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**Can a system be considered truly
reliable if it isn't fundamentally secure?
Or can it be considered secure if it's
unreliable? Security is crucial to the**

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design and operation of scalable systems in production, as it plays an important part in product quality, performance, and availability. In this book, experts from Google share best practices to help your organization design scalable and reliable systems that are fundamentally secure. Two previous O'Reilly books

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**from Google—Site Reliability
Engineering and The Site Reliability
Workbook—demonstrated how and why
a commitment to the entire service
lifecycle enables organizations to
successfully build, deploy, monitor, and
maintain software systems. In this latest
guide, the authors offer insights into**

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system design, implementation, and maintenance from practitioners who specialize in security and reliability. They also discuss how building and adopting their recommended best practices requires a culture that's supportive of such change. You'll learn about secure and reliable systems

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**through: Design strategies
Recommendations for coding, testing,
and debugging practices Strategies to
prepare for, respond to, and recover
from incidents Cultural best practices
that help teams across your
organization collaborate effectively
Data is at the center of many challenges**

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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.

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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 processing and storing data.

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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

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**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**

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databases are built Peek behind the scenes of major online services, and learn from their architectures

How well does your organization respond to changing market conditions, customer needs, and emerging technologies when building software-based products? This practical guide

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presents Lean and Agile principles and patterns to help you move fast at scale—and demonstrates why and how to apply these paradigms throughout your organization, rather than with just one department or team. Through case studies, you'll learn how successful enterprises have rethought everything

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from governance and financial management to systems architecture and organizational culture in the pursuit of radically improved performance. Discover how Lean focuses on people and teamwork at every level, in contrast to traditional management practices Approach

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**problem-solving experimentally by
exploring solutions, testing assumptions,
and getting feedback from real users
Lead and manage large-scale programs
in a way that empowers employees,
increases the speed and quality of
delivery, and lowers costs Learn how to
implement ideas from the DevOps and**

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Lean Startup movements even in complex, regulated environments
The convergence of knowledge, technology, and human performance which comprises today's enterprise allows creative business process design.
Thus, an organization can create new and innovative ways to service

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**customers or to do business with
suppliers and make itself a leader in its
field. This capability relies on a
successful strategy that integra
From Requirements to Realization
Fowler**

Capitalist Nigger

Software Analysis and Optimization

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Crossing the Quality Chasm

BPF Performance Tools

Enterprise Performance Management

Done Right

Architecting High

Performing, Scalable and

Available Enterprise Web

Applications provides in-

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depth insights into techniques for achieving desired scalability, availability and performance quality goals for enterprise web applications. The book provides an integrated 360-degree view of achieving

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and maintaining these attributes through practical, proven patterns, novel models, best practices, performance strategies, and continuous improvement methodologies and case studies. The author

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shares his years of experience in application security, enterprise application testing, caching techniques, production operations and maintenance, and efficient project management techniques.

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Delivers holistic view of scalability, availability and security, caching, testing and project management Includes patterns and frameworks that are illustrated with end-to-end case studies Offers tips and

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troubleshooting methods for
enterprise application
testing, security, caching,
production operations and
project management
Exploration of synergies
between techniques and
methodologies to achieve end-

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to-end availability,
scalability, performance and
security quality attributes
360-degree viewpoint
approach for achieving
overall quality Practitioner
viewpoint on proven
patterns, techniques,

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methodologies, models and
best practices. Bulleted
summary and tabular
representation of concepts
for effective understanding
Production operations and
troubleshooting tips
Capitalist Nigger is an

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explosive and jarring indictment of the black race. The book asserts that the Negroid race, as naturally endowed as any other, is culpably a non-productive race, a consumer race that depends on other

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communities for its culture,
its language, its feeding
and its clothing. Despite
enormous natural resources,
blacks are economic slaves
because they lack the 'devil-
may-care' attitude and the
'killer instinct' of the

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Caucasian, as well as the spider web mentality of the Asian. A Capitalist Nigger must embody ruthlessness in pursuit of excellence in his drive towards achieving the goal of becoming an economic warrior. In putting forward

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the idea of the Capitalist Nigger, Chika Onyeani charts a road to success whereby black economic warriors employ the 'Spider Web Doctrine' – discipline, self-reliance, ruthlessness – to escape from their victim

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mentality. Born in Nigeria, Chika Onyeani is a journalist, editor and former diplomat.

Is your organization rapidly accumulating more information than you know how to manage? This updated

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edition of Enterprise Search helps you create an enterprise search solution based on more than just technology. Author Martin White shows you how to plan and implement a managed search environment that

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meets the needs of your business and your employees. You'll learn why it's absolutely vital to have a dedicated staff manage your search technology and support your users. New material for this second

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edition includes material on SharePoint 2013 search, managing open source search development, website search, designing the search user, and assessing search performance. Chapters now include a Further Reading

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section for computer science
and information science
students. Topics include: 10
critical success factors to
assess organizational search
maturity Essential skills
needed to support a
successful search

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application How to specify
and manage open source
search development How to
manage SharePoint 2013
search Methods to assess the
business impact of search
Best practices in user
interface design The

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importance of search for
websites What to include in
a search strategy

In the race to compete in
today's fast-moving markets,
large enterprises are busy
adopting new technologies
for creating new products,

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processes, and business models. But one obstacle on the road to digital transformation is placing too much emphasis on technology, and not enough on the types of processes technology enables. What if

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different lines of business
could build their own
services and
applications—and decision-
making was distributed
rather than centralized?
This report explores the
concept of a digital

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business platform as a way of empowering individual business sectors to act on data in real time. Much innovation in a digital enterprise will increasingly happen at the edge, whether it involves business users

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(from marketers to data scientists) or IoT devices. To facilitate the process, your core IT team can provide these sectors with the digital tools they need to innovate quickly. This report explores: Key

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cultural and organizational
changes for developing
business capabilities
through cross-functional
product teams A platform for
integrating applications,
data sources, business
partners, clients, mobile

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apps, social networks, and
IoT devices Creating
internal API programs for
building innovative edge
services in low-code or no-
code environments Tools
including Integration
Platform as a Service,

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Application Platform as a Service, and Integration Software as a Service The challenge of integrating microservices and serverless architectures Event-driven architectures for processing and reacting to events in

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real time You'll also learn about a complete pervasive integration solution as a core component of a digital business platform to serve every audience in your organization.

Systems Thinking and

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Organizational Legacy

The Open Organization

Enterprise Java Performance

Enterprise Systems

Integration

Architecting High

Performing, Scalable and

Available Enterprise Web

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Applications

Discovery of Integrated

Enterprise Excellence

The Enterprise Cloud

Leverage Puppet 5 for medium to

large scale enterprise deployment.

Key Features Use and deploy Puppet

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5, irrespective the size of your organization Scaling, performance improvements, and managing multiple developer requests Troubleshooting techniques, tips and tricks to make the most of Puppet 5 Book Description Puppet is

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a configuration management system and a language written for and by system administrators to manage a large number of systems efficiently and prevent configuration drift. The core topics this book addresses are Puppet's

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*latest features and mastering
Puppet Enterprise. You will begin
by writing a new Puppet module,
gaining an understanding of the
guidelines and style of the Puppet
community. Following on from this,
you will take advantage of the roles*

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and profiles pattern, and you will learn how to structure your code. Next, you will learn how to extend Puppet and write custom facts, functions, types, and providers in Ruby, and also use the new features of Hieria 5. You will also learn how

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to configure the new Code Manager component, and how to ensure code is automatically deployed to (multiple) Puppet servers. Next, you will learn how to integrate Puppet with Jenkins and Git to build an effective workflow for multiple

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*teams, and use the new Puppet
Tasks feature and the latest Puppet
Orchestrator language extensions.
Finally, you will learn how to scale
and troubleshoot Puppet. By the end
of the book, you will be able to deal
with problems of scale and*

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exceptions in your code, automate workflows, and support multiple developers working simultaneously. What you will learn Solve problems using modules and the roles and profiles pattern Extend Puppet with custom facts, functions, types, and

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*providers Use Hiera 5 and Code
Manager/r10k to separate code
from data Continuously integrate
your code using Jenkins, Git and
automated testing Use exported
resources and the new Puppet
Orchestration features Explore*

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*Puppet Discovery features and their
use Troubleshoot various parts of
the Puppet Enterprise
infrastructure Scale up and scale
out Puppet infrastructure using
various techniques Who this book is
for If you are a system*

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administrator or developer who has used Puppet in production and are looking for ways to easily use Puppet in an enterprise environment, this book is for you. Some knowledge of writing simple configuration management modules

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would be necessary.

This book shows software professionals exactly how to build high-performance, high-integrity distributed Transaction Processing (TP) systems for e-commerce, and other business-critical applications.

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For each product, Gorton presents in-depth coverage of system architecture, TP monitor management environments, and programming models, and walks through a complete sample application illustrating both TP

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*monitor features and relevant
programming APIs.*

*Winner of the Shingo Publication
Award Accelerate your
organization to win in the
marketplace. How can we apply
technology to drive business value?*

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For years, we've been told that the performance of software delivery teams doesn't matter—that it can't provide a competitive advantage to our companies. Through four years of groundbreaking research to include data collected from the

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State of DevOps reports conducted with Puppet, Dr. Nicole Forsgren, Jez Humble, and Gene Kim set out to find a way to measure software delivery performance—and what drives it—using rigorous statistical methods. This book presents both

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the findings and the science behind that research, making the information accessible for readers to apply in their own organizations. Readers will discover how to measure the performance of their teams, and what capabilities they

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should invest in to drive higher performance. This book is ideal for management at every level.

The GCBME Book Series aims to promote the quality and methodical reach of the Global Conference on Business Management &

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Entrepreneurship, which is intended as a high-quality scientific contribution to the science of business management and entrepreneurship. The Contributions are the main reference articles on the topic of each book and have

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been subject to a strict peer review process conducted by experts in the fields. The conference provided opportunities for the delegates to exchange new ideas and implementation of experiences, to establish business or research

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connections and to find Global Partners for future collaboration. The conference and resulting volume in the book series is expected to be held and appear annually. The year 2019 theme of book and conference is "Creating Innovative

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*and Sustainable Value-added
Businesses in the Disruption Era".
The ultimate goal of GCBME is to
provide a medium forum for
educators, researchers, scholars,
managers, graduate students and
professional business persons from*

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the diverse cultural backgrounds, to present and discuss their researches, knowledge and innovation within the fields of business, management and entrepreneurship. The GCBME conferences cover major thematic groups, yet opens to other relevant

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*topics: Organizational Behavior,
Innovation, Marketing
Management, Financial
Management and Accounting,
Strategic Management,
Entrepreneurship and Green
Business.*

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*Best Practices for Designing,
Implementing, and Maintaining
Systems*

*Designing Data-Intensive
Applications*

*Modeling and Analysis of
Enterprise and Information Systems*

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*Enterprise Transaction Processing
Systems*

*Patterns for Performance and
Operability*

Management 2.0

*Lean Enterprise Software and
Systems*

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Structured to follow the software life cycle, *Patterns for Performance and Operability* provides advice and examples-based instructions at every phase. You can read it from start to finish or go directly to those chapters that interest you the most. Whatever approach you choose, you will learn: How to:

- Define and document

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comprehensive non-functional requirements for any software system · Define scope and logistics for non-functional test activities · Execute non-functional tests and report results clearly and effectively · Patterns for defensive software designs in common software scenarios that promote operability and

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availability · Implement the right level of reporting, monitoring, and trending for highly available production software systems

Patterns for:

- Software designs that support simpler and more efficient operation in a production environment ·
- Software design that support high-performance and scalability

Strategies

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and Techniques for: · Techniques for managing and troubleshooting during a production crisis · Strategies for resisting project pressure to compromise on quality or completeness of non-functional activities in the software cycle

This book, written in an easy-to-access novel format, provides practitioners and

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managers with: A free software app for response-metric tracking that provides insight not possible with traditional metric reporting techniques. A methodology for improvement project selection so that the big-picture will benefit from the project's completion. A clickable Lean Six Sigma Define-Measure-Analyze-Improve-Control

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(DMAIC) process-improvement roadmap that integrates the application of Lean and Six Sigma tools so that the right tool is used at the right time when undertaking process improvement efforts. A methodology to statistically show and quantify at the 30,000-foot-level the benefit from process improvement efforts.

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This book provides direction on how organizations can resolve issues that commonly occur with: Traditional control charts and process capability reporting techniques. AQL testing and reporting. Lean Six Sigma deployments. This book provides direction in how organizations can benefit from the wise application of:

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Statistical and non-statistical techniques. Design of Experiments (DOE) in both manufacturing and transactional processes. In this book, Jorge and his golfing MBA buddies discover a no-nonsense methodology that minimizes the risk of organizations' doing bad things. As well, the described method provides

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direction for establishments to move toward the achievement of the 3Rs of business; that is, everyone doing the Right things, and doing them Right at the Right time. This novel describes the application of Integrated Enterprise Excellence (IEE). The IEE system offers much flexibility, including a means for effectively

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managing an organization remotely. Described is how Jorge implemented IEE in his Harris Hospital and how his golfing MBA friends applied and also benefited from the methodology in their manufacturing and transactional organizations. IEE provides a comprehensive 9-step system that CEOs,

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presidents, general managers, executives, managers, leaders, practitioners, and others can use to resolve elephant-in-the-room management issues such as: Business goals not being met. Scorecards leading to harmful, if not destructive, behaviors. Persistent day-to-day firefighting problems. Business strategies

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that are very generic and/or difficult to translate to organizational work environments. Lean events and other improvement projects that can consume many resources but often do not offer a quantifiable benefit to the business as a whole. Lean Six Sigma process improvement deployments that have

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improvement projects, which are either not completed in a timely fashion or which make substantial financial claims that are questionable. This book offers an easy-to-understand book-character dialog on how to implement Deming's management philosophy and deliver a system for managing the needs of ISO 9000, Baldrige

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award criteria, and Shingo Prize criteria all at one time through the IEE business management system.

The topic of Enterprise Information Systems (EIS) is having an increasingly relevant strategic impact on global business and the world economy, and organizations are undergoing hard

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investments in search of the rewarding benefits of efficiency and effectiveness that these ranges of solutions promise.

Organizational Integration of Enterprise Systems and Resources: Advancements and Applications show that EIS are at the same time responsible for tremendous gains in some companies and tremendous

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losses in others. Therefore, their adoption should be carefully planned and managed. This title highlights new ways to identify opportunities and overtake trends and challenges of EIS selection, adoption, and exploitation as it is filled with models, solutions, tools, and case studies. The book provides researchers, scholars, and

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professionals with some of the most advanced research, solutions, and discussions of Enterprise Information Systems design, implementation, and management.

Learn how Lean IT can help companies deliver better customerservice and value
Lean Enterprise Systems effectively

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demonstrates how the techniques derived from Lean Manufacturing, combined with the thoughtful application of information technology, can help all enterprises improve business performance and add significant value for their customers. The author also demonstrates how the basic concepts

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of Lean Manufacturing can be applied to create agile and responsive Lean IT. The book is divided into three parts that collectively explore how people, processes, and technology combine forces to facilitate continuous improvement: * Part One: Building Blocks of the Lean Enterprise sets forth the essentials of Lean

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Readers discover where, when, and how Lean IT adds substantial value to the Lean Enterprise through integrated processes of planning, scheduling, execution, control, and decisionmaking across the full spectrum of operations. * Part Two: Building Blocks of Information Systems explores the primary components of an

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enterprise information system and how these components may be integrated to improve the flow of information supporting value streams. Readers learn how information systems help organize and deliver knowledge when and where it's needed. * Part Three: Managing Change with IT demonstrates how the

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skillful combination of process and information technology improvements empowers people to continuously improve the Lean Enterprise. Readers develop the skills to exploit emerging information technology tools and change management methods, crafting a Lean IT framework-reducing

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waste, complexity, and lead time-while adding measurable value. Executives, managers, and improvement teams across a broad range of industries, as well as IT professionals, can apply the techniques described in this publication to improve performance, add value, and create competitive advantage. The book's

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clear style and practical focus also makes it an excellent textbook for upper-level undergraduate and graduate courses in business, operations management, and business information systems.

Enhancing Business Performance

A New Health System for the 21st Century

Pattern Enterprise Application Arch

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Designing Complex Systems
Putting the CORBA OTS, Encina++ and
OrbixOTM to Work

Application Performance Management
(APM) in the Digital Enterprise

A Flaw in Human Judgment

This book contains the refereed
proceedings of the 4th

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International Conference on Lean Enterprise Software and Systems, LESS 2013, held in Galway, Ireland, in December 2013. LESS fosters interactions between practitioners and researchers by joining the lean

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product development and the agile software development communities in a highly collaborative environment. Each year, the program combines novelties and recent research results that make new

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ideas thrive during and after the conference. This year, the conference agenda was expanded to incorporate topics such as portfolio management, open innovation and enterprise transformation. The 14 papers

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selected for this book represent a diverse range of experiences, studies and theoretical achievements. They are organized in four sections on lean software development, quality and performance, case

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studies and emerging
developments.

Systems performance analysis
and tuning lead to a better end-
user experience and lower
costs, especially for cloud
computing environments that

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charge by the OS instance. Systems Performance, 2nd Edition covers concepts, strategy, tools, and tuning for operating systems and applications, using Linux-based operating systems as the

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primary example. World-renowned systems performance expert Brendan Gregg summarizes relevant operating system, hardware, and application theory to quickly get professionals up to

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speed even if they've never analyzed performance before, and to refresh and update advanced readers' knowledge. Gregg illuminates the latest tools and techniques, including extended BPF, showing how to

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get the most out of your systems in cloud, web, and large-scale enterprise environments. He covers these and other key topics: Hardware, kernel, and application internals, and how

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they perform Methodologies for rapid performance analysis of complex systems Optimizing CPU, memory, file system, disk, and networking usage
Sophisticated profiling and tracing with perf, Ftrace, and

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BPF (BCC and bpftrace)
Performance challenges
associated with cloud
computing hypervisors
Benchmarking more effectively
Fully updated for current Linux
operating systems and

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environments, Systems Performance, 2nd Edition addresses issues that apply to any computer system. The book will be a go-to reference for many years to come and recommended reading at many

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tech companies, like its predecessor first edition. "International Institute for Analytics"--Dust jacket. From the Nobel Prize-winning author of Thinking, Fast and Slow and the coauthor of

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Nudge, a revolutionary exploration of why people make bad judgments and how to make better ones—"a tour de force" (New York Times).
Imagine that two doctors in the same city give different

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diagnoses to identical patients—or that two judges in the same courthouse give markedly different sentences to people who have committed the same crime. Suppose that different interviewers at the

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same firm make different
decisions about
indistinguishable job
applicants—or that when a
company is handling customer
complaints, the resolution
depends on who happens to

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answer the phone. Now imagine that the same doctor, the same judge, the same interviewer, or the same customer service agent makes different decisions depending on whether it is morning or

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afternoon, or Monday rather than Wednesday. These are examples of noise: variability in judgments that should be identical. In *Noise*, Daniel Kahneman, Olivier Sibony, and Cass R. Sunstein show the

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detrimental effects of noise in many fields, including medicine, law, economic forecasting, forensic science, bail, child protection, strategy, performance reviews, and personnel selection. Wherever

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there is judgment, there is noise. Yet, most of the time, individuals and organizations alike are unaware of it. They neglect noise. With a few simple remedies, people can reduce both noise and bias,

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and so make far better decisions. Packed with original ideas, and offering the same kinds of research-based insights that made Thinking, Fast and Slow and Nudge groundbreaking New York

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Times bestsellers, Noise explains how and why humans are so susceptible to noise in judgment—and what we can do about it.

Building Secure and Reliable
Systems

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Advances in Business,
Management and
Entrepreneurship
The Science of Lean Software
and DevOps: Building and
Scaling High Performing
Technology Organizations

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Lean Enterprise Systems
Enterprise and the Cloud
Igniting Passion and
Performance
Building and Testing Enterprise
Software
Addresses the field of enterprise

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systems, covering progressive technologies, leading theories, and advanced applications.

Identify, capture and resolve common issues faced by Red Hat Enterprise Linux administrators using best practices and advanced troubleshooting techniques About

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This Book Develop a strong understanding of the base tools available within Red Hat Enterprise Linux (RHEL) and how to utilize these tools to troubleshoot and resolve real-world issues Gain hidden tips and techniques to help you quickly detect the reason for poor

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network/storage performance
Troubleshoot your RHEL to isolate
problems using this example-
oriented guide full of real-world
solutions Who This Book Is For If you
have a basic knowledge of Linux
from administration or consultant
experience and wish to add to your

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Red Hat Enterprise Linux
troubleshooting skills, then this book
is ideal for you. The ability to
navigate and use basic Linux
commands is expected. What You
Will Learn Identify issues that need
rapid resolution against long term
root cause analysis Discover

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commands for testing network connectivity such as telnet, netstat, ping, ip and curl Spot performance issues with commands such as top, ps, free, iostat, and vmstat Use tcpdump for traffic analysis Repair a degraded file system and rebuild a software raid Identify and

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troubleshoot hardware issues using
dmesg Troubleshoot custom
applications with strace and
knowledge of Linux resource
limitations In Detail Red Hat
Enterprise Linux is an operating
system that allows you to modernize
your infrastructure, boost efficiency

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through virtualization, and finally prepare your data center for an open, hybrid cloud IT architecture. It provides the stability to take on today's challenges and the flexibility to adapt to tomorrow's demands. In this book, you begin with simple troubleshooting best practices and

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get an overview of the Linux commands used for troubleshooting. The book will cover the troubleshooting methods for web applications and services such as Apache and MySQL. Then, you will learn to identify system performance bottlenecks and troubleshoot

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network issues; all while learning about vital troubleshooting steps such as understanding the problem statement, establishing a hypothesis, and understanding trial, error, and documentation. Next, the book will show you how to capture and analyze network traffic, use advanced system

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troubleshooting tools such as strace, tcpdump & dmesg, and discover common issues with system defaults. Finally, the book will take you through a detailed root cause analysis of an unexpected reboot where you will learn to recover a downed system. Style and approach

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This is an easy-to-follow guide packed with examples of real-world core Linux concepts. All the topics are presented in detail while you're performing the actual troubleshooting steps.

The Oracle Solaris DTrace feature revolutionizes the way you debug

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operating systems and applications. Using DTrace, you can dynamically instrument software and quickly answer virtually any question about its behavior. Now, for the first time, there's a comprehensive, authoritative guide to making the most of DTrace in any supported

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UNIX environment--from Oracle Solaris to OpenSolaris, Mac OS X, and FreeBSD. Written by key contributors to the DTrace community, DTrace teaches by example, presenting scores of commands and easy-to-adapt, downloadable D scripts. These

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concise examples generate answers to real and useful questions, and serve as a starting point for building more complex scripts. Using them, you can start making practical use of DTrace immediately, whether you're an administrator, developer, analyst, architect, or support professional.

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The authors fully explain the goals, techniques, and output associated with each script or command.

Drawing on their extensive experience, they provide strategy suggestions, checklists, and functional diagrams, as well as a chapter of advanced tips and tricks.

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You'll learn how to Write effective
scripts using DTrace's D language
Use DTrace to thoroughly
understand system performance
Expose functional areas of the
operating system, including I/O,
filesystems, and protocols Use
DTrace in the application and

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database development process
Identify and fix security problems
with DTrace Analyze the operating
system kernel Integrate DTrace into
source code Extend DTrace with
other tools This book will help you
make the most of DTrace to solve
problems more quickly and

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efficiently, and build systems that work faster and more reliably.

This is the first book to seriously address the disconnection between nimble Agile teams and other groups in the enterprise, including enterprise architecture, the program management office (PMO), human

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resources, and even business executives. When an enterprise experiments with practice improvements, software development teams often jump on board with excitement, while other groups are left to wonder how they will fit in. We address how these groups can adapt

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to Agile teams. More importantly, we show how many Agile teams cause their own problems, damaging scalability and sustainability, by requiring special treatment, and by failing to bridge the gaps between themselves and other groups. We call this phenomenon “Agile illth.”

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Adopting a set of “best practices” is not enough. All of us, Agile teams and the corporate groups, must change our intentions and worldviews to be more compatible with the success of the enterprise. Join us on the journey to enterprise agility. It is a crooked path, fraught

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with danger, confusion and complexity. It is the only way to reach the pinnacles we hope to experience in the form of better business value delivered faster for less cost.

The Big Ideas Behind Reliable,
Scalable, and Maintainable Systems

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Power and Performance

Using IT for Continuous

Improvement

Lean Enterprise

Designing Distributed Systems

Red Hat Enterprise Linux

Troubleshooting Guide

Mastering Puppet 5

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Second in a series of publications from the Institute of Medicine's Quality of Health Care in America project Today's health care providers have more research findings and more technology available to

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them than ever before. Yet recent reports have raised serious doubts about the quality of health care in America. Crossing the Quality Chasm makes an urgent call for fundamental change to close the quality

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gap. This book recommends a sweeping redesign of the American health care system and provides overarching principles for specific direction for policymakers, health care leaders, clinicians, regulators,

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purchasers, and others. In this comprehensive volume the committee offers: A set of performance expectations for the 21st century health care system. A set of 10 new rules to guide patient-clinician relationships. A

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suggested organizing
framework to better align
the incentives inherent in
payment and accountability
with improvements in
quality. Key steps to
promote evidence-based
practice and strengthen

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clinical information systems. Analyzing health care organizations as complex systems, Crossing the Quality Chasm also documents the causes of the quality gap, identifies current practices that

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impede quality care, and explores how systems approaches can be used to implement change.

"This book provides evidence-based insights into the management and contribution of IT in organizations, to

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offer practical advice & solutions, models and tools that are instrumental in getting business value from IT"--Provided by publisher. Innovation principles to bring about meaningful and sustainable growth in your

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organization Using a list of more than 2,000 successful innovations,including Cirque du Soleil, early IBM mainframes, the Ford Model-T,and many more, the authors applied a proprietary algorithm anddetermined ten

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meaningful groupings—the Ten Types of Innovation—that provided insight into innovation. The Ten Types of Innovation explores these insights to diagnose patterns of innovation within industries, to identify

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innovation opportunities, and to evaluate how firms are performing against competitors. The framework has proven to be one of the most enduring and useful ways to start thinking

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about transformation. Details how you can use these innovation principles to bring about meaningful—and sustainable—growth within your organization Author Larry Keeley is a world renowned speaker,

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innovationconsultant, and
president and co-founder of
Doblin, the
innovationpractice of
Monitor Group; BusinessWeek
named Keeley one of
sevenInnovation Gurus who
are changing the field The

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Ten Types of Innovation
concept has influenced
thousands of executives and
companies around the world
since its discovery in 1998.
The Ten Types of Innovation
is the first book explaining
how to implement it.

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Application Performance Management (APM) in the Digital Enterprise enables IT professionals to be more successful in managing their company's applications. It explores the fundamentals of application management,

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examines how the latest technological trends impact application management, and provides best practices for responding to these changes. The recent surge in the use of containers as a way to simplify management and

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deploy applications has created new challenges, and the convergence of containerization, cloud, mobile, virtualization, analytics, and automation is reshaping the requirements for application management.

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This book serves as a guide for understanding these dramatic changes and how they impact the management of applications, showing how to create a management strategy, define the underlying processes and

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standards, and how to select the appropriate tools to enable management processes. Offers a complete framework for implementing effective application management using clear tips and solutions for those responsible for

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application management Draws upon primary research to give technologists a current understanding of the latest technologies and processes needed to more effectively manage large-scale applications Includes real-

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world case studies and
business justifications that
support application
management investments
The Journey to Enterprise
Agility
Handbook of Research on
Enterprise Systems

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Noise

Managing Applications for
Cloud, Mobile, IoT and
eBusiness

4th International
Conference, LESS 2013,
Galway, Ireland, December
1-4, 2013, Proceedings

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Enterprise Search

The Discipline of Building
Breakthroughs

"Large-scale enterprise,
cloud, and virtualized
computing systems have
introduced serious

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performance challenges.
Now, internationally
renowned performance
expert Brendan Gregg has
brought together proven
methodologies, tools, and
metrics for analyzing and

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tuning even the most
complex environments.
Systems Performance:
Enterprise and the Cloud
focuses on Linux® and
Unix® performance, while
illuminating performance

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issues that are relevant to all operating systems. You'll gain deep insight into how systems work and perform, and learn methodologies for analyzing and improving

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system and application performance. Gregg presents examples from bare-metal systems and virtualized cloud tenants running Linux-based Ubuntu®, Fedora®, CentOS,

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and the illumos-based
Joyent® SmartOSTM and
OmniTI OmniOS®. He
systematically covers
modern systems
performance, including the
"traditional" analysis of

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CPUs, memory, disks, and networks, and new areas including cloud computing and dynamic tracing. This book also helps you identify and fix the "unknown unknowns" of

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complex performance:
bottlenecks that emerge
from elements and
interactions you were not
aware of. The text
concludes with a detailed
case study, showing how a

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real cloud customer issue
was analyzed from start to
finish."--Back cover.

Despite the buzz
surrounding the cloud
computing, only a small
percentage of

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organizations have actually deployed this new style of IT—so far. If you're planning your long-term cloud strategy, this practical book provides insider knowledge and

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actionable real-world
lessons regarding
planning, design,
operations, security, and
application
transformation. This book
teaches business and

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technology managers how to transition their organization's traditional IT to cloud computing. Rather than yet another book trying to sell or convince readers on the

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benefits of clouds, this book provides guidance, lessons learned, and best practices on how to design, deploy, operate, and secure an enterprise cloud based on real-world

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experience. Author James Bond provides useful guidance and best-practice checklists based on his field experience with real customers and cloud providers. You'll view

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cloud services from the perspective of a consumer and as an owner/operator of an enterprise private or hybrid cloud, and learn valuable lessons from successful and less-than-

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successful organization
use-case scenarios. This
is the information every
CIO needs in order to make
the business and technical
decisions to finally
execute on their journey

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to cloud computing. Get updated trends and definitions in cloud computing, deployment models, and for building or buying cloud services Discover challenges in

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cloud operations and
management not foreseen by
early adopters Use real-
world lessons to plan and
build an enterprise
private or hybrid cloud
Learn how to assess, port,

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and migrate legacy
applications to the cloud
Identify security threats
and vulnerabilities unique
to the cloud Employ a
cloud management system
for your enterprise

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(private or multi-provider
hybrid) cloud ecosystem
Understand the challenges
for becoming an IT service
broker leveraging the
power of the cloud
This is a story of

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reinvention. Jim Whitehurst, celebrated president and CEO of one of the world's most revolutionary software companies, tells first-hand his journey from

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traditional manager (Delta
Air Lines, Boston
Consulting Group) and
“chief” problem solver to
CEO of one of the most
open organizational
environments he'd ever

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encountered. This
challenging transition,
and what Whitehurst
learned in the interim,
has paved the way for a
new way of managing—one
this modern leader sees as

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the only way companies will successfully function in the future. Whitehurst says beyond embracing the technology that has so far disrupted entire industries, companies must

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now adapt their management and organizational design to better fit the Information Age. His mantra? “Adapt or die.” Indeed, the successful company Whitehurst

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leads—the open source
giant Red Hat—has become
the organizational poster
child for how to reboot,
redesign, and reinvent an
organization for a
decentralized, digital

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age. Based on open source principles of transparency, participation, and collaboration, “open management” challenges conventional business

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ideas about what companies are, how they run, and how they make money. This book provides the blueprint for putting it into practice in your own firm. He covers challenges that

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have been missing from the conversation to date, among them: how to scale engagement; how to have healthy debates that net progress; and how to attract and keep the

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“Social Generation” of workers. Through a mix of vibrant stories, candid lessons, and tested processes, Whitehurst shows how Red Hat has blown the traditional

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operating model to pieces
by emerging out of a pure
bottom up culture and
learning how to execute it
at scale. And he explains
what other companies are,
and need to be doing to

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bring this open style into all facets of the organization. By showing how to apply open source methods to everything from structure, management, and strategy to a firm's

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customer and partner relationships, leaders and teams will now have the tools needed to reach a new level of work. And with that new level of work comes unparalleled

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success. The Open Organization is your new resource for doing business differently. Get ready to make traditional management thinking obsolete.

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Systems

PerformanceEnterprise and
the CloudPearson Education
Enterprise IT Governance,
Business Value and
Performance Measurement
Optimize enterprise-grade

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environment performance
with Puppet
Optimize Performance,
Process, and Decisions
Through Big Data
Accelerate

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Patterns and Paradigms for
Scalable, Reliable
Services

An Operating System for
Your Organization

"This is not yet another
introduction to CORBA - this is

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the first book to offer proven guidelines for building large-scale, enterprise-class CORBA systems. This book provides you with the knowledge you need to fully leverage the strength of OMG CORBA. Benefit from the real-

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world experience the three authors gained as leading CORBA consultants, working with many customers in industries like manufacturing transportation, finance, and telecommunication." "This book focuses on the

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application of technology that is available today, building on the experience the authors have gained with enterprise CORBA systems deployed in the real world. The book provides you with a blueprint for applying

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CORBA technology to build flexible, high-performance, enterprise-class applications."--BOOK

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Without standardized construction elements such as nuts, bolts, bearings, beams, resistors and the like, the design of physical equipment is hopelessly inefficient, and engineers are continually bogged down with re-

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designing these elements over and over again. The same can be said for the domain of ideas and performance requirements. Only through a process of standardization of the corresponding functional elements

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will systems engineering truly live up to its potential of increased efficiency and quality. Designing Complex Systems: Foundations of Design in the Functional Domain introduces students and practitioners in the field of system

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design to a particular methodology that addresses design issues in a rigorous and consistent top-down fashion. It also reassesses the characteristics of engineering and its place within the field of intellectual activity, in

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particular, examining the creative aspects of design as reflected in the difference between engineers and technicians. Erik W. Aslaksen brings forty years of experience to the table with this groundbreaking work. He

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examines how the concept of value can provide a quantitative measure of that wider interaction of the engineered object with its environment. With its forward-looking approach and holistic perspective, this volume is sure to

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advance the field of knowledge of systems engineering for years to come.

A workable blueprint for developing and implementing performancemanagement in order to improve revenue growth and

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profitmargins Enterprise
performance management (EPM)
technology has beenrapidly
advancing, especially in the areas
of predictive analysisand cloud-
based solutions. Real Enterprise
PerformanceManagement

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introduces a framework for implementing and managing next-generation functionality for better insight, focus, and alignment of EPM. This blueprint shows that EPM can have a direct positive impact on revenue growth,

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operating margin, asset utilization,
and cash cycle efficiency.

Introduces a framework for
implementing and managing next-
generation functionality for better
insight, focus, and alignment

Reveals that EPM can have a

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strong impact on revenue growth, operating margin, asset utilization, cash cycle efficiency
Today's businesses have a great deal of data and technology, but less-than-fact decisions are still made. Executives need

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a structured framework for gathering, analyzing, and debating the best ways to deploy capital, people and time. Real Enterprise Performance Management joins IT and finance in a digestible blueprint for

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developing and implementing performance management in order to improve revenue growth and profit margins.

BPF and related observability tools give software professionals unprecedented visibility into

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software, helping them analyze operating system and application performance, troubleshoot code, and strengthen security. BPF Performance Tools: Linux System and Application Observability is the industry's most

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comprehensive guide to using these tools for observability. Brendan Gregg, author of the industry's definitive guide to system performance, introduces powerful new methods and tools for doing analysis that leads to

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more robust, reliable, and safer code. This authoritative guide:
Explores a wide spectrum of software and hardware targets
Thoroughly covers open source BPF tools from the Linux Foundation
iovisor project's bcc

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and bpftrace repositories
Summarizes performance
engineering and kernel internals
you need to understand Provides
and discusses 150+ bpftrace tools,
including 80 written specifically
for this book: tools you can run as-

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is, without programming — or customize and develop further, using diverse interfaces and the bpftrace front-end You'll learn how to use BPF (eBPF) tracing tools to analyze CPUs, memory, disks, file systems, networking,

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languages, applications, containers, hypervisors, security, and the Linux kernel. You'll move from basic to advanced tools and techniques, producing new metrics, stack traces, custom latency histograms, and more. It's

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like having a superpower: with Gregg's guidance and tools, you can analyze virtually everything that impacts system performance, so you can improve virtually any Linux operating system or application.

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Dynamic Tracing in Oracle
Solaris, Mac OS X, and FreeBSD
Proceedings of the 3rd Global
Conference on Business
Management & Entrepreneurship
(GC-BME 3), 8 August 2018,
Bandung, Indonesia

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DTrace

Systems Performance

The Road To Success – A Spider
Web Doctrine

Foundations of Design in the
Functional Domain

Best Practices for Transforming

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Legacy IT

*Power and Performance:
Software Analysis and
Optimization is a guide to
solving performance problems
in modern Linux systems.
Power-efficient chips are no
help if the software those*

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chips run on is inefficient. Starting with the necessary architectural background as a foundation, the book demonstrates the proper usage of performance analysis tools in order to pinpoint the cause of

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performance problems, and includes best practices for handling common performance issues those tools identify. Provides expert perspective from a key member of Intel's optimization team on how processors and memory

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*systems influence
performance Presents ideas
to improve architectures
running mobile, desktop, or
enterprise platforms
Demonstrates best practices
for designing experiments
and benchmarking throughout*

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*the software lifecycle
Explains the importance of
profiling and measurement to
determine the source of
performance issues
A collection of 24 humorous
mountain man tall tales,
these stories are narrated*

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*in a loose kind of verse in
the voice of a tough and
experienced early-19th-
century Rocky Mountain fur
trapper. While a few of the
tales are retellings of
whoppers by famous
historical mountain men,*

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*most are original outrageous
lies of the author's own,
related in the mountaineer
tradition. All of the
stories contain glimpses of
the difficult, dangerous
life of that rowdy breed of
men who challenged the*

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*uncharted wilderness and
triumphed because of their
courage, fortitude, and
unquenchable laughter in the
face of hardship and peril.
The Complete Guide to
Optimizing Systems
Performance Written by the*

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*winner of the 2013 LISA
Award for Outstanding
Achievement in System
Administration Large-scale
enterprise, cloud, and
virtualized computing
systems have introduced
serious performance*

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*challenges. Now,
internationally renowned
performance expert Brendan
Gregg has brought together
proven methodologies, tools,
and metrics for analyzing
and tuning even the most
complex environments.*

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*Systems Performance:
Enterprise and the Cloud
focuses on Linux® and Unix®
performance, while
illuminating performance
issues that are relevant to
all operating systems.
You'll gain deep insight*

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into how systems work and perform, and learn methodologies for analyzing and improving system and application performance. Gregg presents examples from bare-metal systems and virtualized cloud tenants

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*running Linux-based Ubuntu®,
Fedora®, CentOS, and the
illumos-based Joyent®
SmartOS™ and OmniTI OmniOS®.
He systematically covers
modern systems performance,
including the “traditional”
analysis of CPUs, memory,*

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disks, and networks, and new areas including cloud computing and dynamic tracing. This book also helps you identify and fix the “unknown unknowns” of complex performance: bottlenecks that emerge from

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elements and interactions you were not aware of. The text concludes with a detailed case study, showing how a real cloud customer issue was analyzed from start to finish. Coverage includes • Modern

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performance analysis and tuning: terminology, concepts, models, methods, and techniques • Dynamic tracing techniques and tools, including examples of DTrace, SystemTap, and perf • Kernel internals:

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*uncovering what the OS is
doing • Using system
observability tools,
interfaces, and frameworks •
Understanding and monitoring
application performance •
Optimizing CPUs: processors,
cores, hardware threads,*

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cache, interconnects, and kernel scheduling • Memory optimization: virtual memory, paging, swapping, memory architectures, busses, address spaces, and allocators • File system I/O, including caching •

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*Storage devices/controllers,
disk I/O workloads, RAID,
and kernel I/O • Network-
related performance issues:
protocols, sockets,
interfaces, and physical
connections • Performance
implications of OS and*

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*hardware-based
virtualization, and new
issues encountered with
cloud computing •*

*Benchmarking: getting
accurate results and
avoiding common mistakes
This guide is indispensable*

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*for anyone who operates
enterprise or cloud
environments: system,
network, database, and web
admins; developers; and
other professionals. For
students and others new to
optimization, it also*

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*provides exercises
reflecting Gregg's extensive
instructional experience.
The practice of enterprise
application development has
benefited from the emergence
of many new enabling
technologies. Multi-tiered*

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object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures

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in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. Patterns of Enterprise Application Architecture is

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*written in direct response
to the stiff challenges that
face enterprise application
developers. The author,
noted object-oriented
designer Martin Fowler,
noticed that despite changes
in technology--from*

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*Smalltalk to CORBA to Java
to .NET--the same basic
design ideas can be adapted
and applied to solve common
problems. With the help of
an expert group of
contributors, Martin
distills over forty*

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recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is

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*a short tutorial on
developing enterprise
applications, which you can
read from start to finish to
understand the scope of the
book's lessons. The next
section, the bulk of the
book, is a detailed*

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reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML

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diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use

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when building them. The topics covered include .

- Dividing an enterprise application into layers .*
- The major approaches to organizing business logic .*
- An in-depth treatment of mapping between objects and*

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*relational databases · Using
Model-View-Controller to
organize a Web presentation
· Handling concurrency for
data that spans multiple
transactions · Designing
distributed object
interfaces*

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Enterprise CORBA

Ten Types of Innovation

Enterprise Analytics

Organizational Integration

of Enterprise Systems and

Resources: Advancements and

Applications

Advancements and

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