

Data Retention In Real Time Hewlett Packard Enterprise

Terrestrial neutron-induced soft errors in semiconductor memory devices are currently a major concern in reliability issues. Understanding the mechanism and quantifying soft-error rates are primarily crucial for the design and quality assurance of semiconductor memory devices. This book covers the relevant up-to-date topics in terrestrial neutron-induced soft errors, and aims to provide succinct knowledge on neutron-induced soft errors to the readers by presenting several valuable and unique features.

The only official body of knowledge for CCSP—the most popular cloud security credential—fully revised and updated. Certified Cloud Security Professional (CCSP) certification validates the advanced technical skills needed to design, manage, and secure data, applications, and infrastructure in the cloud. This highly sought-after global credential has been updated with revised objectives. The new third edition of The Official (ISC)2 Guide to the CCSP CBK is the authoritative, vendor-neutral common body of knowledge for cloud security professionals. This comprehensive resource provides cloud security professionals with an indispensable working reference to each of the six CCSP domains: Cloud Concepts, Architecture, and Design; Cloud Data Security; Cloud Platform and Infrastructure Security; Cloud Application Security; Cloud Security Operations; and Legal, Risk, and Compliance. Detailed, in-depth chapters contain the accurate information required to prepare for and achieve CCSP certification. Every essential area of cloud security is covered, including implementation, architecture, operations, controls, and immediate and long-term responses. Developed by (ISC)2, the world leader in professional cybersecurity certification and training, this indispensable guide: Covers the six CCSP domains and over 150 detailed objectives Provides guidance on real-world best practices and techniques Includes illustrated examples, tables, diagrams and sample questions The Official (ISC)2 Guide to the CCSP CBK is a vital ongoing resource for IT and information security leaders responsible for applying best practices to cloud security architecture, design, operations and service orchestration.

Developers often struggle when first encountering the cloud. Learning about distributed systems, becoming familiar with technologies such as containers and functions, and knowing how to put everything together can be daunting. With this practical guide, you'll get up to speed on patterns for building cloud native applications and best practices for common tasks such as messaging, eventing, and DevOps. Authors Boris Scholl, Trent Swanson, and Peter Jausovec describe the architectural building blocks for a modern cloud native application. You'll learn how to use microservices, containers, serverless computing, storage types, portability, and functions. You'll also explore the fundamentals of cloud native applications, including how to design, develop, and operate them. Explore the technologies you need to design a cloud native application Distinguish between containers and functions, and learn when to use them Architect applications for data-related requirements Learn DevOps fundamentals and practices for developing, testing, and operating your applications Use tips, techniques, and best practices for building and managing cloud native applications Understand the costs and trade-offs necessary to make an application portable The Council of Europe Convention on the Manipulation of Sports Competitions is the first legally binding international tool to fight match-fixing. Its purpose is to prevent, detect and punish the manipulation of sports competitions, as well as to enhance the exchange of information and national and international co-operation between the public authorities concerned and with sports organisations and sports betting operators.

This book constitutes the refereed proceedings of the 8th International Conference on Informatics in Schools: Situation, Evolution, and

Perspectives, ISSEP 2015, held in Ljubljana, Slovenia, in September/October 2015. The 14 full papers presented together with 3 invited talks were carefully reviewed and selected from 36 submissions. The focus of the conference was on following topics: sustainable education in informatics for pupils of all ages; connecting informatics lessons to the students' everyday lives; teacher education in informatics; and research on informatics in schools (empirical/qualitative/quantitative/theory building/research methods/comparative studies/transferability of methods and results from other disciplines).

Telecoms and Media, edited by Alexander Brown and Peter Broadhurst of Simmons & Simmons, summarises the main issues related to T&M regulation and policy in a global context including: government policy, WTO Basic Telecommunications Agreement commitments, fixed, mobile and satellite services, radio frequency requirements, next-generation mobile services, authorisation timescales and fees, modification and assignment of licences, radio spectrum assignment, cable networks, local loop access, internet regulation, broadband penetration, interconnection and inter-operator disputes, charges and tariffs, customer terms and conditions, media licensing, content and advertising restrictions, exclusivity and ownership restrictions, unsolicited and intercepted communications and competition and merger control. In an easy-to-use question and answer format, trusted and reliable information on key topics of law and regulation in this area is provided by leading practitioners around the world. As well as in-depth comparative study of the topic in 34 jurisdictions there are also editorial chapters covering smart cities; net neutrality update for the United States and a global overview. "The comprehensive range of guides produced by GTDT provides practitioners with an extremely useful resource when seeking an overview of key areas of law and policy in practice areas or jurisdictions which they may otherwise be unfamiliar with." Gareth Webster, Centrica Energy E&P

Continuous Auditing provides academics and practitioners with a compilation of select continuous auditing design science research, and it provides readers with an understanding of the underlying theoretical concepts of a continuous audit, ideas on how continuous audit can be applied in practice, and what has and has not worked in research.

Threatening the safety of individuals, computers, and entire networks, cyber crime attacks vary in severity and type. Studying this continually evolving discipline involves not only understanding different types of attacks, which range from identity theft to cyberwarfare, but also identifying methods for their prevention. Cyber Crime: Concepts, Methodologies, Tools and Applications is a three-volume reference that explores all aspects of computer-based crime and threats, offering solutions and best practices from experts in software development, information security, and law. As cyber crime continues to change and new types of threats emerge, research focuses on developing a critical understanding of different types of attacks and how they can best be managed and eliminated.

The widespread use of information and communications technology (ICT) has created a global platform for the exchange of ideas, goods and services, the benefits of which are enormous. However, it has also created boundless opportunities for fraud and deception. Cybercrime is one of the biggest growth industries around the globe, whether it is in the form of violation of company policies, fraud, hate crime, extremism, or terrorism. It is therefore paramount that the security industry raises its game to combat these threats. Today's top priority is to use computer technology to fight computer crime, as our commonwealth is protected by firewalls rather than firepower. This is an issue of global importance as new technologies have provided a world of opportunity for

criminals. This book is a compilation of the collaboration between the researchers and practitioners in the security field; and provides a comprehensive literature on current and future e-security needs across applications, implementation, testing or investigative techniques, judicial processes and criminal intelligence. The intended audience includes members in academia, the public and private sectors, students and those who are interested in and will benefit from this handbook.

This book constitutes the refereed proceedings of the Second International Conference on Trust Management, iTrust 2004, held in Oxford, UK, in March/April 2004. The 21 revised full papers and 6 revised short papers presented together with 3 invited contributions were carefully reviewed and selected from 48 submissions. Besides technical topics in distributed and open systems, issues from law, social sciences, business, and philosophy are addressed in order to develop a deeper and more fundamental understanding of the issues and challenges in the area of trust management in dynamic open systems.

The ability to uncover, share, and utilize knowledge is one of the most vital components to the success of any organization. While new technologies and techniques of knowledge dissemination are promising, there is still a struggle to derive and circulate meaningful information from large data sets. Strategic Data-Based Wisdom in the Big Data Era combines the latest empirical research findings, best practices, and applicable theoretical frameworks surrounding data analytics and knowledge acquisition. Providing a multi-disciplinary perspective of the subject area, this book is an essential reference source for professionals and researchers working in the field of knowledge management who would like to improve their understanding of the strategic role of data-based wisdom in different types of work communities and environments.

This book constitutes the refereed conference proceedings of the 8th Annual Privacy Forum, APF 2020, held in Lisbon, Portugal, in October 2020. The 12 revised full papers were carefully reviewed and selected from 59 submissions. The papers are organized in topical sections on impact assessment; privacy by design; data protection and security; and transparency.

Chapter "Predictive Policing in 2025: A Scenario" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

This book is designed as a popular science book on big data analytics in intelligent transportation systems. It aims to provide an introduction to big-data transportation starting from an overview on the development of big data transportation in various countries. This is followed by a discussion on the blueprint strategies of big data transportation which include innovative models, planning, transportation logistics, and application case studies. Finally, the book discusses applications of big data transportation platforms. Explore how a data storage system works – from data ingestion to representation Key Features Understand how artificial intelligence, machine learning, and deep learning are different from one another Discover the data storage requirements of different AI apps using case studies Explore popular data solutions such as Hadoop Distributed File System (HDFS) and Amazon Simple Storage Service (S3) Book Description Social networking sites see an average of 350 million uploads daily - a quantity impossible for humans to scan and analyze. Only AI can do this job at the required speed, and to leverage an AI application at its full potential, you need an efficient and scalable data storage pipeline. The Artificial Intelligence Infrastructure Workshop will teach

you how to build and manage one. The Artificial Intelligence Infrastructure Workshop begins taking you through some real-world applications of AI. You'll explore the layers of a data lake and get to grips with security, scalability, and maintainability. With the help of hands-on exercises, you'll learn how to define the requirements for AI applications in your organization. This AI book will show you how to select a database for your system and run common queries on databases such as MySQL, MongoDB, and Cassandra. You'll also design your own AI trading system to get a feel of the pipeline-based architecture. As you learn to implement a deep Q-learning algorithm to play the CartPole game, you'll gain hands-on experience with PyTorch. Finally, you'll explore ways to run machine learning models in production as part of an AI application. By the end of the book, you'll have learned how to build and deploy your own AI software at scale, using various tools, API frameworks, and serialization methods. What you will learn

Get to grips with the fundamentals of artificial intelligence
Understand the importance of data storage and architecture in AI applications
Build data storage and workflow management systems with open source tools
Containerize your AI applications with tools such as Docker
Discover commonly used data storage solutions and best practices for AI on Amazon Web Services (AWS)
Use the AWS CLI and AWS SDK to perform common data tasks

Who this book is for
If you are looking to develop the data storage skills needed for machine learning and AI and want to learn AI best practices in data engineering, this workshop is for you. Experienced programmers can use this book to advance their career in AI. Familiarity with programming, along with knowledge of exploratory data analysis and reading and writing files using Python will help you to understand the key concepts covered.

This book challenges institutions and their programs to prioritize the use of chronological assessment results to benefit enrolled students in comparison with the more common practice of prolonged assessment cycles that generally benefit future students. Peggy Maki advocates for real-time assessment processes to identify patterns of underperformance and obstacles that require timely interventions for enrolled students to succeed. In tandem with the sets of educational practices and policies that many institutions have now undertaken to close achievement and graduation rates across our diverse student demographics, such as developing clear degree pathways, she calls on all higher education providers – if they are to remain relevant and meet their social purpose in our complex world – to urgently recalibrate their assessment processes to focus on currently enrolled students' progress towards achieving a high-quality degree, regardless of when they matriculate or re-enter higher education. She demonstrates that we already have sufficient examples and evidence to implement real-time assessment of students as they progress through their studies. She draws on the practices of specialized accredited programs, such as those in the professions that assess in real time; on the experiences of institutions that have adopted competency-based education; and on the affordances of technologies that now provide faculty and students with up-to-the-minute diagnostics. She identifies the six principles necessary to implement a real-time assessment process, illustrated by case studies of how campuses have operationalized them to advance students' equitable progress towards achieving a high-quality degree; and demonstrates the benefits of real-time assessment compared to more future-oriented processes, among which is engaging students in reflecting on their own progress along their degree pathways. She advocates for the use of well documented national outcomes-based frameworks such as Liberal Education

and America's Promise (LEAP), its aligned Valid Assessment of Learning in Undergraduate Education scoring rubrics (VALUE), the Degree Qualifications Profile, and discipline-based outcomes assessments to ensure high-quality degrees that meet well-defined standards and criteria. She also identifies how data systems and technological developments help to monitor closely and respond in time to students' patterns of underperformance. The book is an urgent call for higher education to achieve the values of equity, transparency and quality it espouses; and ensure that all students graduate in a timely fashion with the competencies they need to be active and productive citizens.

'...the most widely accepted set of criteria for computer security.' Financial Times The 'Orange Book' Series, produced by the American Department of Defense is as yet the only guide to effective computer security for both military and commercial sectors. These 17 documents provide a comprehensive set of guidelines both for people needing to introduce computer security measures and for companies developing secure computer systems and products. It contains details of the various security mechanisms that have been developed over time and the relevance of these to existing policies; how to test for an adequate implementation in a product and engineering techniques to be used as part of the assurance activities that form part of the product evaluation. Develop proficiency in AWS technologies and validate your skills by becoming an AWS Certified Cloud Practitioner Key Features Develop the skills to design highly available and fault-tolerant solutions in the cloud Learn how to adopt best-practice security measures in your cloud applications Achieve credibility through industry-recognized AWS Cloud Practitioner certification Book Description Amazon Web Services is the largest cloud computing service provider in the world. Its foundational certification, AWS Certified Cloud Practitioner (CLF-C01), is the first step to fast-tracking your career in cloud computing. This certification will add value even to those in non-IT roles, including professionals from sales, legal, and finance who may be working with cloud computing or AWS projects. If you are a seasoned IT professional, this certification will make it easier for you to prepare for more technical certifications to progress up the AWS ladder and improve your career prospects. The book is divided into four parts. The first part focuses on the fundamentals of cloud computing and the AWS global infrastructure. The second part examines key AWS technology services, including compute, network, storage, and database services. The third part covers AWS security, the shared responsibility model, and several security tools. In the final part, you'll study the fundamentals of cloud economics and AWS pricing models and billing practices. Complete with exercises that highlight best practices for designing solutions, detailed use cases for each of the AWS services, quizzes, and two complete practice tests, this CLF-C01 exam study guide will help you gain the knowledge and hands-on experience necessary to ace the AWS Certified Cloud Practitioner exam. What you will learn Create an AWS account to access AWS cloud services in a secure and isolated environment Understand identity and access management (IAM), encryption, and multifactor authentication (MFA) protection Configure multifactor authentication for your IAM accounts Configure AWS services such as EC2, ECS, Lambda, VPCs, and Route53 Explore various storage and database services such as S3, EBS, and Amazon RDS Study the fundamentals of modern application design to shift from a monolithic to microservices architecture Design highly available solutions with decoupling ingrained in your design architecture Who this book is for If you're

looking to advance your career and gain expertise in cloud computing, with particular focus on the AWS platform, this book is for you. This guide will help you ace the AWS Certified Cloud Practitioner Certification exam, enabling you to embark on a rewarding career in cloud computing. No previous IT experience is essential to get started with this book, since it covers core IT fundamentals from the ground up.

This is an open access title available under the terms of a CC BY-NC-ND 4.0 International licence. It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations. This book is the culmination of nearly six years of research initiated by Fred Cate and Jim Dempsey to examine national practices and laws regarding systematic government access to personal information held by private-sector companies. Leading an effort sponsored by The Privacy Projects, they commissioned a series of country reports, asking national experts to uncover what they could about government demands on telecommunications providers and other private-sector companies to disclose bulk information about their customers. Their initial research found disturbing indications of systematic access in countries around the world. These data collection programs, often undertaken in the name of national security, were cloaked in secrecy and largely immune from oversight, posing serious threats to personal privacy. After the Snowden leaks confirmed these initial findings, the project morphed into something more ambitious: an effort to explore what should be the rules for government access to private-sector data, and how companies should respond to government demands for access. This book contains twelve updated country reports plus eleven analytic chapters that present descriptive and normative frameworks for assessing national surveillance laws, survey evolving international law and human rights principles applicable to government surveillance, and describe oversight mechanisms. It also explores the concept of accountability and the role of encryption in shaping the surveillance debate. Cate and Dempsey conclude by offering recommendations for both governments and industry.

With this practical book, AI and machine learning practitioners will learn how to successfully build and deploy data science projects on Amazon Web Services. The Amazon AI and machine learning stack unifies data science, data engineering, and application development to help level up your skills. This guide shows you how to build and run pipelines in the cloud, then integrate the results into applications in minutes instead of days. Throughout the book, authors Chris Fregly and Antje Barth demonstrate how to reduce cost and improve performance. Apply the Amazon AI and ML stack to real-world use cases for natural language processing, computer vision, fraud detection, conversational devices, and more Use automated machine learning to implement a specific subset of use cases with SageMaker Autopilot Dive deep into the complete model development lifecycle for a BERT-based NLP use case including data ingestion, analysis, model training, and deployment Tie everything together into a repeatable machine learning operations pipeline Explore real-time ML, anomaly detection, and streaming analytics on data streams with Amazon Kinesis and Managed Streaming for Apache Kafka Learn security best practices for data science projects and workflows including identity and access management, authentication, authorization, and more

This book discusses the evolution of future-generation technologies through the Internet of things, bringing together all the related

technologies on a single platform to offer valuable insights for undergraduate and postgraduate students, researchers, academics and industry practitioners. The book uses data, network engineering and intelligent decision- support system-by-design principles to design a reliable IoT-enabled ecosystem and to implement cyber-physical pervasive infrastructure solutions. It takes readers on a journey that begins with understanding the insight paradigm of IoT-enabled technologies and how it can be applied. It walks readers through engaging with real-time challenges and building a safe infrastructure for IoT-based, future-generation technologies. The book helps researchers and practitioners to understand the design architecture through IoT and the state of the art in IoT countermeasures. It also highlights the differences between heterogeneous platforms in IoT-enabled infrastructure and traditional ad hoc or infrastructural networks, and provides a comprehensive discussion on functional frameworks for IoT, object identification, IoT domain model, RFID technology, wearable sensors, WBAN, IoT semantics, knowledge extraction, and security and privacy issues in IoT-based ecosystems. Written by leading international experts, it explores IoT-enabled insight paradigms, which are utilized for the future benefit of humans. It also includes references to numerous works. Divided into stand-alone chapters, this highly readable book is intended for specialists, researchers, graduate students, designers, experts, and engineers involved in research on healthcare-related issues.

This practical guide takes a hands-on approach to implementation and associated methodologies to have you up and running with all that Amazon Kinesis has to offer. You'll work with use cases and practical examples to be able to ingest, process, analyze, and stream real-time data in no time.

Real-Time Systems Design and Analysis John Wiley & Sons

"This book identifies key issues in the relationship between ICT and law, ethics, politics and social policy, drawing attention to diverse global approaches to the challenges posed by ICT to access rights"--Provided by publisher.

The leading guide to real-time systems design-revised and updated This third edition of Phillip Laplante's bestselling, practical guide to building real-time systems maintains its predecessors' unique holistic, systems-based approach devised to help engineers write problem-solving software. Dr. Laplante incorporates a survey of related technologies and their histories, complete with time-saving practical tips, hands-on instructions, C code, and insights into decreasing ramp-up times. Real-Time Systems Design and Analysis, Third Edition is essential for students and practicing software engineers who want improved designs, faster computation, and ultimate cost savings. Chapters discuss hardware considerations and software requirements, software systems design, the software production process, performance estimation and optimization, and engineering considerations. This new edition has been revised to include: * Up-to-date information on object-oriented technologies for real-time including object-oriented analysis, design, and languages such as Java, C++, and C# * Coverage of significant developments in the field, such as: New life-cycle methodologies and advanced programming practices for real-time, including Agile methodologies Analysis techniques for commercial real-time operating system technology Hardware advances, including field-programmable gate arrays and memory technology * Deeper coverage of: Scheduling and rate-monotonic theories Synchronization and communication techniques

Software testing and metrics Real-Time Systems Design and Analysis, Third Edition remains an unmatched resource for students and practicing software engineers who want improved designs, faster computation, and ultimate cost savings.

Successful management teams can identify the cost and return derived from the implementation of new technology, and they can properly apply the technology toward gaining a competitive advantage. IT and business managers alike need a resource that enables them to prepare for future operating conditions, identify beneficial solutions, and use high technology to achieve organizational goals. The Real-Time Enterprise analyzes the forward-looking implementation of IT within a business, focusing on how careful planning can improve efficiency while reducing costs. The book includes case studies that emphasize how the most profitable uses of technology are now the real-time response to customer requirements, and the accumulation of knowledge about markets and business partners. Divided into four parts, the text begins by explaining how advanced information technology is a moving target, and why companies that want to benefit from it must set priorities and move quickly. Part II covers many recent developments in IT and its implementation, including smart dust and straight through processing (STP). Part III is made up of case studies that address specific application areas, including credit institutions, treasury operations, risk management, and approaches to replace office automation. The book concludes by exploring a series of prerequisites made necessary by advanced applications. The Real-Time Enterprise provides a perspective on the deployment of strategic information technology, covering guidelines, advanced applications, and practical examples. It delivers a much-needed upgrade of knowledge and skills for IT professionals seeking to progress beyond traditional implementations.

This extensively revised and updated third edition of EU Internet Law offers a state of the art overview of the key areas of EU Internet regulation, as well as a critical evaluation of EU policy-making and governance in the field. It provides an in-depth analysis of the ways in which relevant legal instruments interact, as well as comparative discussions contrasting EU and US solutions.

Today, cloud computing, big data, and the internet of things (IoT) are becoming indubitable parts of modern information and communication systems. They cover not only information and communication technology but also all types of systems in society including within the realms of business, finance, industry, manufacturing, and management. Therefore, it is critical to remain up-to-date on the latest advancements and applications, as well as current issues and challenges. The Handbook of Research on Cloud Computing and Big Data Applications in IoT is a pivotal reference source that provides relevant theoretical frameworks and the latest empirical research findings on principles, challenges, and applications of cloud computing, big data, and IoT. While highlighting topics such as fog computing, language interaction, and scheduling algorithms, this publication is ideally designed for software developers, computer engineers, scientists, professionals, academicians, researchers, and students.

While traveling the data highway through the global village, most people, if they think about it at all, consider privacy a non-forfeitable right. They expect to have control over the ways in which their personal information is obtained, distributed, shared, and used by any other entity. According to recent surveys, privacy, and anonymity are the fundamental issues of concern for most Internet users, ranked higher than ease-of-use, spam, cost, and security. Digital Privacy: Theory, Techniques, and Practices

covers state-of-the-art technologies, best practices, and research results, as well as legal, regulatory, and ethical issues. Editors Alessandro Acquisti, Stefanos Gritzalis, Costas Lambrinoudakis, and Sabrina De Capitani di Vimercati, established researchers whose work enjoys worldwide recognition, draw on contributions from experts in academia, industry, and government to delineate theoretical, technical, and practical aspects of digital privacy. They provide an up-to-date, integrated approach to privacy issues that spells out what digital privacy is and covers the threats, rights, and provisions of the legal framework in terms of technical counter measures for the protection of an individual's privacy. The work includes coverage of protocols, mechanisms, applications, architectures, systems, and experimental studies. Even though the utilization of personal information can improve customer services, increase revenues, and lower business costs, it can be easily misused and lead to violations of privacy. Important legal, regulatory, and ethical issues have emerged, prompting the need for an urgent and consistent response by electronic societies. Currently there is no book available that combines such a wide range of privacy topics with such a stellar cast of contributors. Filling that void, *Digital Privacy: Theory, Techniques, and Practices* gives you the foundation for building effective and legal privacy protocols into your business processes.

The beating heart of any product or service business is returning clients. Don't let your hard-won customers vanish, taking their money with them. In *Fighting Churn with Data* you'll learn powerful data-driven techniques to maximize customer retention and minimize actions that cause them to stop engaging or unsubscribe altogether. Summary The beating heart of any product or service business is returning clients. Don't let your hard-won customers vanish, taking their money with them. In *Fighting Churn with Data* you'll learn powerful data-driven techniques to maximize customer retention and minimize actions that cause them to stop engaging or unsubscribe altogether. This hands-on guide is packed with techniques for converting raw data into measurable metrics, testing hypotheses, and presenting findings that are easily understandable to non-technical decision makers. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Keeping customers active and engaged is essential for any business that relies on recurring revenue and repeat sales. Customer turnover—or “churn”—is costly, frustrating, and preventable. By applying the techniques in this book, you can identify the warning signs of churn and learn to catch customers before they leave. About the book *Fighting Churn with Data* teaches developers and data scientists proven techniques for stopping churn before it happens. Packed with real-world use cases and examples, this book teaches you to convert raw data into measurable behavior metrics, calculate customer lifetime value, and improve churn forecasting with demographic data. By following Zuora Chief Data Scientist Carl Gold's methods, you'll reap the benefits of high customer retention. What's inside Calculating churn metrics Identifying user behavior that predicts churn Using churn reduction tactics with customer segmentation Applying churn analysis techniques to other business areas Using AI for accurate churn forecasting About the reader For readers with basic data analysis skills, including Python and SQL. About the author Carl Gold (PhD) is the Chief Data Scientist at Zuora, Inc., the industry-leading subscription management platform. Table of Contents: PART 1 - BUILDING YOUR ARSENAL 1 The world of churn 2 Measuring churn 3 Measuring customers 4 Observing renewal and churn

PART 2 - WAGING THE WAR 5 Understanding churn and behavior with metrics 6 Relationships between customer behaviors 7 Segmenting customers with advanced metrics PART 3 - SPECIAL WEAPONS AND TACTICS 8 Forecasting churn 9 Forecast accuracy and machine learning 10 Churn demographics and firmographics 11 Leading the fight against churn

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

Privacy for the Smart Grid provides easy-to-understand guidance on data privacy issues and the implications for creating privacy risk management programs, along with privacy policies and practices required to ensure Smart Grid privacy. It addresses privacy in electric, natural gas, and water grids from two different perspectives of the topic, one from a Smart Grid expert and another from a privacy and information security expert. While considering privacy in the Smart Grid, the book also examines the data created by Smart Grid technologies and machine-to-machine applications.

In this IBM® Redbooks® publication we discuss IBM Systems Director Navigator for i, which is a Web console interface for IBM i administration where you can work with the Web-enabled tasks of System i® Navigator. IBM Systems Director Navigator for i includes a number of welcome pages that allow you to quickly find the task that you want to perform. The IBM Systems Director Navigator for i interface is not just a set of URL addressable tasks, but is a robust Web console from which you can manage your IBM i system. However, the System i Navigator Tasks on the Web, which are a set of URL-addressable tasks, can be accessed by using the URL or from within the IBM Systems Director Navigator for i interface. The information in this book is intended to help you start using the Web-based console, IBM Systems Director Navigator for i, by providing you with a look at the new interface as well as tips for working with various parts of the new console.

Create, deploy, and manage applications at scale using SRE principles Key Features Build and run highly available, scalable, and secure software Explore abstract SRE in a simplified and streamlined way Enhance the reliability of cloud environments through SRE enhancements Book Description Site reliability engineering (SRE) is being touted as the most competent paradigm in establishing and ensuring next-generation high-quality software solutions. This book starts by introducing you to the SRE paradigm and covers the need for highly reliable IT platforms and infrastructures. As you make your way through the next set of chapters, you will learn to develop microservices using Spring Boot and make use of RESTful frameworks. You will also learn about GitHub for deployment, containerization, and Docker containers. Practical Site Reliability Engineering teaches you to set up and sustain containerized cloud environments, and also covers architectural and design patterns and reliability implementation techniques such as reactive programming, and languages such as Ballerina and Rust. In the concluding chapters, you will get well-versed with service mesh solutions such as Istio and Linkerd, and understand service resilience test practices, API gateways, and edge/fog computing. By the end of this book, you will have gained experience on working with SRE concepts and be able to deliver highly reliable apps and services. What you will learn Understand how to achieve your SRE goals Grasp Docker-enabled containerization concepts Leverage enterprise DevOps capabilities and Microservices architecture (MSA) Get to grips with the service mesh concept and frameworks such as Istio and Linkerd Discover best practices for performance and resiliency Follow software reliability prediction approaches and enable patterns Understand Kubernetes for container and cloud orchestration Explore the end-to-end software engineering process for the containerized world Who this book is for Practical Site Reliability Engineering helps software developers, IT professionals, DevOps engineers, performance specialists, and system engineers understand how the emerging domain of SRE comes handy in automating and accelerating the process of designing, developing, debugging, and deploying highly reliable applications and services.

AWS is currently the market leader in the public cloud market. With the increasing global interest in leveraging cloud infrastructure, AWS Cloud from Amazon offers a cutting-edge platform for architecting, building, and deploying web-scale cloud applications. This book will help you in performing these tasks easily.

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