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Trailblazer The Cloud Book The Cloud Computing Book Ahead in the Cloud Business in the Cloud The Cloud-to-Thing Continuum Management Strategies for the Cloud Revolution: How Cloud Computing Is Transforming Business and Why You Can't Afford to Be Left Behind A Prehistory of the Cloud The Tower and the Cloud Explain the Cloud Like I'm 10 The Cloud The Cloud Cloud Computing for Science and Engineering The Enterprise Cloud To the Cloud: Cloud Powering an Enterprise Lean Computing for the Cloud The Cloud Revolution To the Cloud Architecting the Cloud Designing Networks and Services for the Cloud The Cloud-to-Thing Continuum Securing the Cloud Rise of the Data Cloud Genomics in the Cloud Developing and Securing the Cloud Cloud Native Architectures Securing the Cloud Head in the Cloud Developing and Hosting Applications on the Cloud Cloud Computing For Dummies Software Engineering in the Era of Cloud Computing Cloud and Serverless Computing for Scientists Above the Clouds Summary: Management Strategies for the Cloud Revolution Cloud Computing The Cloud Security Ecosystem Business Innovation in the Cloud Securing the Cloud Cloud Computing Security in IoT-Enabled Spaces

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Designing Networks and Services for the Cloud Delivering business-grade cloud applications and services A rapid, easy-to-understand approach to delivering a secure, resilient, easy-to-manage, SLA-driven cloud experience Designing Networks and Services for the Cloud helps you understand the design and architecture of networks and network services that enable the delivery of business-grade cloud services. Drawing on more than 40 years of experience in network and cloud design, validation, and deployment, the authors demonstrate how networks spanning from the Enterprise branch/HQ and the service provider Next-Generation Networks (NGN) to the data center fabric play a key role in addressing the primary inhibitors to cloud adoption—security, performance, and management complexity. The authors first review how virtualized infrastructure lays the foundation for the delivery of cloud services before delving into a primer on clouds, including the management of cloud services. Next, they explore key factors that inhibit enterprises from moving their core workloads to the cloud, and how advanced networks and network services can help businesses migrate to the cloud with confidence. You'll find an in-depth look at data center networks, including virtualization-aware networks, virtual network services, and service overlays. The elements of security in this virtual, fluid environment are discussed, along with techniques for optimizing and accelerating the service delivery. The book dives deeply into cloud-aware service provider NGNs and their role in flexibly connecting distributed cloud resources, ensuring the security of provider and tenant resources, and enabling the optimal placement of cloud services. The role of Enterprise networks as a critical control point for securely and cost-effectively connecting to high-performance cloud services is explored in detail before various parts of the network finally come together in the definition and delivery of end-to-end cloud SLAs. At the end of the journey, you preview the exciting future of clouds and network services, along with the major upcoming trends. If you are a technical professional or manager who must design, implement, or operate cloud or NGN solutions in enterprise or service-provider environments, this guide will be an indispensable resource.

- * Understand how virtualized data-center infrastructure lays the groundwork for cloud-based services
- * Move from distributed virtualization to "IT-as-a-service" via automated self-service portals
- * Classify cloud services and deployment models, and understand the actors in the cloud ecosystem
- * Review the elements, requirements, challenges, and opportunities associated with network services in the cloud
- * Optimize data centers via network segmentation, virtualization-aware networks, virtual network services, and service overlays
- * Systematically secure cloud services
- * Optimize service and application performance
- * Plan and implement NGN infrastructure to support and accelerate cloud services
- * Successfully connect enterprises to the cloud
- * Define and deliver on end-to-end cloud SLAs
- * Preview the future of cloud and network services

Increase efficiency while saving money with "on-demand" computing The biggest game-changing force in business since the creation of the Internet, cloud computing simplifies and lowers the cost of operations while providing flexibility and power you never dreamed possible. Make your strategic move now, with **Management Strategies for the Cloud Revolution!** "Management Strategies for the Cloud Revolution is an important work that captures the concepts and technological advances fueling the rapid adoption of cloud computing today. It illuminates how specific core technologies have led to the emergence of those patterns as the foundation for the next generation of IT-managed infrastructure." —Rich Wolski, Chief Technology Officer and cofounder of Eucalyptus Systems, Inc., and Professor of Computer Science at the

University of California, Santa Barbara “Explains in marvelously plain English how clouds will change our world. . . . If the potential of cloud computing doesn’t excite you now, it will after you read this book. Buy a copy and put it on your CEO’s desk. Babcock explains it all.” —Paul Gillin, bestselling author of *The New Influencers* “A valuable primer and handbook. It will help you master the technology and follow the story as innovators craft the future of cloud computing.” —Ted schadler, VP and Principal Analyst, Forrester Research, Inc., and coauthor of *Empowered* “This readable, thought-provoking book will be especially useful to business professionals and practitioners.” *Choice* magazine About the Book Everyday business as we know it is poised for a monumental shift, courtesy of cloud computing—the biggest game-changer since the creation of the Internet itself. There’s no doubt about it: If you want to compete in the future, you must begin educating yourself about cloud computing now. From InformationWeek editor Charles Babcock, a leading authority on the business benefits and pitfalls of cloud computing, *Management Strategies for the Cloud Revolution* provides the tools every manager needs to create a new business strategy that harnesses all the power cloud computing has to offer. Cloud computing is the equivalent of renting time on a computing infrastructure over the Internet, rather than building your own from the ground up. Access to the cloud is growing quickly, and the benefits are undeniable. Those who begin incorporating cloud computing into their business strategy will enjoy: **Dramatic Cost Savings:** The cloud makes available innovative technologies that would otherwise be too expensive. **Ubiquitous Access:** Employees can access the server power they need anytime, anywhere, and send it the program they want to run. **Unprecedented Agility:** Business processes and business infrastructures can be altered quicker than ever. **Steady Traffic Flow:** Even during peak loads, systems in the cloud can overcome bottlenecks and expand to meet the user’s needs. Working on the cloud, your analysts, business intelligence experts, and researchers can access large-scale, high-speed, highly reliable systems while paying only for short-term use. You didn’t set up your own electrical grid to power your computers. Why pay big money to use them when you don’t have to? The cloud is on the horizon, and it’s looming larger by the day. Learn how to take full advantage of it with *Management Strategies for the Cloud Revolution*. Drawing upon the expertise of world-renowned researchers and experts, *The Cloud Security Ecosystem* comprehensively discusses a range of cloud security topics from multi-disciplinary and international perspectives, aligning technical security implementations with the most recent developments in business, legal, and international environments. The book holistically discusses key research and policy advances in cloud security - putting technical and management issues together with an in-depth treaties on a multi-disciplinary and international subject. The book features contributions from key thought leaders and top researchers in the technical, legal, and business and management aspects of cloud security. The authors present the leading edge of cloud security research, covering the relationships between differing disciplines and discussing implementation and legal challenges in planning, executing, and using cloud security. Presents the most current and leading-edge research on cloud security from a multi-disciplinary standpoint, featuring a panel of top experts in the field Focuses on the technical, legal, and business management issues involved in implementing effective cloud security, including case examples Covers key technical topics, including cloud trust protocols, cryptographic deployment and key management, mobile devices and BYOD security management, auditability and accountability, emergency and incident response, as well as cloud forensics Includes coverage of management and legal issues such as cloud data governance, mitigation and liability of international cloud deployment, legal boundaries, risk management, cloud information security management plans, economics of cloud security, and standardization efforts This book acts as a primer and strategic guide to identify Cloud Computing best practices and associated risks, and reduce the latter to acceptable levels. From software as a service (SaaS) to replacing the entire IT infrastructure, the author serves as an educator, guide and strategist, from runway to getting the organization above the clouds. A close look at cloud computing’s transformational role in business Covering cloud computing from what the business leader needs to know, this book describes how IT can nimbly ramp up revenue initiatives, positively impact business operations and costs, and how this allows business leaders to shed worry about technology so they can focus on their business. It also reveals the cloud’s effect on corporate organization structures, the evolution of traditional IT in the global economy, potential benefits and risks of cloud models and most importantly, how the IT function is being rethought by

companies today who are making room for the coming tidal wave that is cloud computing. Why IT and business thinking must change to capture the full potential of cloud computing Topics including emerging cloud solutions, data security, service reliability, the new role of IT and new business organization structures Other titles by Hugos include: Business Agility: Sustainable Prosperity in a Relentlessly Competitive World and Essentials of Supply Chain Management, 2nd Edition Practical and timely, this book reveals why it's worth every company's time and effort to exploit cloud computing's potential for their business's survival and success. A Complete, Practical Guide to Building and Hosting Cloud Services That Deliver Exceptional Business Value In this unique title, key developers of the IBM SmartCloud Enterprise share indispensable insights for developing and operating cloud-based solutions on any cloud platform. Drawing on their unsurpassed in-the-trenches experience, the authors help you develop the new mindset and skills needed to succeed in cloud environments, where development, business, and system operations are linked more tightly than ever. Using examples based on IBM SmartCloud Enterprise, the authors cover a wide variety of cloud "use cases," while also introducing general principles for automating and optimizing IT infrastructure in any cloud environment. They begin by presenting an authoritative, accessible review of cloud computing and Infrastructure as a Service (IaaS) cloud concepts. Next, they demonstrate how to use cloud tools, develop basic cloud applications, and utilize standards to establish interoperability between clouds. Finally, drawing on deep personal experience, they offer best-practice solutions for all facets of cloud hosting, including security, monitoring, performance, availability, and business support. Throughout, they emphasize real-world problem solving, offering numerous code examples and practical demonstrations of real-world tools and utilities. Coverage includes Understanding each cloud deployment model: private, community, public, and hybrid Reviewing key cloud computing use cases, including those based on virtualization and collaboration Developing for the cloud with the LAMP stack, Windows, J2EE, WebSphere, and other technologies Building apps for the IBM SmartCloud Enterprise public infrastructure Using the command line toolkit, Java, and REST APIs to manage IBM SmartCloud Enterprise resources Exploring cloud computing standards and open source projects that promote interoperability among clouds Building cloud applications to customize images, deliver network services, install/manage software, and provide remote desktops Using IBM's powerful self-service and delegated administration models and best-of-breed VM images Leveraging open source projects for cloud service management and virtualization Understanding cloud service security: trusted certificates, identity/access management, SSH, HTTPS, IPSec, application hardening, and much more Monitoring and optimizing performance and availability through the entire system lifecycle Managing, scaling, and automating cloud applications to meet business needs This title will be valuable to every enterprise developer, architect, and IT manager seeking the full benefits of cloud-based services; all ISVs building value-add services on public clouds; and everyone building applications that rely heavily on IaaS, Platform as a Service (PaaS), Software as a Service (SaaS), or Business as a Service (BaaS). Although the use of cloud computing platforms and applications has expanded rapidly, most books on the subject focus on high-level concepts. There has long been a need for a book that provides detailed guidance on how to develop secure clouds. Filling this void, Developing and Securing the Cloud provides a comprehensive overview of cloud computing technology. Supplying step-by-step instruction on how to develop and secure cloud computing platforms and web services, it includes an easy-to-understand, basic-level overview of cloud computing and its supporting technologies. Presenting a framework for secure cloud computing development, the book describes supporting technologies for the cloud such as web services and security. It details the various layers of the cloud computing framework, including the virtual machine monitor and hypervisor, cloud data storage, cloud data management, and virtual network monitor. It also provides several examples of cloud products and prototypes, including private, public, and U.S. government clouds. Reviewing recent developments in cloud computing, the book illustrates the essential concepts, issues, and challenges in developing and securing today's cloud computing platforms and applications. It also examines prototypes built on experimental cloud computing systems that the author and her team have developed at the University of Texas at Dallas. This diverse reference is suitable for those in industry, government, and academia. Technologists will develop the understanding required to select the appropriate tools for particular cloud applications. Developers will discover alternative designs for cloud

development, and managers will understand if it's best to build their own clouds or contract them out. An expert guide to selecting the right cloud service model for your business Cloud computing is all the rage, allowing for the delivery of computing and storage capacity to a diverse community of end-recipients. However, before you can decide on a cloud model, you need to determine what the ideal cloud service model is for your business. Helping you cut through all the haze, Architecting the Cloud is vendor neutral and guides you in making one of the most critical technology decisions that you will face: selecting the right cloud service model(s) based on a combination of both business and technology requirements. Guides corporations through key cloud design considerations Discusses the pros and cons of each cloud service model Highlights major design considerations in areas such as security, data privacy, logging, data storage, SLA monitoring, and more Clearly defines the services cloud providers offer for each service model and the cloud services IT must provide Arming you with the information you need to choose the right cloud service provider, Architecting the Cloud is a comprehensive guide covering everything you need to be aware of in selecting the right cloud service model for you. Securing the Cloud is the first book that helps you secure your information while taking part in the time and cost savings of cloud computing. As companies turn to burgeoning cloud computing technology to streamline and save money, security is a fundamental concern. The cloud offers flexibility, adaptability, scalability, and in the case of security - resilience. Securing the Cloud explains how to make the move to the cloud, detailing the strengths and weaknesses of securing a company's information with different cloud approaches. It offers a clear and concise framework to secure a business' assets while making the most of this new technology. This book considers alternate approaches for securing a piece of the cloud, such as private vs. public clouds, SaaS vs. IaaS, and loss of control and lack of trust. It discusses the cloud's impact on security roles, highlighting security as a service, data backup, and disaster recovery. It also describes the benefits of moving to the cloud - solving for limited availability of space, power, and storage. This book will appeal to network and security IT staff and management responsible for design, implementation and management of IT structures from admins to CSOs, CTOs, CIOs and CISOs. Named The 2011 Best Identity Management Book by InfoSec Reviews Provides a sturdy and stable framework to secure your piece of the cloud, considering alternate approaches such as private vs. public clouds, SaaS vs. IaaS, and loss of control and lack of trust Discusses the cloud's impact on security roles, highlighting security as a service, data backup, and disaster recovery Details the benefits of moving to the cloud-solving for limited availability of space, power, and storage The conventional wisdom on how technology will change the future is wrong. Mark Mills lays out a radically different and optimistic vision for what's really coming. The mainstream forecasts fall into three camps. One considers today as the "new normal," where ordering a ride or food on a smartphone or trading in bitcoins is as good as it's going to get. Another foresees a dystopian era of widespread, digitally driven job- and business-destruction. A third believes that the only technological revolution that matters will be found with renewable energy and electric cars. But according to Mills, a convergence of technologies will instead drive an economic boom over the coming decade, one that historians will characterize as the "Roaring 2020s." It will come not from any single big invention, but from the confluence of radical advances in three primary technology domains: microprocessors, materials, and machines. Microprocessors are increasingly embedded in everything. Materials, from which everything is built, are emerging with novel, almost magical capabilities. And machines, which make and move all manner of stuff, are undergoing a complementary transformation. Accelerating and enabling all of this is the Cloud, history's biggest infrastructure, which is itself based on the building blocks of next-generation microprocessors and artificial intelligence. We've seen this pattern before. The technological revolution that drove the great economic expansion of the twentieth century can be traced to a similar confluence, one that was first visible in the 1920s: a new information infrastructure (telephony), new machines (cars and power plants), and new materials (plastics and pharmaceuticals). Single inventions don't drive great, long-cycle booms. It always takes convergent revolutions in technology's three core spheres—information, materials, and machines. Over history, that's only happened a few times. We have wrung much magic from the technologies that fueled the last long boom. But the great convergence now underway will ignite the 2020s. And this time, unlike any previous historical epoch, we have the Cloud amplifying everything. The next long boom starts now. The Internet of Things offers massive societal and economic opportunities while at the

same time significant challenges, not least the delivery and management of the technical infrastructure underpinning it, the deluge of data generated from it, ensuring privacy and security, and capturing value from it. This Open Access Pivot explores these challenges, presenting the state of the art and future directions for research but also frameworks for making sense of this complex area. This book provides a variety of perspectives on how technology innovations such as fog, edge and dew computing, 5G networks, and distributed intelligence are making us rethink conventional cloud computing to support the Internet of Things. Much of this book focuses on technical aspects of the Internet of Things, however, clear methodologies for mapping the business value of the Internet of Things are still missing. We provide a value mapping framework for the Internet of Things to address this gap. While there is much hype about the Internet of Things, we have yet to reach the tipping point. As such, this book provides a timely entrée for higher education educators, researchers and students, industry and policy makers on the technologies that promise to reshape how society interacts and operates. Theo Lynn is Full Professor of Digital Business at DCU Business School, Ireland and Director of the Irish Institute of Digital Business. John G. Mooney is Associate Professor of Information Systems and Technology Management at the Pepperdine Graziadio Business School, United States. Brian Lee is Director of the Software Research Institute at Athlone Institute of Technology. Patricia Takako Endo is a Postdoctoral Research Fellow at the Irish Institute of Digital Business, Dublin City University, Ireland, and a Professor at Universidade de Pernambuco, Brazil. Explores cloud computing, breaking down the concepts, models, mechanisms, and architectures of this technology while allowing for the financial assessment of resources and how they compare to traditional storage systems. Thomas Edison said it famously, "Genius is 1% inspiration and 99% perspiration." This hard-hitting book is all about that 99%--executing on innovation in the 21st Century world of exponential and unpredictable change. The book, in an innovative multimedia format, provides an agenda for enabling innovation in your organization, and lays out a strategy framework for execution by harnessing the revolutionary business platform, the Cloud. Creativity and great ideas will always be important--but execution is all when it comes to business innovation. Thus, the book is an impassioned plea to reinvent innovation as we know it-- to rethink the fundamental assumptions we have about business innovation and innovate innovation itself. The book provides encyclopedic coverage of the monumental subject of business innovation, including an innovation architecture and an actionable innovation agenda. However, this book is an optional read for incumbent executives! And so is business survival in the global Innovation Economy. Innovate or die. Carpe diem. What is the cloud? Discover the secrets of the cloud through simple explanations that use lots of pictures and lots of examples. Why learn about the cloud? It's the future. The cloud is the future of software, the future of computing, and the future of business. If you're not up on the cloud the future will move on without you. Don't miss out. Not a geek? Don't worry. I wrote this book for you! After reading Explain Cloud Like I'm 10, you will understand the cloud. That's a promise. How do I deliver on that promise? I'll let you in on a little secret: the cloud is not that hard to understand. It's just that nobody has taken the time to explain it properly. take the time. I go slow. You'll learn step-by-step; one idea at a time. You'll learn something new no matter if you're a beginner, someone who knows a little and wants to know more, or someone thinking about a career change. In Explain Cloud Like I'm 10, you'll discover:

- How the cloud got its name. A more interesting story than you might think.
- An intuitive picture based definition of the cloud.
- What it means when someone says a service is in the cloud.
- If stormy weather affects cloud computing.
- How the internet really works. Most people don't know. You will.
- The real genius of cloud computing. Hint: it's not the technology.
- The good, the bad, and the ugly of cloud computing.
- How cloud computing changed how software is made—forever.
- Why Amazon AWS became so popular. Hint: it's not the technology.
- What happens when you press play on Netflix.
- Why Kindle is the perfect example of a cloud service.
- The radically different approaches Apple and Google take to the cloud.
- How Google Maps and Facebook Messenger excel as cloud applications.
- Cloud providers are engaging in a winner-take-all war to addict you to their ecosystems.
- Key ideas like: VM, serverless, container, IaaS, PaaS, SaaS, virtualization, caching, ISP, OpEx, CapEx, network, AMI, EC2, S3, CDN, elastic computing, datacenter, and cloud-native.

And so much more. Sound like gobbledygook? Don't worry! It will all make sense. I've been a programmer and a writer for over 30 years. I've been in cloud computing since the beginning, and

I'm here to help you on your journey to understand the cloud. Consider me your guide. I'll be with you every step of the way. Sound fun? Buy *Explain Cloud Like I'm 10* and let's get started learning about the cloud today! This book offers an introduction to cloud computing and serverless computing for students, researchers and R&D organizations through several practical examples. Rather than focusing exclusively on the computational issues related to cloud computing, the authors focus on addressing the multidisciplinary applications of cloud computing for daily research work in public institutions and private companies in fields such as archaeology, geosciences, computer sciences, medicine and physics. The book also discusses the emergence of serverless computing over the last three years as a means to make computational infrastructures more apparent to users, avoiding the need to concern one's self with the type of server or computing machine needed to perform a computing task. These topics are presented from the perspective of users, researchers and decision-makers, and are approached based on the authors' collective experience on the use and adoption of cloud computing. The easy way to understand and implement cloud computing technology written by a team of experts Cloud computing can be difficult to understand at first, but the cost-saving possibilities are great and many companies are getting on board. If you've been put in charge of implementing cloud computing, this straightforward, plain-English guide clears up the confusion and helps you get your plan in place. You'll learn how cloud computing enables you to run a more green IT infrastructure, and access technology-enabled services from the Internet ("in the cloud") without having to understand, manage, or invest in the technology infrastructure that supports them. You'll also find out what you need to consider when implementing a plan, how to handle security issues, and more. Cloud computing is a way for businesses to take advantage of storage and virtual services through the Internet, saving money on infrastructure and support This book provides a clear definition of cloud computing from the utility computing standpoint and also addresses security concerns Offers practical guidance on delivering and managing cloud computing services effectively and efficiently Presents a proactive and pragmatic approach to implementing cloud computing in any organization Helps IT managers and staff understand the benefits and challenges of cloud computing, how to select a service, and what's involved in getting it up and running Highly experienced author team consults and gives presentations on emerging technologies Cloud Computing For Dummies gets straight to the point, providing the practical information you need to know. The rise of the Data Cloud is ushering in a new era of computing. The world's digital data is mass migrating to the cloud, where it can be more effectively integrated, managed, and mobilized. The data cloud eliminates data siloes and enables data sharing with business partners, capitalizing on data network effects. It democratizes data analytics, making the most sophisticated data science tools accessible to organizations of all sizes. Data exchanges enable businesses to discover, explore, and easily purchase or sell data—opening up new revenue streams. Business leaders have long dreamed of data driving their organizations. Now, thanks to the Data Cloud, nothing stands in their way. A guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The emergence of powerful, always-on cloud utilities has transformed how consumers interact with information technology, enabling video streaming, intelligent personal assistants, and the sharing of content. Businesses, too, have benefited from the cloud, outsourcing much of their information technology to cloud services. Science, however, has not fully exploited the advantages of the cloud. Could scientific discovery be accelerated if mundane chores were automated and outsourced to the cloud? Leading computer scientists Ian Foster and Dennis Gannon argue that it can, and in this book offer a guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The book surveys the technology that underpins the cloud, new approaches to technical problems enabled by the cloud, and the concepts required to integrate cloud services into scientific work. It covers managing data in the cloud, and how to program these services; computing in the cloud, from deploying single virtual machines or containers to supporting basic interactive science experiments to gathering clusters of machines to do data analytics; using the cloud as a platform for automating analysis procedures, machine learning, and analyzing streaming data; building your own cloud with open source software; and cloud security. The book is accompanied by a website, Cloud4SciEng.org, that provides a variety of supplementary material, including exercises, lecture slides, and other resources helpful to readers and instructors. Despite the buzz surrounding the cloud computing,

only a small percentage of 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 actionable real-world lessons regarding planning, design, operations, security, and application transformation. This book teaches business and 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 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 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 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-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 to cloud computing. Get updated trends and definitions in cloud computing, deployment models, and for building or buying cloud services Discover challenges in 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, and migrate legacy applications to the cloud Identify security threats and vulnerabilities unique to the cloud Employ a cloud management system for your enterprise (private or multi-provider hybrid) cloud ecosystem Understand the challenges for becoming an IT service broker leveraging the power of the cloud Never before have we had so much information at our fingertips. You might think that we are better-informed than ever, but there's one thing we can't ask Google: 'What should I be googling?' The way we consume information in the digital age has been blamed for driving political polarisation and leaving us unable to agree on basic facts. It's also making us stupider. Personalised news feeds and social media echo chambers narrow our potential knowledge base. By now, we don't even know what we don't know. In *Head in the Cloud*, William Poundstone investigates the true worth of knowledge. An entertaining manifesto underpinned by big data analysis and illustrated by eye-opening anecdotes, it reveals the surprising benefits of broadening your horizons and provides an unnerving look at the consequences of being ill-informed. Data in the genomics field is booming. In just a few years, organizations such as the National Institutes of Health (NIH) will host 50+ petabytes—or over 50 million gigabytes—of genomic data, and they're turning to cloud infrastructure to make that data available to the research community. How do you adapt analysis tools and protocols to access and analyze that volume of data in the cloud? With this practical book, researchers will learn how to work with genomics algorithms using open source tools including the Genome Analysis Toolkit (GATK), Docker, WDL, and Terra. Geraldine Van der Auwera, longtime custodian of the GATK user community, and Brian O'Connor of the UC Santa Cruz Genomics Institute, guide you through the process. You'll learn by working with real data and genomics algorithms from the field. This book covers: Essential genomics and computing technology background Basic cloud computing operations Getting started with GATK, plus three major GATK Best Practices pipelines Automating analysis with scripted workflows using WDL and Cromwell Scaling up workflow execution in the cloud, including parallelization and cost optimization Interactive analysis in the cloud using Jupyter notebooks Secure collaboration and computational reproducibility using Terra *Cloud Computing: Theory and Practice* provides students and IT professionals with an in-depth analysis of the cloud from the ground up. Beginning with a discussion of parallel computing and architectures and distributed systems, the book turns to contemporary cloud infrastructures, how they are being deployed at leading companies such as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud application across the enterprise using virtualization, resource management and the right amount of networking support, including content delivery networks and storage area networks. Developers will find a complete introduction to application development provided on a variety of platforms. Learn about recent trends in cloud computing in critical areas such as: resource management, security, energy consumption, ethics, and complex systems Get a detailed hands-on set of practical recipes that help simplify the deployment of a cloud based system for practical use of computing clouds along with an in-depth discussion of several projects Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to succeed than previous efforts in large-

scale distributed computing The militarized legacy of the digital cloud: how the cloud grew out of older network technologies and politics. We may imagine the digital cloud as placeless, mute, ethereal, and unmediated. Yet the reality of the cloud is embodied in thousands of massive data centers, any one of which can use as much electricity as a midsized town. Even all these data centers are only one small part of the cloud. Behind that cloud-shaped icon on our screens is a whole universe of technologies and cultural norms, all working to keep us from noticing their existence. In this book, Tung-Hui Hu examines the gap between the real and the virtual in our understanding of the cloud. Hu shows that the cloud grew out of such older networks as railroad tracks, sewer lines, and television circuits. He describes key moments in the prehistory of the cloud, from the game "Spacewar" as exemplar of time-sharing computers to Cold War bunkers that were later reused as data centers. Countering the popular perception of a new "cloudlike" political power that is dispersed and immaterial, Hu argues that the cloud grafts digital technologies onto older ways of exerting power over a population. But because we invest the cloud with cultural fantasies about security and participation, we fail to recognize its militarized origins and ideology. Moving between the materiality of the technology itself and its cultural rhetoric, Hu's account offers a set of new tools for rethinking the contemporary digital environment. The must-read summary of Charles Babcock's book: "Management Strategies for the Cloud Revolution: How Cloud Computing is Transforming Business and Why You Can't Afford to Be Left Behind". This complete summary of the ideas from Charles Babcock's book "Management Strategies for the Cloud Revolution" shows that cloud computing offers a new distribution model where many services are delivered and made available online rather than by in-house computers. In his book, the author explains how this will transform not only the way in which business gets done, but also the fields of education, entertainment and the arts. Companies must learn about it, and plan how to use it, before they get left behind. This summary provides readers with a comprehensive guide to the ins and outs of cloud computing, giving examples of how it is currently being used and highlighting its advantages. Added-value of this summary: • Save time • Understand key concepts • Expand your knowledge To learn more, read "Management Strategies for the Cloud Revolution" and discover why you should find out about cloud computing and what it can do for your company. Security and smart spaces are among the most significant topics in IoT nowadays. The implementation of secured smart spaces is at the heart of this concept, and its development is a key issue in the next generation IoT. This book addresses major security aspects and challenges in realizing smart spaces and sensing platforms in critical Cloud and IoT applications. The book focuses on both the design and implementation aspects of security models and strategies in smart that are enabled by wireless sensor networks and RFID systems. It mainly examines seamless data access approaches and encryption and decryption aspects in reliable IoT systems. NEW YORK TIMES BESTSELLER • The founder and co-CEO of Salesforce delivers an inspiring vision for successful companies of the future—in which changing the world is everyone's business. "The gold standard on how to use business as a platform for change at this urgent time."—Ray Dalio, founder of Bridgewater Associates and author of Principles: Life and Work What's the secret to business growth and innovation and a purpose-driven career in a world that is becoming vastly more complicated by the day? According to Marc Benioff, the answer is embracing a culture in which your values permeate everything you do. In Trailblazer, Benioff gives readers a rare behind-the-scenes look at the inner workings of one of the world's most admired companies. He reveals how Salesforce's core values—trust, customer success, innovation, and equality—and commitment to giving back have become the company's greatest competitive advantage and the most powerful engine of its success. Because no matter what business you're in, Benioff says, values are the bedrock of a resilient company culture that inspires all employees, at every level, to do the best work of their lives. Along the way, he shares insights and best practices for anyone who wants to cultivate a company culture positioned to thrive in the face of the inevitable disruption ahead. None of us in the business world can afford to sit on the sidelines and ignore what's going on outside the walls of our workplaces. In the future, profits and progress will no longer be sustainable unless they serve the greater good. Whether you run a company, lead a small team, or have just draped an ID badge around your neck for the first time, Trailblazer reveals how anyone can become an agent of change. Praise for Trailblazer "A guide for what every business and organization must do to thrive in this period of profound political and economic change."—Jamie Dimon, chairman and CEO of JPMorgan Chase

"In Trailblazer, Benioff explores how companies can nurture a values-based culture to become powerful platforms for change."—Susan Wojcicki, CEO of YouTube This invaluable guide addresses the Why, What, and How of enterprise cloud adoption, leveraging a clear framework and proven best practices from Microsoft's own experience. "Great book. What's particularly impressive is the outline of steps Microsoft itself is taking in its move to the cloud. Do as I do is always more powerful than do as I say." —Al Ries, Coauthor, War in the Boardroom "This book takes on enterprise cloud adoption to a level I've not seen before—made even more elegant with its structured framework and crisp approach." —Anthony D. Christie, CMO, Level 3 Communications, Former CTO/CIO, Global Crossing "A practical and timely guide that covers the entire journey to the cloud from an enterprise perspective, including business, technology, and organizational impact." —Bart Luijten, CIO Corporate Functions & Corporate Technology, Philips "The cloud powers business solutions for building tomorrow's enterprise and this book offers a simple, well-structured, and high-level process map for cloud adoption." —Kris Gopalakrishnan, Executive Co-Chairman, Infosys Limited Cloud computing is full of tremendous opportunity, but is also riddled with hype and confusion. Business and technology leaders know the cloud is essential, but lack clarity and experience. To the Cloud cuts through the noise and addresses the Why, What, and How of enterprise cloud adoption. The book lays out a four-step framework leveraging the experience and best practices of Microsoft's own IT group. It provides end-to-end business and technology guidance, including how to analyze application portfolios to identify good cloud candidates, choose the right cloud models, consider architecture and security, and understand how shifting operations to the cloud affects budgeting and staffing. The book is applicable to all cloud platforms and providers, and debunks myths in its clear and concise style (e.g., real clouds are more than just web hosting, virtualization, or the Internet itself rebranded). It takes a balanced approach, addressing concerns and hybrid adoption scenarios alike. Leveraging the authors' proven expertise working for Microsoft's CIO on cloud migration and with cloud platform development teams, the book is supported by clear frameworks, graphics, tables, summaries, and checklists to provide a true practitioner's guide to the cloud. In this book, you will learn how to Explore cloud computing to understand its promise and challenges Envision how cloud computing can transform your organization Enable your organization with the necessary resources and skills Execute the design, development, and operation of cloud workloads To the Cloud is an essential guide for IT professionals seeking to lower total cost of ownership, improve the return on IT investment of existing services, or help the business bring new products to market more quickly. "The emergence of the networked information economy is unleashing two powerful forces. On one hand, easy access to high-speed networks is empowering individuals. People can now discover and consume information resources and services globally from their homes. Further, new social computing approaches are inviting people to share in the creation and edification of information on the Internet. Empowerment of the individual -- or consumerization -- is reducing the individual's reliance on traditional brick-and-mortar institutions in favor of new and emerging virtual ones. Second, ubiquitous access to high-speed networks along with network standards, open standards and content, and techniques for virtualizing hardware, software, and services is making it possible to leverage scale economies in unprecedented ways. What appears to be emerging is industrial-scale computing -- a standardized infrastructure for delivering computing power, network bandwidth, data storage and protection, and services. Consumerization and industrialization beg the question "Is this the end of the middle?"; that is, what will be the role of "enterprise" IT in the future? Indeed, the bigger question is what will become of all of our intermediating institutions? This volume examines the impact of IT on higher education and on the IT organization in higher education." -Web site blurb. This book provides solutions for securing important data stored in something as nebulous sounding as a cloud. A primer on the concepts behind security and the cloud, it explains where and how to store data and what should be avoided at all costs. It presents the views and insight of the leading experts on the state of cloud computing security and its future. It also provides no-nonsense info on cloud security technologies and models. Securing the Cloud: Security Strategies for the Ubiquitous Data Center takes the position that cloud security is an extension of recognized, established security principles into cloud-based deployments. It explores how those principles can be put into practice to protect cloud-based infrastructure and data, traditional infrastructure, and hybrid architectures combining cloud and on-premises

infrastructure. Cloud computing is evolving so rapidly that regulations and technology have not necessarily been able to keep pace. IT professionals are frequently left to force fit pre-existing solutions onto new infrastructure and architectures for which they may be very poor fits. This book looks at how those "square peg/round hole" solutions are implemented and explains ways in which the pegs, the holes, or both may be adjusted for a more perfect fit. The Internet of Things offers massive societal and economic opportunities while at the same time significant challenges, not least the delivery and management of the technical infrastructure underpinning it, the deluge of data generated from it, ensuring privacy and security, and capturing value from it. This Open Access Pivot explores these challenges, presenting the state of the art and future directions for research but also frameworks for making sense of this complex area. This book provides a variety of perspectives on how technology innovations such as fog, edge and dew computing, 5G networks, and distributed intelligence are making us rethink conventional cloud computing to support the Internet of Things. Much of this book focuses on technical aspects of the Internet of Things, however, clear methodologies for mapping the business value of the Internet of Things are still missing. We provide a value mapping framework for the Internet of Things to address this gap. While there is much hype about the Internet of Things, we have yet to reach the tipping point. As such, this book provides a timely entrée for higher education educators, researchers and students, industry and policy makers on the technologies that promise to reshape how society interacts and operates. 2033. The first alien radio transmissions have been received on Earth—a torrent of encrypted information that no human or computer can crack. But the decision to reply is made, and messages of goodwill are beamed into deep space. Thirty years later, just as humankind is expecting a reply from the aliens, the signals disappear. Then scientists detect a space cloud approaching the solar system at high speed. Immense in size, immeasurable in power, this blazing storm of energy is on a collision course with Earth. As one man desperately struggles to decode the original transmissions, Earth prepares to launch a nuclear attack against a seemingly unstoppable foe. As the cloud rages through the solar system, the alien code is finally broken—and mankind realizes that the enemy is far closer than they knew.... Cloud computing and big data are arguably the most significant forces in information technology today. In the wake of revelations about National Security Agency (NSA) activities, many of which occur "in the cloud", this book offers both enlightenment and a critical view. Vincent Mosco explores where the cloud originated, what it means, and how important it is for business, government and citizens. He describes the intense competition among cloud companies like Amazon and Google, the spread of the cloud to government agencies like the controversial NSA, and the astounding growth of entire cloud cities in China. Is the cloud the long-promised information utility that will solve many of the world's economic and social problems? Or is it just marketing hype? To the Cloud provides the first thorough analysis of the potential and the problems of a technology that may very well disrupt the world. This book provides solutions for securing important data stored in something as nebulous sounding as a cloud. A primer on the concepts behind security and the cloud, it explains where and how to store data and what should be avoided at all costs. It presents the views and insight of the leading experts on the state of cloud computing security and its future. It also provides no-nonsense info on cloud security technologies and models. Securing the Cloud: Security Strategies for the Ubiquitous Data Center takes the position that cloud security is an extension of recognized, established security principles into cloud-based deployments. It explores how those principles can be put into practice to protect cloud-based infrastructure and data, traditional infrastructure, and hybrid architectures combining cloud and on-premises infrastructure. Cloud computing is evolving so rapidly that regulations and technology have not necessarily been able to keep pace. IT professionals are frequently left to force fit pre-existing solutions onto new infrastructure and architectures for which they may be very poor fits. This book looks at how those "square peg/round hole" solutions are implemented and explains ways in which the pegs, the holes, or both may be adjusted for a more perfect fit. keep pace. IT professionals are frequently left to force fit pre-existing solutions onto new infrastructure and architectures for which they may be very poor fits. This book looks at how those "square peg/round hole" solutions are implemented and explains ways in which the pegs, the holes, or both may be adjusted for a more perfect fit. Learn and understand the need to architect cloud applications and migrate your business to cloud efficiently Key Features Understand the core design elements required to build scalable systems Plan resources

and technology stacks effectively for high security and fault tolerance Explore core architectural principles using real-world examples Book Description Cloud computing has proven to be the most revolutionary IT development since virtualization. Cloud native architectures give you the benefit of more flexibility over legacy systems. To harness this, businesses need to refresh their development models and architectures when they find they don't port to the cloud. Cloud Native Architectures demonstrates three essential components of deploying modern cloud native architectures: organizational transformation, deployment modernization, and cloud native architecture patterns. This book starts with a quick introduction to cloud native architectures that are used as a base to define and explain what cloud native architecture is and is not. You will learn what a cloud adoption framework looks like and develop cloud native architectures using microservices and serverless computing as design principles. You'll then explore the major pillars of cloud native design including scalability, cost optimization, security, and ways to achieve operational excellence. In the concluding chapters, you will also learn about various public cloud architectures ranging from AWS and Azure to the Google Cloud Platform. By the end of this book, you will have learned the techniques to adopt cloud native architectures that meet your business requirements. You will also understand the future trends and expectations of cloud providers.

What you will learn Learn the difference between cloud native and traditional architecture Explore the aspects of migration, when and why to use it Identify the elements to consider when selecting a technology for your architecture Automate security controls and configuration management Use infrastructure as code and CICD pipelines to run environments in a sustainable manner Understand the management and monitoring capabilities for AWS cloud native application architectures Who this book is for Cloud Native Architectures is for software architects who are keen on designing resilient, scalable, and highly available applications that are native to the cloud. Cloud computing is the most significant technology development of our lifetimes. It has made countless new businesses possible and presents a massive opportunity for large enterprises to innovate like startups and retire decades of technical debt. But making the most of the cloud requires much more from enterprises than just a technology change. Stephen Orban led Dow Jones's journey toward digital agility as their CIO and now leads AWS's Enterprise Strategy function, where he helps leaders from the largest companies in the world transform their businesses. As he demonstrates in this book, enterprises must re-train their people, evolve their processes, and transform their cultures as they move to the cloud. By bringing together his experiences and those of a number of business leaders, Orban shines a light on what works, what doesn't, and how enterprises can transform themselves using the cloud. In Art class one girl never draws anything. But one of her classmates is determined to make her smile. This book focuses on the development and implementation of cloud-based, complex software that allows parallelism, fast processing, and real-time connectivity. Software engineering (SE) is the design, development, testing, and implementation of software applications, and this discipline is as well developed as the practice is well established whereas the Cloud Software Engineering (CSE) is the design, development, testing, and continuous delivery of service-oriented software systems and applications (Software as a Service Paradigm). However, with the emergence of the highly attractive cloud computing (CC) paradigm, the tools and techniques for SE are changing. CC provides the latest software development environments and the necessary platforms relatively easily and inexpensively. It also allows the provision of software applications equally easily and on a pay-as-you-go basis. Business requirements for the use of software are also changing and there is a need for applications in big data analytics, parallel computing, AI, natural language processing, and biometrics, etc. These require huge amounts of computing power and sophisticated data management mechanisms, as well as device connectivity for Internet of Things (IoT) environments. In terms of hardware, software, communication, and storage, CC is highly attractive for developing complex software that is rapidly becoming essential for all sectors of life, including commerce, health, education, and transportation. The book fills a gap in the SE literature by providing scientific contributions from researchers and practitioners, focusing on frameworks, methodologies, applications, benefits and inherent challenges/barriers to engineering software using the CC paradigm. This latest textbook from bestselling author, Douglas E. Comer, is a class-tested book providing a comprehensive introduction to cloud computing. Focusing on concepts and principles, rather than commercial offerings by cloud providers and vendors, The Cloud Computing

Book: The Future of Computing Explained gives readers a complete picture of the advantages and growth of cloud computing, cloud infrastructure, virtualization, automation and orchestration, and cloud-native software design. The book explains real and virtual data center facilities, including computation (e.g., servers, hypervisors, Virtual Machines, and containers), networks (e.g., leaf-spine architecture, VLANs, and VxLAN), and storage mechanisms (e.g., SAN, NAS, and object storage). Chapters on automation and orchestration cover the conceptual organization of systems that automate software deployment and scaling. Chapters on cloud-native software cover parallelism, microservices, MapReduce, controller-based designs, and serverless computing. Although it focuses on concepts and principles, the book uses popular technologies in examples, including Docker containers and Kubernetes. Final chapters explain security in a cloud environment and the use of models to help control the complexity involved in designing software for the cloud. The text is suitable for a one-semester course for software engineers who want to understand cloud, and for IT managers moving an organization's computing to the cloud. Applies lean manufacturing principles across the cloud service delivery chain to enable application and infrastructure service providers to sustainably achieve the shortest lead time, best quality, and value Applies lean thinking across the cloud service delivery chain to recognize and minimize waste Leverages lessons learned from electric power industry operations to operations of cloud infrastructure Applies insights from just-in-time inventory management to operation of cloud based applications Explains how traditional, Information Technology Infrastructure Library (ITIL) and Enhanced Telecom Operation Map (eTOM) capacity management evolves to lean computing for the cloud

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