'Getting Started' book, our primary objective is to equip you with the knowledge you need to feel comfortable when working with common monitoring scenarios in OpsMgr. With this in mind, deep-diving into less-common OpsMgr features such as Audit Collection Services (ACS), Agentless Exception Monitoring (AEM) and Application Performance Monitoring (APM) has been intentionally omitted. What You Will Learn Install a new System Center 2016 Operations Manager Management Group Design and provision custom views to relevant support teams. Understand how to deploy agents Work with management packs Monitor network devices Model your IT services with distributed applications Create dashboards and custom visualizations Tune, optimize, maintain and troubleshoot System Center Operations Manager In Detail Most modern IT environments comprise a heterogeneous mixture of servers, network devices, virtual hypervisors, storage solutions, cross-platform operating systems and applications. All this complexity brings a requirement to deliver a centralized monitoring and reporting solution that can help IT administrators quickly identify where the problems are and how best to resolve them. Using System Center Operations Manager (OpsMgr), administrators get a full monitoring overview of the IT services they have responsibility for across the organization - along with some useful management capabilities to help them remediate any issues they've been alerted to. This book begins with an introduction to OpsMgr and its core concepts and then walks you through designing and deploying the various roles. After a chapter on exploring the consoles, you will learn how to deploy agents, work with management packs, configure network monitoring and model your IT services using distributed applications. There's a chapter dedicated to alert tuning and another that demonstrates how to visualize your IT using dashboards. The final chapters in the book discuss how to create alert subscriptions, manage reports, backup and recover OpsMgr, perform maintenance and troubleshoot common problems. Style and approach A beginner's guide that focuses on providing the practical skills required to effectively deploy and administer OpsMgr with walkthrough examples and tips on all the key concepts. Microsoft System Center Enterprise Suite Unleashed is the first and only definitive real-world guide to the entire Microsoft System Center Enterprise Suite. It brings together tips, tricks, best practices, and lessons learned by top consultants who've deployed System Center in some of the world's largest enterprises and most successful small businesses. Drawing on years of early adopter and production experience, Rand Morimoto, Chris Amaris, and their team cover the entire System Center lifecycle and its components for system configuration, operations management, data protection, virtual machine management, help desk support, change management, asset control, capacity planning, and mobile device management. You'll learn about individual components and how to integrate them to build automated, exceptionally efficient managed environments. For smaller businesses, the book also presents Microsoft's streamlined, lower-cost IT management offering, System Center Essentials 2010. Use System Center Configuration Manager 2007 to image, update, manage, and support servers and clients Proactively monitor your systems to identify and fix problems before they fail Use System Center Data Protection Manager 2010 to provide reliable, timely backup/recovery Implement and manage all aspects of virtualization, including virtual guest sessions on both Microsoft Hyper-V and VMware Make the most of System Center Service Manager 2010's integrated tools for managing help desks, incidents, assets, and changes Use System Center Capacity Planner to properly size, procure, and deploy new systems Remotely track, secure, patch, update, and support mobile devices with System Center Mobile Device Manager Simplify small business IT management with System Center Essentials 2010's wizards and auto-configuration components For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. Part of a series of specialized guides on System Center - this book provides focused drilldown on managing servers. Led by series editor Mitch Tulloch, a team of System Center experts step you through key technical scenarios and management tasks. Blade server systems and virtualization are key building blocks for Next Generation Enterprise Data centers Blades offer modular, pre-wired, ultra high-density servers (up to 10x traditional servers) with shared components (power, cooling, switches) - reducing complexity and cost, and improving flexibility, availability, manageability, and maintainability Virtualization enables consolidation of physical servers by allowing many virtual servers to run concurrently on one physical server - improving system utilization, reducing the total number of physical servers, reducing costs, and increasing flexibility This is the first book covering these complementary technologies and how, together, they provide a strong foundation for the future It examines the history, architectures, features, examples, and user case studies of blade systems and virtualization, and offers guidance and considerations for how to evaluate and implement solutions Focused technical guidance from System Center experts Part of a series of specialized guidance on System Center--this book provides a single end-to-end resource on Microsoft's software-defined datacenter solution built upon Windows Server 2012 R2 Hyper-V and System Center 2012 R2 Virtual Machine Manager. The book walks you through a proof of concept (POC) deployment of a software-defined compute, storage, and networking infrastructure, starting from racking bare-metal servers through to the streamlined deployment of virtual machines. This is the comprehensive reference and technical guide to Microsoft System Center Configuration Manager 2012. A team of expert authors offers step-by-step coverage of related topics in every feature area, organized to help IT professionals rapidly optimize Configuration Manager 2012 for their requirements, and then deploy and use it successfully. The authors begin by introducing Configuration Manager 2012 and its goals, and explaining how it fits into the broader System Center product suite. Next, they fully address planning, design, and implementation. Finally, they systematically cover each of Configuration Manager 2012's most important feature sets, addressing issues ranging from configuration management to software distribution. Readers will learn how to use Configuration Manager 2012's user-centric capabilities to provide anytime/anywhere services and software, and to strengthen both control and compliance. The first book on Configuration Manager 2012, System Center Configuration Manager 2012 Unleashed joins Sams' market-leading series of books on Microsoft's System Center product suite: books that have achieved go-to status amongst IT implementers and administrators worldwide. Over 60 applicable recipes to administer and manage System Center Configuration Manager Current Branch About This Book Overcome the challenges of administering System Center Configuration Manager when deploying single and multiple-hierarchy sites Help your organization to build a custom-line of business apps and also protect the server against malware threats with Endpoint protection Get easy guidance and best practices to help you work with SCCM Who This Book Is For If you are an intermediate to advanced administrator who wants to administer SCCM and understand how to solve particular problems/scenarios, then this book is for you. You should have a working knowledge of SCCM, however, knowledge of the latest version is not required. What

You Will Learn Administer System Center Configuration Manager Upgrade computers from Windows 7/ 8.x to Windows 10, using Service Plans to keep Windows 10 machines up to date Manage Compliance Settings effectively and monitor it with SSRS Manage Sites in System Center Configuration Manager and also learn to create collections, leverage role-based administration (RBA), and support clients over the internet without a VPN connection Implement multiple methods to deploy the client, as well as how to be proactive in monitoring client agent health Achieve Mobile device management with Microsoft Intune In Detail This practical cookbook is based on the 1602 current branch of System Center Configuration Manager (SCCM). It shows you how to administer SCCM, giving you an essential toolbox of techniques to solve real-world scenarios. Packed with over 60 task-based and instantly usable recipes, you'll discover how design a SCCM Infrastructure, and dive into topics such as the recommended SQL configuration for SCCM and how to deploy Windows 10 with Operating System Deployment (OSD). You will learn to easily manage Windows 10 devices by deploying applications, software updates, and feature upgrades, and be able to leverage Mobile Device Management (MDM) using SCCM and Microsoft Intune. Finally, you see how to gather the inventory of all your PC park and create reports based on it. By the end of the book, you will have learned the best practices when working with SCCM and have a handy reference guide for troubleshooting. Style and approach This cookbook is full of quick recipes that show you how to administer SCCM and will help you understand how to solve particular problems/situations encountered in day-to-day tasks. The goal of this text is to describe the technical design aspects of the IT infrastructure; it does not give the details of installing and customizing SAP software, nor business process reengineering. Using primarily HP products for the solution examples, the chapters guide the reader through the foundation of the systems from an IT perspective, reviews its business application and architecture and introduces the server systems, then describes data storage, high availability and recovery solutions, client PCs with front-end user interfaces, output management and printing solutions, network infrastructure and requirements, cabling designs, LANs and WANs, and connecting mySAP.com to the Internet. Both authors are members of the HP-SAP International Competence Center. Annotation copyrighted by Book News, Inc., Portland, OR NOTE: This title is also available as a free eBook. It is offered for sale in print format as a convenience. Get a head start evaluating System Center 2012 R2 - with technical insights from a Microsoft MVP and members of the System Center product team. This guide introduces new features and capabilities, with scenario-based advice on how the platform can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now. Preview new features and enhancements, including: Virtual Machine Manager App Controller Configuration Manager Data Protection Manager Operations Manager Advisor Service Manager Orchestrator This book is perfect for IT administrators who are looking to enhance their skills on system and asset management. A fair understanding of the core elements and applications related to SCCM would be helpful. By using Microsoft's new Opalis IT process automation software, your IT organization can dramatically reduce operational costs and improve efficiency by replacing resource-intensive, error-prone manual activities with standardized, automated processes. Microsoft doesn't sell Opalis as a separately licensed product: thousands of customers who've licensed Microsoft System Center with SMSE/D already have the rights to use it. They simply have to learn how. If this sounds like you, System Center Opalis Integration Server 6.3 Unleashed will help you do so. This book's expert author team offers you start-to-finish, step-by-step coverage of implementing key Opalis 6.3 features for maximum business value. Drawing on their extensive experience, they bring together coverage of related topics and techniques in ways that enable you and IT professionals to deploy Opalis more quickly and apply it more successfully. The authors begin with a high-level overview of Opalis 6.3 and the potential value it offers to your IT organization. Next, it guides you through architecture, installation, policy basics and design, foundation objects and integration packs, the SDK, and best practices based on real-world implementations. Plan, design, and deploy System Center Configuration Manager 1706 like never before, regardless of how complex your infrastructure is About This Book The most up-to-date resource on deploying or migrating to System Center Configuration Manager 1706 within your IT infrastructure Plan, design, and deploy ConfigMgr 1706 with ease, both on primary and multiple-hierarchy sites Master the new features of ConfigMgr 1706, including Windows 10 support Who This Book Is For If you are a system engineer or an administrator planning to deploy Microsoft System Center Configuration Manager 1706, then this book is for you. This book will also benefit system administrators who are responsible for designing and deploying one or more System Center Configuration Manager 1706 sites in their new or existing systems. What You Will Learn Install ConfigMgr servers and the necessary roles Design and scale ConfigMgr environments Configure and administrate essential ConfigMgr roles and features Create software packages using .msi and .exe files Deliver detailed reports with an automatic patching process Apply proper hardening on your deployment and secure workstations Deploy operating systems and updates leveraging ConfigMgr mechanisms Create high-availability components using the built-in mechanism for backup and recovery In Detail It becomes important to plan, design, and deploy configurations when administrators know that Configuration Manager interacts with a number of infrastructure components such as Active Directory Domain Services, network protocols, Windows Server services, and so on. Via real-world-world deployment scenarios, this book will help you implement a single primary site or multiples sites. You will be able to efficiently plan and deploy a multiple-site hierarchy such as central administration site. Next, you will learn various methods to plan and deploy Configuration Manager clients, secure them and make the most of new features offered through ConfigMgr 1706 like compliance, deploying updates operating systems to the endpoints. Then, this book will show you how to install, configure, and run SQL reports to extract information. Lastly, you will also learn how to create and manage users access in an ConfigMgr environment By the end of this book, you will have learned to use the built-in mechanism to back up and restore data and also design maintenance plan. Style and approach This step-by-step guide teaches you cool ways to plan, deploy, and configure ConfigMgr 1706. This tutorial, which complements the release of ConfigMgr 1706 with a refreshing new approach and expert guidance, will teach you everything you need to know about the essentials of server. Discover how to simplify your data center architecture, reduces costs, and improve speed and agility with Cisco UCS at your side About This Book Learn how to reduce equipment and operating costs, consolidate resources, and automate data center processes Eliminate manual, time-consuming tasks that were traditionally required to connect servers in data centers A practical hands-on guide that will help you to deploy servers and application stacks with ease Who This Book Is For This book is for system, network, and storage administrators who are responsible for Cisco UCS deployments. You need to have basic knowledge of server architecture, network, and storage technologies. What You Will Learn Set up your Lab using Cisco UCS Emulator Configure Cisco UCS, LAN, and SAN connectivity Create and manage Service profiles Perform various tasks using UCS Backup and restore Cisco UCS configuration Test various Cisco UCS scenarios Manage and automate multiple domains In Detail Cisco Unified Computer System (UCS) is a powerful solution for modern data centers and is responsible for increasing efficiency and reducing costs. This hands-on guide will take you through deployment in Cisco UCS. Using real-world examples of configuring and deploying Cisco UCS components, we'll prepare you for the practical deployments of Cisco UCS data center solutions. If you want to develop and enhance your hands-on skills with Cisco UCS solutions, this book is certainly for you. We start by showing you the Cisco UCS equipment options then introduce Cisco UCS Emulator so you can learn and practice deploying Cisco UCS components. We'll also introduce you to all the areas of UCS solutions through practical configuration examples. Moving on, you'll explore the Cisco UCS Manager, which is the centralized management interface for Cisco UCS. Once you get to know UCS Manager, you'll dive deeper into configuring LAN, SAN, identity pools, resource pools, and service profiles for the servers. You'll also get hands-on with administration topics including backup, restore, user's roles, and high availability cluster configuration. Finally, you will learn about virtualized networking, third-party integration tools, and testing failure scenarios. By the end of this book, you'll know everything you need to know to rapidly grow Cisco UCS deployments in the real world. Style and approach This hands-on book takes a tutorial-based approach to help you understand the practical methodologies and deployment of Cisco UCS components. Mastering System Center Configuration Manager 2007 provides intermediate and advanced coverage of all aspects of the product, including planning and installation, upgrading Systems Management Server 2003, deploying software and operating systems, security, monitoring and troubleshooting, and automating and customizing SCCM 2007 with scripts. The authors take a hands-on approach by providing many real-world scenarios to show readers how to use the tool in various contexts. This anchors the conceptual explanations in practical application. This book's web site will contain a collection of ready-to-use scripts with directions for implementing them in network systems. Part of a series of specialized guides on System Center - this book provides focused guidance for deploying and customizing Service Manager, an integrated platform for automating and adapting an organization's IT service management best practices. Led by series

editor Mitch Tulloch, a team of System Center experts step you through key technical scenarios and tasks. Maximize your administration skills effectively and efficiently Key Features Implement cost-effective virtualization solutions for your organization with actionable recipes Explore the concepts of VMM with real-world use cases Use the latest features with VMM 2016 such as Cluster OS Rolling Upgrade, Guarded Fabric and Storage Spaces Direct Book Description Virtual Machine Manager (VMM) 2016 is part of the System Center suite to configure and manage datacenters and offers a unified management experience on-premises and Azure cloud. This book will be your best companion for day-to-day virtualization needs within your organization, as it takes you through a series of recipes to simplify and plan a highly scalable and available virtual infrastructure. You will learn the deployment tips, techniques, and solutions designed to show users how to improve VMM 2016 in a real-world scenario. The chapters are divided in a way that will allow you to implement the VMM 2016 and additional solutions required to effectively manage and monitor your fabrics and clouds. We will cover the most important new features in VMM 2016 across networking, storage, and compute, including brand new Guarded Fabric, Shielded VMs and Storage Spaces Direct. The recipes in the book provide step-by-step instructions giving you the simplest way to dive into VMM fabric concepts, private cloud, and integration with external solutions such as VMware, Operations Manager, and the Windows Azure Pack. By the end of this book, you will be armed with the knowledge you require to start designing and implementing virtual infrastructures in VMM 2016. What you will learn Plan and design a VMM architecture for real-world deployment Configure fabric resources, including compute, networking, and storage Create and manage Storage Spaces Direct clusters in VMM Configure Guarded Fabric with Shielded VMs Create and deploy virtual machine templates and multi-tier services Manage Hyper-V and VMware environments from VMM Enhance monitoring and management capabilities Upgrade to VMM 2016 from previous versions Who this book is for If you are a solutions architect, technical consultant, administrator, or any other virtualization enthusiast who needs to use Microsoft System Center Virtual Machine Manager in a real-world environment, then this is the book 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 This IBM® Redpaper™ publication will guide the user through the installation, configuration, and administration of IBM Communications Server for Data Center Deployment V7.0. It is not intended to be all-inclusive. Rather, it builds on previous publications referenced throughout the document. The focus is on the consolidation of Systems Network Architecture (SNA) resources, key features and functions available in IBM Communications Server for Data Center Deployment, and the Web Administration package specific to the Linux platform. This is the definitive real-world guide to Microsoft System Center 2012, Microsoft's newest and most powerful version of System Center. Authored by consultants who've deployed System Center in hundreds of enterprises and innovative smaller businesses, this book brings together up-to-the-minute tips, tricks, and techniques you just won't find anywhere else. You'll learn how to use System Center's powerful capabilities to build highly-efficient managed environments that encompass datacenters, cloud environments, client computers, mobile devices, and more. The authors address planning, design, implementation, integration, and administration, and cover every component, including Configuration Manager, Operations Manager, Data Protection Manager, Virtual Machine Manager, Service Manager, and Orchestrator. Use Configuration Manager 2012 to deliver software and updates in highly-distributed environments including datacenters, clouds, and mobile devices Reliably manage and report on assets with Configuration Manager 2012 Perform monitoring, alerting, operations, and security reporting with Operations Manager 2012 Use Data Protection Manager 2012 to protect file systems, SQL, Microsoft Exchange, and SharePoint Leverage Data Protection Manager 2012's improved central monitoring and remote recovery Run Hyper-V virtualized environments with VMM 2012—including new private clouds and mixed private/public fabrics Use Service Manager 2012 to provide top-down integration, and use Orchestrator 2012 for bottom-up process automation and integration "glue" Give users an efficient self-service portal for creating service and incident requests and browsing service catalogs Manage service offerings and implement enterprise-wide change control with Service Manager 2012 Ensure compliance by creating, executing, and repeating auditable, documented processes with Orchestrator 2012 Live Communications Server is an emerging technology that will be an important component of Microsoft's business solutions in the coming years; this book is the ultimate guide to LCS The expert authors cover audio and video conferencing and explain how to integrate VoIP and other telephone systems Shows readers how to secure instant messaging both within and outside of a company Explains how LCS integrates comfortably with products such as Office, Exchange Server, and Active Directory, a factor that makes LCS a must-know technology Energy Efficient Servers: Blueprints for Data Center Optimization introduces engineers and IT professionals to the power management technologies and techniques used in energy efficient servers. The book includes a deep examination of different features used in processors, memory, interconnects, I/O devices, and other platform components. It outlines the power and performance impact of these features and the role firmware and software play in initialization and control. Using examples from cloud, HPC, and enterprise environments, the book demonstrates how various power management technologies are utilized across a range of server utilization. It teaches the reader how to monitor, analyze, and optimize their environment to best suit their needs. It shares optimization techniques used by data center administrators and system optimization experts at the world's most advanced data centers. Modern computing is no longer about devices but is all about providing services, a natural progression that both consumers and enterprises are eager to embrace. As it can deliver those services, efficiently and with quality, at compelling price levels, cloud computing is with us to stay. Ubiquitously and quite definitively, cloud computing is SmartCloud Control Desk is a comprehensive IT Asset and Service Management solution that helps reduce cost and minimize service disruptions. It does so through automated service request handling, efficient change management, and optimized asset lifecycle management across IT and enterprise domains. SmartCloud Control Desk helps to reduce total cost of ownership by using one unified solution to license, install, and manage multiple ITIL processes under one price point. It can also help reduce business risk by using advanced impact analysis and defining automated change procedures that ensure integrity of existing infrastructure while supporting business agility. SmartCloud Control Desk improves efficiency and quality of service by unifying asset, change, and problem management. It lowers cost and mitigates license compliance risk by performing end to end software asset management. It also delivers an adaptive, role-based simplified UI that can be more intuitive for novice users, which reduces training costs, while allowing access from anywhere at anytime through mobile device support that includes BlackBerry, iOS, and Android. In addition, SmartCloud Control Desk supports both a profit center business model for internal IT organizations, and an external Service Provider model. It allows organizations to manage customers and customer agreements and bills for managed assets, usage, and work activities while improving utilization rates and reducing unnecessary purchases by managing the IT asset lifecycle. You can deploy SmartCloud Control Desk in a variety of ways; traditional on-premise, SaaS, VM image. This approach can make it more affordable to meet your current business needs, and seamlessly move between delivery models while keeping the same functionality. This IBM® Redbooks® publication covers IBM SmartCloud® Control Desk product configuration, customization, and implementation best practices. If you are tasked with monitoring the IT infrastructure within your organization, this book demonstrates how System Center 2012 R2 Operations Manager offers a radical and exciting solution to modern administration. Part of a series of specialized guides on System Center - this book delivers a focused overview of network virtualization capabilities and cloud computing scenarios. Series editor Mitch Tulloch and a team of System Center experts provide concise technical guidance as they step you through key technical scenarios and considerations. The complete guide to provisioning and managing cloud-based Infrastructure as a Service (IaaS) data center solutions Cloud computing will revolutionize the way IT resources are deployed, configured, and managed for years to come. Service providers and customers each stand to realize tremendous value from this paradigm shift—if they can take advantage of it. Cloud Computing brings

together the realistic, start-to-finish guidance they need to plan, implement, and manage cloud solution architectures for tomorrow's virtualized data centers. It introduces cloud "newcomers" to essential concepts, and offers experienced operations professionals detailed guidance on delivering Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). This book's replicable solutions and fully-tested best practices will help enterprises, service providers, consultants, and Cisco partners meet the challenge of provisioning end-to-end cloud infrastructures. Drawing on extensive experience working with leading cloud vendors and integrators, the authors present detailed operations workflow examples, proven techniques for operating cloud-based network, compute, and storage infrastructure; a comprehensive management reference architecture; and a complete case study demonstrating rapid, lower-cost solutions design. Cloud Computing will be an indispensable resource for all network/IT professionals and managers involved with planning, implementing, or managing the next generation of cloud computing services. Venkata (Josh) Josyula, Ph.D., CCIE® No. 13518 is a Distinguished Services Engineer in Cisco Services Technology Group (CSTG) and advises Cisco customers on OSS/BSS architecture and solutions. Malcolm Orr, Solutions Architect for Cisco's Services Technology Solutions, advises telecoms and enterprise clients on architecting, building, and operating OSS/BSS and cloud management stacks. He is Cisco's lead architect for several Tier 1 public cloud projects. Greg Page has spent the last eleven years with Cisco in technical consulting roles relating to data center architecture/technology and service provider security. He is now exclusively focused on developing cloud/IaaS solutions with service providers and systems integrator partners.

- Review the key concepts needed to successfully deploy clouds and cloud-based services
- Transition common enterprise design patterns and use cases to the cloud
- Master architectural principles and infrastructure designs for "real-time" managed IT services
- Understand the Cisco approach to cloud-related technologies, systems, and services
- Develop a cloud management architecture using ITIL, TMF, and ITU-TMN standards
- Implement best practices for cloud service provisioning, activation, and management
- Automate cloud infrastructure to simplify service delivery, monitoring, and assurance
- Choose and implement the right billing/chargeback approaches for your business
- Design and build IaaS services, from start to finish
- Manage the unique capacity challenges associated with sporadic, real-time demand
- Provide a consistent and optimal cloud user experience

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Covers: Virtualized Data Centers Live Communications Server (LCS) is a recent release in Microsoft's core server suite that enables unified communications across an office through a variety of devices, including phones, web conferences, and the Internet. This book provides straightforward technical information that only those with detailed knowledge of the problems customers have experienced in deploying and managing Live Communications Server can provide. The book is practical, guided, and comprehensive. It is written by a freelance LCS expert and a Microsoft product manager on the LCS team.

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The best enterprise IT organizations have discovered the secret to high-performance infrastructure management: build a true Production Services function and realistic Production Acceptance processes. By doing so, they've achieved outstanding reliability, availability, and serviceability... transforming themselves from overpriced support centers into world-class service providers. IT Production Services shows you how to do it, too. Drawing on data compiled from 200+ enterprise IT assessments, it's your start-to-finish guide for effective IT infrastructure management in business-critical environments. Presents "Ten Commandments" for designing cost-effective, efficient IT organizations

Covers all three key ingredients: people, processes, and technology Shows why transitioning systems straight from development to operations is a recipe for failure Includes case studies from the authors' experience consulting with Fortune 500 and Global 2000 companies Answers today's most frequently asked questions about managing IT infrastructure Shows how to infuse accountability throughout your IT organization Endorsed by CIOs and senior executives at Symantec, Thomson Financial, The Weather Channel, Agway, and many other leading firms Whether you're a CxO, IT director, manager, or architect, IT Production Services will help you optimize your IT organization -- hands-on.

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