

# **It Operations Run Book Template**

*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.*

*Legend has it that Google deploys over two billion application containers a week. How's that possible? Google revealed the secret through a project called Kubernetes, an open source cluster*

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***orchestrator (based on its internal Borg system) that radically simplifies the task of building, deploying, and maintaining scalable distributed systems in the cloud. This practical guide shows you how Kubernetes and container technology can help you achieve new levels of velocity, agility, reliability, and efficiency. Authors Kelsey Hightower, Brendan Burns, and Joe Beda—who've worked on Kubernetes at Google and other organizations—explain how this system fits into the lifecycle of a distributed application. You will learn how to use tools and APIs to***

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***automate scalable distributed systems, whether it is for online services, machine-learning applications, or a cluster of Raspberry Pi computers. Explore the distributed system challenges that Kubernetes addresses Dive into containerized application development, using containers such as Docker Create and run containers on Kubernetes, using the docker image format and container runtime Explore specialized objects essential for running applications in production Reliably roll out new software versions without downtime or errors Get examples of how to***

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***develop and deploy real-world applications in Kubernetes  
Intended for the students who are prepared for the Level 2 SVQ/NVQ and Technical Certificate in Plastering. It features accessible, jargon-free style that is written with the needs of the Level 2 learner in mind, with learning broken down into manageable, bite-sized chunks to ensure accessibility of content every step of the way.***

***Looking for a solid introduction to the TTCN-3 language and its use? An Introduction to TTCN-3 is just what you need. All the important concepts and***

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***constructs of the language are explained in a tutorial style with the emphasis on extensive examples. Throughout the author also addresses the larger picture of how the testing language is related to the overall test system implementation. A complete tutorial reference on TTCN-3 with real-world examples and expert advice based on author's practical industrial experience using the standard. Offering a unique insider perspective: Nokia has been instrumental in the development of both the language and tools associated with TTCN-3 and the author is***

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***in a unique position to document this experience to help and guide new users. And an associated web site that contains code samples from the book and links to the relevant standards documents. This book provides the perfect companion to the available TTCN-3 language standards filling the gaps in areas such as style guide, structuring, and pointing out the dangers or pitfalls based on the author's personal TTCN-3 experience from language standardization, tool implementation and applying TTCN-3 for a number of years in the real world. The style and***

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***level of the book make it suitable for both engineers learning and applying the language in the real world and students learning TTCN-3 as part of their studies.***

***System Center 2012***

***Orchestrator Unleashed***

***Effective DevOps with AWS***

***With ARM templates and Bicep***

***Open Source SQL Databases***

***for Managing Information & Web Sites***

***How Google Runs Production Systems***

***Microsoft System Center***

***Designing Orchestrator***

***Runbooks***

Combines language tutorials with application design advice to

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cover the PHP server-side scripting language and the MySQL database engine.

Virtualization, cloud, containers, server automation, and software-defined networking are meant to simplify IT operations. But many organizations adopting these technologies have found that it only leads to a faster-growing sprawl of unmanageable systems. This is where infrastructure as code can help. With this practical guide, author Kief Morris of ThoughtWorks shows you how to effectively use principles, practices, and patterns pioneered through the DevOps movement to manage cloud age infrastructure. Ideal for



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system administrators, infrastructure engineers, team leads, and architects, this book demonstrates various tools, techniques, and patterns you can use to implement infrastructure as code. In three parts, you'll learn about the platforms and tooling involved in creating and configuring infrastructure elements, patterns for using these tools, and practices for making infrastructure as code work in your environment. Examine the pitfalls that organizations fall into when adopting the new generation of infrastructure technologies. Understand the capabilities and service models of dynamic

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infrastructure platforms Learn about tools that provide, provision, and configure core infrastructure resources Explore services and tools for managing a dynamic infrastructure Learn specific patterns and practices for provisioning servers, building server templates, and updating running servers

This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and evaluation of public service

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projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users.

Were you looking for the book with access to MyLab Operations Management? This product is the book alone and does NOT come with access to the MyLab. Buy Operations Management, 8th edition with MyLab Operations Management access card (ISBN 9781292254036) if you need access to the MyLab as well, and save money on this resource. You will also need a course ID from your instructor to access

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the MyLab. Operations management is important, exciting, challenging ... and everywhere you look! · Important, because it enables organizations to provide services and products that we all need · Exciting, because it is central to constant changes in customer preference, networks of supply and demand, and developments in technology · Challenging, because solutions must be must be financially sound, resource-efficient, as well as environmentally and socially responsible · And everywhere, because in our daily lives, whether at work or at home, we all experience and manage

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processes and operations.

The Big Ideas Behind Reliable,  
Scalable, and Maintainable  
Systems

The Markdown Guide

Delivering Consistency and  
Automation with Operational  
Runbooks

Modern Data Protection

Ten Strategies of a World-Class  
Cybersecurity Operations Center

Graphical Jython UI and Scripts  
Development using Java Swing  
and WebSphere Application

Server

***The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the technically uninclined how to***

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***write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In this fully revised second edition of the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python to write programs that do in***

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***minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV files. You'll learn how to create***

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***programs that effortlessly perform useful feats of automation to:***

- Search for text in a file or across multiple files***
- Create, update, move, and rename files and folders***
- Search the Web and download online content***
- Update and format data in Excel spreadsheets of any size***
- Split, merge, watermark, and encrypt PDFs***
- Send email responses and text notifications***
- Fill out online forms***

***Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to***



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***improve those programs and use your newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in Automate the Boring Stuff with Python, 2nd Edition.***

***Prepare for Microsoft Exam 70-246—and help demonstrate your real-world mastery of monitoring and operating a private cloud based on Microsoft System Center 2012 R2. Designed for experienced IT professionals ready to***

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***advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the MCSE level. Focus on the expertise measured by these objectives: Configure data center process automation Deploy resource monitoring Monitor resources Configure and maintain service management Manage configuration and protection This Microsoft Exam Ref: Organizes its coverage by objectives for Exam 70-246 Features strategic, what-if scenarios to challenge you Requires experience with***

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***Windows Server, System Center 2012, security, high availability, fault tolerance, and networking in an enterprise environment, and basic skills with SQL Server, Windows PowerShell, and application configuration***

***Simple Network Management Protocol (SNMP) provides a "simple" set of operations that allows you to more easily monitor and manage network devices like routers, switches, servers, printers, and more. The information you can monitor with SNMP is wide-ranging--from standard items, like the amount of traffic***

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***flowing into an interface, to far more esoteric items, like the air temperature inside a router. In spite of its name, though, SNMP is not especially simple to learn. O'Reilly has answered the call for help with a practical introduction that shows how to install, configure, and manage SNMP. Written for network and system administrators, the book introduces the basics of SNMP and then offers a technical background on how to use it effectively. Essential SNMP explores both commercial and open source packages, and elements like***

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***OIDs, MIBs, community strings, and traps are covered in depth. The book contains five new chapters and various updates throughout. Other new topics include: Expanded coverage of SNMPv1, SNMPv2, and SNMPv3 Expanded coverage of SNMPc The concepts behind network management and change management RRDTOol and Cricket The use of scripts for a variety of tasks How Java can be used to create SNMP applications Net-SNMP's Perl module The bulk of the book is devoted to discussing, with real examples, how to use***

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***SNMP for system and network administration tasks.***

***Administrators will come away with ideas for writing scripts to help them manage their networks, create managed objects, and extend the operation of SNMP agents. Once demystified, SNMP is much more accessible. If you're looking for a way to more easily manage your network, look no further than Essential SNMP, 2nd Edition. There is a greater need today to integrate and unify IT delivery through tools that provide capabilities in advanced analytics and***

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***automation. IBM® has recently introduced two integrated services on the software as a service (SaaS) model that effectively combine advanced analytics capabilities with automation. These two services are IBM Alert Notification service and the IBM Runbook Automation service. Both services are available to everyone including existing IBM Netcool® Operations Insight™ customers. IBM Alert Notification is a separately available SaaS service to deliver alert notification. IBM Runbook***

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***Automation is also a new SaaS service to deliver Runbook Automation. IBM Runbook Automation is a hybrid service that is designed for both cloud and on-premises integrations. This IBM Redpaper™ publication provides a technical overview of these two services and explains the concepts within the context of scenarios and use cases. The target audience for this paper is network specialists, network operators, and network administrators.***

***Microsoft System Center 2012  
Unleashed  
Site Reliability Engineering***



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***Hugo in Action***

***Azure Infrastructure as Code***

***Essential SNMP***

***Ready Player One***

***Project Managers leading massive IT projects--defined as projects rolling out deliverables across geographic boundaries with budgets ranging well into the millions--need a unique level of expertise and an arsenal of personal and professional skills to successfully accomplish their tasks. Large IT initiatives inherently contain business conditions, technology quirks, and participant and managerial agendas that make them exceedingly difficult to execute. Complex IT Project Management: Sixteen Steps to Success reveals***

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***a project management process that the author has proven to be successful in many complex real-world projects. Each step is presented in its logical sequence, with the connections between management methods and project goals clearly defined. The author often refers to the successful tactics he employed, providing you with a strategy to overcome the challenges found in even the most intricate IT projects. This book stands as the perfect tool for project managers at all levels of experience who plan to tackle a high-profile initiative. It also serves as a guide for project sponsors searching for the right manager, and for consultants recommending best practices for***

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***the workplace.***

***Static websites—sites with fixed content—are the simplest type of web pages. In addition to being easier to create and maintain, they're inherently more secure than dynamic pages. And with the Hugo static site engine, you can render them in milliseconds.***

***Hugo in Action is a step-by-step guide to using Hugo to create static websites that really show off the advantages of simplicity. Working with a complete example website and source code samples, you'll learn how to build and host a low-maintenance, high-performance site that will wow your users and stay stable without relying on a third-party server. Purchase of the print book includes a free eBook in***

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***PDF, Kindle, and ePub formats from Manning Publications. Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for***

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***processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes***

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***of major online services, and learn from their architectures***  
***The Open Group IT4ITTM Reference Architecture, Version 2.1, an Open Group Standard, provides a vendor-neutral, technology-agnostic, and industry-agnostic reference architecture for managing the business of IT. The Open Group IT4IT Reference Architecture standard comprises a reference architecture and a value chain-based operating model. The IT Value Chain has four value streams supported by a reference architecture to drive efficiency and agility. The four value streams are: • Strategy to Portfolio • Request to Fulfill • Requirement to Deploy • Detect to Correct Each IT Value Stream is***

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***centered on a key aspect of the service model, the essential data objects (information model), and functional components (functional model) that support it. Together, the four value streams play a vital role in helping IT control the service model as it advances through its lifecycle. The IT4IT Reference Architecture:***

- Provides prescriptive guidance on the specification of and interaction with a consistent service model backbone (common data model/context)***
- Supports real-world use-cases driven by the Digital Economy (e.g., Cloud-sourcing, Agile, DevOps, and service brokering)***
- Embraces and complements existing process frameworks and***

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**methodologies (e.g., ITIL® , CoBIT®, SAFe, and TOGAF®) by taking a data-focused implementation model perspective, essentially specifying an information model across the entire value chain**

**The audience for this standard is:**

- **IT Professionals who are responsible for delivering services in a way that is flexible, traceable, and cost-effective**
- **IT Professionals / Practitioners who are focused on instrumenting the IT management landscape**
- **IT Leaders who are concerned about their operating model**
- **Enterprise Architects who are responsible for IT business transformation**

**Topics covered include:**

- **An introduction to the standard and the purpose of the**



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***IT4IT work• Key terminology of the standard• An introduction for executives and others introducing the IT Value Chain and IT4IT Reference Architecture concepts• IT4IT Core, which defines the structure of the IT4IT standard as well as the process and document structure used by the IT4IT standard• The Strategy to Portfolio (S2P) Value Stream• The Requirement to Deploy (R2D) Value Stream• The Request to Fulfill (R2F) Value Stream• The Detect to Correct (D2C) Value Stream• Background information on the standard.***

***Infrastructure as Code  
Complex IT Project Management  
Static Sites and Dynamic  
Jamstack Apps  
Designing Data-Intensive***

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## ***Applications***

### ***A Revised Framework***

### ***Microsoft Azure Essentials Azure Automation***

From three design partners at Google Ventures, a unique five-day process--called the sprint--for solving tough problems using design, prototyping, and testing ideas with customers.

Using System Center 2012 Orchestrator, you can capture and document processes across your entire IT organization, establishing the automation you need to deliver advanced cloud services and self-adjusting computing resources. Authored

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by five leading System Center experts, this comprehensive reference and technical guide brings together all the knowledge you'll need to architect, install, implement, integrate, and maximize the value of your own Orchestrator solutions. The authors introduce current best practices based on large-scale enterprise implementations they've personally led or participated in. This up-to-date guide shows how to apply Orchestrator's major improvements to implement IT process automation in any environment, including private clouds. You'll start with context:

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what Orchestrator does, how it has evolved, how it works, and essential architecture and design techniques. Next, the authors help you make crucial up-front decisions about activities, runbooks, security, and administration. Finally, you'll find expert guidance for integrating Orchestrator with the rest of System Center and with Windows Azure cloud services—including advanced automated workflows that encompass both data center and cloud. Detailed information on how to...

- Understand System Center 2012 Orchestrator's capabilities, evolution,

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architecture, and design, including SP1 improvements and R2 • Successfully install System Center 2012 Orchestrator and migrate smoothly from Opalis Integration Server 6.3 • Take full advantage of Orchestrator's advanced new runbook automation capabilities • Configure activities associated with runbook control, systems, scheduling, monitoring, files, email, notification, and data handling • Design runbooks for fault tolerance and optimal performance • Enforce strong security using roles, permissions, and auditing • Deliver integration capabilities for Operations

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Manager, Service Manager, Configuration Manager, Virtual Machine Manager, and Data Protection Manager • Automate end-to-end data center/ cloud workflows with integration packs and PowerShell • Create your own integration packs with Orchestrator Integration Toolkit (OIT.SDK) • Support Orchestrator 2012, troubleshoot problems, and discover the best web and third-party resources Give your organization the data protection it deserves without the uncertainty and cost overruns experienced by your predecessors or other companies. System and network

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administrators have their work cut out for them to protect physical and virtual machines in the data center and the cloud; mobile devices including laptops and tablets; SaaS services like Microsoft 365, Google Workspace, and Salesforce; and persistent data created by Kubernetes and container workloads. To help you navigate the breadth and depth of this challenge, this book presents several solutions so you can determine which is right for your company. You'll learn the unique requirements that each workload presents, then explore various categories of commercial backup

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hardware, software, and services available to protect these data sources, including the advantages and disadvantages of each approach. Learn the workload types that your organization should be backing up Explore the hardware, software, and services you can use to back up your systems Understand what's wrong with your current data protection system Pair your backed-up workloads to the appropriate backup system Learn the adjustments that will make your backups better, without wasting money

This is the definitive real-world



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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,

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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

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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

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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  
Collaborative, Real-Time Cloud Financial Management  
Practical Programming for Total Beginners  
Geocomputation with R  
Managing Servers in the Cloud  
Exam Ref 70-246  
A practitioners guide to choosing relevant Big Data architecture  
Puppet is great for

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developers, system administrators, IT professionals, and anyone laying the foundation for DevOps practices - this comprehensive guide will get you up to speed, all the way from installation to automation to the latest features of Puppet 4.10. About This Book Develop skills to run Puppet 4.10 on single or multiple servers without hiccups Use Puppet to spin up and manage cloud resources such as Amazon

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EC2 instances Take full advantage of the powerful new features of Puppet 4.10, including loops, data types, structured facts, R10K module management, control repos, and EPP templates Who This Book Is For Puppet Beginner's Guide, Second Edition is designed for those who are new to Puppet, including system administrators and developers who are looking to manage computer server systems for configuration

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management. No prior programming or system administration experience is assumed.

What You Will Learn

Covers the latest Puppet 4.10 release  
Install and set up Puppet and discover the latest and most advanced features  
Configure, build, and run containers in production using Puppet's industry-leading Docker support  
Deploy configuration files and templates at super-fast speeds and manage user accounts and

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access control Automate  
your IT infrastructure  
Use the latest features  
in Puppet 4 onward and  
its official modules  
Manage clouds,  
containers, and  
orchestration Get to  
know the best practices  
to make Puppet more  
reliable and increase  
its performance In  
Detail Puppet 4.10  
Beginner's Guide, Second  
Edition, gets you up and  
running with the very  
latest features of  
Puppet 4.10, including  
Docker containers, Hiera



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data, and Amazon AWS cloud orchestration. Go from beginner to confident Puppet user with a series of clear, practical examples to help you manage every aspect of your server setup. Whether you're a developer, a system administrator, or you are simply curious about Puppet, you'll learn Puppet skills that you can put into practice right away. With practical steps giving you the key concepts you need, this book teaches

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you how to install packages and config files, create users, set up scheduled jobs, provision cloud instances, build containers, and so much more. Every example in this book deals with something real and practical that you're likely to need in your work, and you'll see the complete Puppet code that makes it happen, along with step-by-step instructions for what to type and what output you'll see. All the

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examples are available in a GitHub repo for you to download and adapt for your own server setup. Style and approach This tutorial is packed with quick step-by-step instructions that are immediately applicable for beginners. This is an easy-to-read guide, to learn Puppet from scratch, that explains simply and clearly all you need to know to use this essential IT power tool, while applying these solutions to real-

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world scenarios.  
Master ARM templates,  
Bicep scripting, and  
other Azure  
Infrastructure-as-Code  
tools, techniques, and  
practices to run  
application  
infrastructure on the  
Azure cloud. Azure  
Infrastructure as Code  
is a comprehensive guide  
to seamlessly managing  
your application  
infrastructure with  
Azure's native IaC  
tools. The book is aimed  
at supporting  
collaboration between

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operations professionals and software developers, to help speed up and improve the quality of software delivery. After you master the basics, you'll dive into niche and advanced topics such as testing, reusing templates between multiple teams, and how you can define policy as code. Discover cutting-edge Deployment Stacks, and how they can help you clean up unused resources, group resources in logical containers to help

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visualize potential changes, and build starting plateaus for other teams to work on. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. The Berkeley DB Book is intended to be a practical guide to the intricacies of Berkeley DB; an in-depth analysis of the complex design issues which are often covered in terse footnotes in the dense Berkeley DB reference

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manual. It explains the technology at a higher level and also covers the internals with generous code and design examples. Berkeley DB is becoming the database of choice for appliance makers and for in memory cache of large scale applications like search engines and high traffic web sites.

A compendium of health care quantitative techniques based in Excel Analytics and Decision Support in Health Care Operations

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is a comprehensive introductory guide to quantitative techniques, with practical Excel-based solutions for strategic health care management. This new third edition has been extensively updated to reflect the continuously evolving field, with new coverage of predictive analytics, geographical information systems, flow process improvement, lean management, six sigma, health provider productivity and



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benchmarking, project management, simulation, and more. Each chapter includes additional new exercises to illustrate everyday applications, and provides clear direction on data acquisition under a variety of hospital information systems. Instructor support includes updated Excel templates, PowerPoint slides, web based chapter end supplements, and data banks to facilitate classroom instruction, and working

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administrators will appreciate the depth and breadth of information with clear applicability to everyday situations. The ability to use analytics effectively is a critical skill for anyone involved in the study or practice of health services administration. This book provides a comprehensive set of methods spanning tactical, operational, and strategic decision making and analysis for both current and future

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health care  
administrators. Learn  
critical analytics and  
decision support  
techniques specific to  
health care  
administration Increase  
efficiency and  
effectiveness in problem-  
solving and decision  
support Locate  
appropriate data in  
different commonly-used  
hospital information  
systems Conduct  
analyses, simulations,  
productivity  
measurements,  
scheduling, and more

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From statistical techniques like multiple regression, decision-tree analysis, queuing and simulation, to field-specific applications including surgical suite scheduling, roster management, quality monitoring, and more, analytics play a central role in health care administration.

*Analytics and Decision Support in Health Care Operations* provides essential guidance on these critical skills that every professional

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needs.

Appraisal and Evaluation  
in Central Government :

Treasury Guidance

16 Steps to Success

The IT4IT™ Reference

Architecture, Version

2.1

Analytics and Decision

Support in Health Care

Operations Management

Microsoft System Center

2016 Service Manager

Cookbook

The Green Book

*Scale gracefully and maintain outstanding  
performance with your AWS-based*

*infrastructure using DevOps principles*

*About This Book Implement DevOps*

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*principles to take full advantage of the AWS stack and services Take expert look at solving problems faced by real developers and operation teams and learn to overcome them Learn from expert insights of the author who has worked with Silicon Valley's most high-profile companies Who This Book Is For This book is for developers, DevOps engineers and teams who want to build and use AWS for their software infrastructure. Basic computer science knowledge is required for this book. What You Will Learn Find out what it means to practice DevOps and what its principles are Build repeatable infrastructures using templates and configuration management Deploy multiple times a day by implementing continuous integration and continuous deployment pipelines Use the latest technologies, including containers and serverless computing, to scale your infrastructure Collect metrics and logs and*

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*implement an alerting strategy Make your system robust and secure In Detail The DevOps movement has transformed the way modern tech companies work. AWS which has been on the forefront of the Cloud computing revolution has also been a key contributor of this DevOps movement creating a huge range of managed services that help you implement the DevOps principles. In this book, you'll see how the most successful tech start-ups launch and scale their services on AWS and how you can too. Written by a lead member of Mediums DevOps team, this book explains how to treat infrastructure as code, meaning you can bring resources online and offline as necessary with the code as easily as you control your software. You will also build a continuous integration and continuous deployment pipeline to keep your app up to date. You'll find out how to scale your applications to offer maximum*

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*performance to users anywhere in the world, even when traffic spikes with the latest technologies, such as containers and serverless computing. You will also take a deep dive into monitoring and alerting to make sure your users have the best experience when using your service. Finally, you'll get to grips with ensuring the security of your platform and data. Style and approach This is a practical, hands-on, comprehensive guide to AWS, helping readers understand AWS in a step by step manner.*

*This book highlights the different types of data architecture and illustrates the many possibilities hidden behind the term "Big Data", from the usage of No-SQL databases to the deployment of stream analytics architecture, machine learning, and governance. Scalable Big Data Architecture covers real-world, concrete industry use cases that leverage complex distributed*



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*applications , which involve web applications, RESTful API, and high throughput of large amount of data stored in highly scalable No-SQL data stores such as Couchbase and Elasticsearch. This book demonstrates how data processing can be done at scale from the usage of NoSQL datastores to the combination of Big Data distribution. When the data processing is too complex and involves different processing topology like long running jobs, stream processing, multiple data sources correlation, and machine learning, it's often necessary to delegate the load to Hadoop or Spark and use the No-SQL to serve processed data in real time. This book shows you how to choose a relevant combination of big data technologies available within the Hadoop ecosystem. It focuses on processing long jobs, architecture, stream data patterns, log analysis, and real time analytics. Every pattern is illustrated with practical examples,*

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*which use the different open source projects such as Logstash, Spark, Kafka, and so on. Traditional data infrastructures are built for digesting and rendering data synthesis and analytics from large amount of data. This book helps you to understand why you should consider using machine learning algorithms early on in the project, before being overwhelmed by constraints imposed by dealing with the high throughput of Big data. Scalable Big Data Architecture is for developers, data architects, and data scientists looking for a better understanding of how to choose the most relevant pattern for a Big Data project and which tools to integrate into that pattern.*

*Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs),*

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*ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, [www.mitre.org](http://www.mitre.org).*

*Discover over 100 practical recipes to help you master the art of IT service management for your organization About This Book Unleash the capabilities of Microsoft System Center 2016 Service Manager Master the skills of configuring, deploying, managing, and troubleshooting your Service Manager 2016 This book*

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*contains practical recipes that leverage the key and newly added features and functionalities of Microsoft System Center 2016 Service Manager Who This Book Is For This book will be useful to IT professionals including SCSM administrators who want to configure and administer System Center Service Manager 2016 and understand how to solve specific problems and scenarios that arise. It will also be useful to users of Service Manager 2012 who want to learn about the new features and capabilities of the Service Manager 2016 release. It will be ideal if you have Service Manager experience as well as experience with other System Center products. What You Will Learn See a practical implementation of the ITSM framework and processes based on ITIL Deploy and configure the new Service Manager HTML5 Self-Service Portal along with Service Catalog design and*

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*configuration Get to know about Incident, Problem, and Change Management processes and configuration Get to grips with performing advanced personalization in Service Manager Discover how to set up and use automation with and within Service Manager 2016 Work with Service Manager Data Warehouse Find out what Security Roles are and how to implement them Learn how to upgrade from SCSM 2012 R2 to SCSM 2016 In Detail System Center Service Manager (SCSM) is an integrated platform that offers a simplified data center management experience by implementing best practices such as Incident Management, Service Request, and Change Control to achieve efficient service delivery across your organization. This book provides you with real-world recipes that can be used immediately and will show you how to configure and administer SCSM 2016. You'll also find out how to solve particular*

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*problems and scenarios to take this tool further. You'll start with recipes on implementing ITSM frameworks and processes and configuring Service Level Agreements (SLAs). Then, you'll work through deploying and configuring the HTML5 Self-Service Portal, configuring Incident and Problem Management, and designing and configuring Change and Release Management. You'll also learn about security roles and overall Microsoft SCSM 2016 administration. Toward the end of the book, we'll look at advanced topics, such as presenting the wealth of information stored within the Service Manager Data Warehouse, standardizing SCSM deployments, and implementing automation. Style and approach This book will enlighten you on Microsoft System Center 2016 Service Manager through recipes that can be implemented directly in any enterprise. You can read the book from*

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*start to end if you're a beginner, or just open up any chapter and start following the recipes as a reference for advanced users. This book consists of a pool of step-by-step recipes on how to perform activities in Service Manager.*

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*of humanity, Wade Watts escapes this depressing reality by spending his waking hours jacked into the OASIS, a sprawling virtual utopia where you can be anything you want to be, where you can live and play and fall in love on any of ten thousand planets. And like most of humanity, Wade is obsessed by the ultimate lottery ticket that lies concealed within this alternate reality: OASIS founder James Halliday, who dies with no heir, has promised that control of the OASIS - and his massive fortune - will go to the person who can solve the riddles he has left scattered throughout his creation. For years, millions have struggled fruitlessly*

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revised and up-to-date treatment of the TTCN-3 language TTCN-3 is an internationally standardised test language with a powerful textual syntax which has established itself as a global, universal testing language. Application of TTCN-3 has been widened beyond telecommunication systems to areas such as the automotive industry, internet protocols, railway signalling, medical systems, and avionics. An Introduction to TTCN-3 gives a solid introduction to the TTCN-3 language and its uses, guiding readers through the TTCN-3 standards, methodologies and

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tools with examples and advice based on the authors' extensive real-world experience. All the important concepts and constructs of the language are explained in a step-by-step, tutorial style, and the authors relate the testing language to the overall test system implementation, giving the bigger picture. This second edition of the book has been updated and revised to cover the additions, changes and extensions to the TTCN-3 language since the first version was published. In addition, this book provides new material on the use of XML, test framework design and LTE

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testing with TTCN-3. Key Features: Provides a fully revised and up-to-date look at the TTCN-3 language Addresses language standardization, tool implementation and applying TTCN-3 in real world scenarios such as VoIP and LTE testing Explores recent advances such as TTCN-3 core language extensions on type parameterization, behavior types, real time and performance testing Introduces the use of ASN.1 and XML with TTCN-3 Written by experts in the field Includes an accompanying website containing code samples and links to the relevant

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standards documents ([www.wiley.com/go/willcock\\_ttcn-3\\_2e](http://www.wiley.com/go/willcock_ttcn-3_2e))

This book is an ideal reference for test engineers, software developers, and standards professionals. Graduate students studying telecommunications and software engineering will also find this book insightful. Geocomputation with R is for people who want to analyze, visualize and model geographic data with open source software. It is based on R, a statistical programming language that has powerful data processing, visualization, and geospatial capabilities. The book equips you with the knowledge and



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skills to tackle a wide range of issues manifested in geographic data, including those with scientific, societal, and environmental implications. This book will interest people from many backgrounds, especially Geographic Information Systems (GIS) users interested in applying their domain-specific knowledge in a powerful open source language for data science, and R users interested in extending their skills to handle spatial data. The book is divided into three parts: (I) Foundations, aimed at getting you up-to-speed with geographic data in R, (II) extensions, which covers

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advanced techniques, and (III) applications to real-world problems. The chapters cover progressively more advanced topics, with early chapters providing strong foundations on which the later chapters build. Part I describes the nature of spatial datasets in R and methods for manipulating them. It also covers geographic data import/export and transforming coordinate reference systems. Part II represents methods that build on these foundations. It covers advanced map making (including web mapping), "bridges" to GIS, sharing reproducible code, and how to

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do cross-validation in the presence of spatial autocorrelation. Part III applies the knowledge gained to tackle real-world problems, including representing and modeling transport systems, finding optimal locations for stores or services, and ecological modeling. Exercises at the end of each chapter give you the skills needed to tackle a range of geospatial problems. Solutions for each chapter and supplementary materials providing extended examples are available at <https://geocompr.github.io/geocompkg/articles/>. Dr. Robin Lovelace is a University

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Academic Fellow at the University of Leeds, where he has taught R for geographic research over many years, with a focus on transport systems. Dr. Jakub Nowosad is an Assistant Professor in the Department of Geoinformation at the Adam Mickiewicz University in Poznan, where his focus is on the analysis of large datasets to understand environmental processes. Dr. Jannes Muenchow is a Postdoctoral Researcher in the GIScience Department at the University of Jena, where he develops and teaches a range of geographic methods, with a focus on

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ecological modeling, statistical geocomputing, and predictive mapping. All three are active developers and work on a number of R packages, including stplanr, sabre, and RQGIS.

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orchestrate frequent deployment and life cycle management tasks using runbooks based on Windows PowerShell Workflow functionality. These runbooks are stored in and backed up by Azure. By automating runbooks, you can greatly minimize the occurrence of errors when carrying out repeated tasks and process automation. Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the Microsoft Azure Essentials series.

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