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Big Data Analytics with Applications in Insider Threat Detection - Bhavani Thuraisingham 2017-11-22
Today's malware mutates randomly to avoid detection, but reactively adaptive malware is more intelligent, learning and adapting to new computer defenses on the fly. Using the same algorithms that antivirus software uses to detect viruses, reactively adaptive malware deploys those algorithms to outwit antivirus defenses and to go undetected. This book provides details of the tools, the types of malware the tools will

detect, implementation of the tools in a cloud computing framework and the applications for insider threat detection.

Do More Faster - Brad Feld 2019-06-13 Refreshed, updated, and expanded. Do More Faster provides time-tested advice, tips, and experiences by founders and mentors of Techstars to help entrepreneurs succeed! David Cohen and Brad Feld, leading advocates for entrepreneurs and startups, team up to provide first-time entrepreneurs with the tools, insights, and experiences to help them do more faster. The authors share their decades of experience working with thousands of startup founders and have enlisted the advice of dozens of Techstars startup founders and mentors. Contributors include Tim Ferriss, Eric Ries, Matt Mullenweg (WordPress), Isaac Saldana (SendGrid), and other successful entrepreneurs. Co-founders of Techstars, the worldwide network that helps entrepreneurs succeed, Cohen and Feld recognize the daunting task of creating a sustainable business and have seen first-hand the common mistakes first-time entrepreneurs make over and over. The authors take the complexity and uncertainty of starting a business and distill the critical factors into seven themes: Ideas and Vision, People, Working Effectively, Product, Fundraising, Legal and Structure, and Work and Life Harmony. They share their hard-won successes, failures, and advice for anyone with an idea who wants to create a business. Throughout the book crucial questions are raised and addressed from multiple perspectives. ● How important is it to have an original idea? ● How is founder conflict handled? ● What are the tradeoffs between bootstrapping and financing? Make-or-break decisions like company structure, hiring, and legal consequences are presented in an easy-to-understand style. Do More Faster will elevate your thinking on a range of important topics, help you avoid costly mistakes, and provide you with a resource to consult as you go from idea to

successful business. If you have the drive and desire to start a business, need to create a vibrant entrepreneurial ecosystem in your community, or want to spark greater innovation in your organization—don't go it alone. Use the advice, tips, and tactics found throughout Do More Faster to give yourself the best chance of succeeding.

Developing and Securing the Cloud - Bhavani Thuraisingham 2013-10-28

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.

Planning for Big Data - Edd Wilder-James 2012-03-12

In an age where everything is measurable, understanding big data is an essential. From creating new data-driven products through to increasing operational efficiency, big data has the potential to make your organization both more competitive and more innovative. As this emerging field transitions from the bleeding edge to enterprise infrastructure, it's vital to understand not only the technologies involved, but the organizational and cultural demands of being data-driven. Written by O'Reilly Radar's experts on big data, this anthology describes: The broad industry changes heralded by the big data era What big data is, what it means to your business, and how to start solving data problems The software that makes up the Hadoop big data stack, and the major enterprise vendors' Hadoop solutions The landscape of NoSQL databases and their relative merits How visualization plays an important part in data work

Encyclopedia of Information Systems and Technology - Two Volume Set - Phillip A. Laplante 2015-12-29

Spanning the multi-disciplinary scope of information technology, the Encyclopedia of Information Systems and Technology draws together comprehensive coverage of the inter-related aspects of information systems and technology. The topics covered in this encyclopedia encompass internationally recognized bodies of knowledge, including those of The IT BOK, the Chartered Information Technology Professionals Program, the International IT Professional Practice Program (British Computer Society), the Core Body of Knowledge for IT Professionals (Australian

Computer Society), the International Computer Driving License Foundation (European Computer Driving License Foundation), and the Guide to the Software Engineering Body of Knowledge. Using the universally recognized definitions of IT and information systems from these recognized bodies of knowledge, the encyclopedia brings together the information that students, practicing professionals, researchers, and academicians need to keep their knowledge up to date. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

Cybersecurity Breaches and Issues Surrounding Online Threat Protection - Moore, Michelle 2016-12-12

Technology has become deeply integrated into modern society and various activities throughout everyday life. However, this increases the risk of vulnerabilities, such as hacking or system errors, among other online threats. Cybersecurity Breaches and Issues Surrounding Online Threat Protection is an essential reference source for the latest scholarly research on the various types of unauthorized access or damage to electronic data. Featuring extensive coverage across a range of relevant perspectives and topics, such as robotics, cloud computing, and electronic data diffusion, this publication is ideally designed for academicians, researchers, computer engineers, graduate students, and practitioners seeking current research on the

threats that exist in the world of technology.

Architectures and Protocols for Secure Information Technology Infrastructures - Ruiz-Martinez, Antonio 2013-09-30

With the constant stream of emails, social networks, and online bank accounts, technology has become a pervasive part of our everyday lives, making the security of these information systems an essential requirement for both users and service providers. Architectures and Protocols for Secure Information Technology Infrastructures investigates different protocols and architectures that can be used to design, create, and develop security infrastructures by highlighting recent advances, trends, and contributions to the building blocks for solving security issues. This book is essential for researchers, engineers, and professionals interested in exploring recent advances in ICT security.

Software Architecture Patterns for Serverless Systems - John Gilbert 2021-07-30

A professional's guide to solving complex problems while designing modern software Key FeaturesLearn best practices for designing enterprise-grade software systems from a seasoned CTODeeper your understanding of system reliability, maintainability, and scalabilityElevate your skills to a professional level by learning the most effective software design patterns and architectural conceptsBook Description As businesses are undergoing a digital transformation to keep up with competition, it is now more important than ever for IT professionals to design systems to keep up with the rate of change while maintaining stability. This book takes you through the architectural patterns that power enterprise-grade software systems and the key architectural elements that enable change (such as events, autonomous services, and micro frontends), along with showing you how to implement and operate anti-fragile systems. First, you'll divide up a system and define

boundaries so that your teams can work autonomously and accelerate innovation. You'll cover low-level event and data patterns that support the entire architecture, while getting up and running with the different autonomous service design patterns. Next, the book will focus on best practices for security, reliability, testability, observability, and performance. You'll combine all that you've learned and build upon that foundation, exploring the methodologies of continuous experimentation, deployment, and delivery before delving into some final thoughts on how to start making progress. By the end of this book, you'll be able to architect your own event-driven, serverless systems that are ready to adapt and change so that you can deliver value at the pace needed by your business. What you will learnExplore architectural patterns to create anti-fragile systems that thrive with changeFocus on DevOps practices that empower self-sufficient, full-stack teamsBuild enterprise-scale serverless systemsApply microservices principles to the frontendDiscover how SOLID principles apply to software and database architectureCreate event stream processors that power the event sourcing and CQRS patternDeploy a multi-regional system, including regional health checks, latency-based routing, and replicationExplore the Strangler pattern for migrating legacy systemsWho this book is for This book is for software architects who want to learn more about different software design patterns and best practices. This isn't a beginner's manual – you'll need an intermediate level of programming proficiency and software design to get started. You'll get the most out of this software design book if you already know the basics of the cloud, but it isn't a prerequisite.

Moving To The Cloud - Dinkar Sitaram 2011-11-16

Moving to the Cloud provides an in-depth introduction to cloud computing models, cloud platforms, application development paradigms, concepts and technologies. The authors

particularly examine cloud platforms that are in use today. They also describe programming APIs and compare the technologies that underlie them. The basic foundations needed for developing both client-side and cloud-side applications covering compute/storage scaling, data parallelism, virtualization, MapReduce, RIA, SaaS and Mashups are covered. Approaches to address key challenges of a cloud infrastructure, such as scalability, availability, multi-tenancy, security and management are addressed. The book also lays out the key open issues and emerging cloud standards that will drive the continuing evolution of cloud computing. Includes complex case studies of cloud solutions by cloud experts from Yahoo! , Amazon, Microsoft, IBM, Adobe and HP Labs Presents insights and techniques for creating compelling rich client applications that interact with cloud services Demonstrates and distinguishes features of different cloud platforms using simple to complex API programming examples

Real-time Monitoring and Operational Control of Drinking-Water Systems - Vicenç Puig 2017-05-18

This book presents a set of approaches for the real-time monitoring and control of drinking-water networks based on advanced information and communication technologies. It shows the reader how to achieve significant improvements in efficiency in terms of water use, energy consumption, water loss minimization, and water quality guarantees. The methods and approaches presented are illustrated and have been applied using real-life pilot demonstrations based on the drinking-water network in Barcelona, Spain. The proposed approaches and tools cover: • decision-making support for real-time optimal control of water transport networks, explaining how stochastic model predictive control algorithms that take explicit account of uncertainties associated with energy prices and real demand allow the main flow and

pressure actuators—pumping stations and pressure regulation valves— and intermediate storage tanks to be operated to meet demand using the most sustainable types of source and with minimum electricity costs;• decision-making support for monitoring water balance and distribution network quality in real time, implementing fault detection and diagnosis techniques and using information from hundreds of flow, pressure, and water-quality sensors together with hydraulic and quality-parameter-evolution models to detect and locate leaks in the network, possible breaches in water quality, and failures in sensors and/or actuators;• consumer-demand prediction, based on smart metering techniques, producing detailed analyses and forecasts of consumption patterns, providing a customer communications service, and suggesting economic measures intended to promote more efficient use of water at the household level. Researchers and engineers working with drinking-water networks will find this a vital support in overcoming the problems associated with increased population, environmental sensitivities and regulation, aging infrastructures, energy requirements, and limited water sources.

Cloud Computing Service and Deployment Models: Layers and Management - Bento, Al 2012-10-31

"This book presents a collection of diverse perspectives on cloud computing and its vital role in all components of organizations, improving the understanding of cloud computing and tackling related concerns such as change management, security, processing approaches, and much more"--Provided by publisher.

Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing - Velayutham, Sathiyamoorthi 2021-01-29

In today’s market, emerging technologies are continually assisting in common workplace practices as companies and organizations search

for innovative ways to solve modern issues that arise. Prevalent applications including internet of things, big data, and cloud computing all have noteworthy benefits, but issues remain when separately integrating them into the professional practices. Significant research is needed on converging these systems and leveraging each of their advantages in order to find solutions to real-time problems that still exist. Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing is a pivotal reference source that provides vital research on the relation between these technologies and the impact they collectively have in solving real-world challenges. While highlighting topics such as cloud-based analytics, intelligent algorithms, and information security, this publication explores current issues that remain when attempting to implement these systems as well as the specific applications IoT, big data, and cloud computing have in various professional sectors. This book is ideally designed for academicians, researchers, developers, computer scientists, IT professionals, practitioners, scholars, students, and engineers seeking research on the integration of emerging technologies to solve modern societal issues.

Advances in Computer Science for Engineering and Education IV - Zhengbing Hu 2021-07-21

This book comprises high-quality refereed research papers presented at the Fourth International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2021), held in Kyiv, Ukraine, on January 23–24, 2021, organized jointly by the National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”, National Aviation University, and the International Research Association of Modern Education and Computer Science. The topics discussed in the book include state-of-the-art papers in computer science, artificial intelligence, engineering techniques, genetic coding systems, deep

learning with its medical applications, and knowledge representation with its applications in education. It is an excellent source of references for researchers, graduate students, engineers, management practitioners, and undergraduate students interested in computer science and their applications in engineering and education.

Internet-of-Things (IoT) Systems - Dimitrios Serpanos 2017-11-24

This book covers essential topics in the architecture and design of Internet of Things (IoT) systems. The authors provide state-of-the-art information that enables readers to design systems that balance functionality, bandwidth, and power consumption, while providing secure and safe operation in the face of a wide range of threat and fault models. Coverage includes essential topics in system modeling, edge/cloud architectures, and security and safety, including cyberphysical systems and industrial control systems.

Intelligent Systems and Applications - Kohei Arai 2022

This book is a remarkable collection of chapters covering a wide domain of topics related to artificial intelligence and its applications to the real world. The conference attracted a total of 494 submissions from many academic pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer-reviewed process. Of the total submissions, 176 submissions have been selected to be included in these proceedings. It is difficult to imagine how artificial intelligence has become an inseparable part of our life. From mobile phones, smart watches, washing machines to smart homes, smart cars, and smart industries, artificial intelligence has helped to revolutionize the whole globe. As we witness exponential growth of computational intelligence in several directions and use of intelligent systems in everyday applications, this book is an

ideal resource for reporting latest innovations and future of AI. Distinguished researchers have made valuable studies to understand the various bottlenecks existing in different arenas and how they can be overcome with the use of intelligent systems. This book also provides new directions and dimensions of future research work. We hope that readers find the volume interesting and valuable.

500 AWS Interview Questions and Answers - Vamsee Puligadda

Knowledge for Free... Get that job, you aspire for! Want to switch to that high paying job? Or are you already been preparing hard to give interview the next weekend? Do you know how many people get rejected in interviews by preparing only concepts but not focusing on actually which questions will be asked in the interview? Don't be that person this time. This is the most comprehensive AWS (Amazon Web Services) interview questions book that you can ever find out. It contains: 500 most frequently asked and important AWS (Amazon Web Services) interview questions and answers Wide range of questions which cover not only basics in AWS (Amazon Web Services) but also most advanced and complex questions which will help freshers, experienced professionals, senior developers, testers to crack their interviews.

Cloud Computing - Nikos Antonopoulos 2010-07-16

Cloud computing continues to emerge as a subject of substantial industrial and academic interest. Although the meaning and scope of “cloud computing” continues to be debated, the current notion of clouds blurs the distinctions between grid services, web services, and data centers, among other areas. Clouds also bring considerations of lowering the cost for relatively bursty applications to the fore. Cloud Computing: Principles, Systems and Applications is an essential reference/guide that provides thorough and timely examination of the services, interfaces and types of applications that can be

executed on cloud-based systems. The book identifies and highlights state-of-the-art techniques and methods for designing cloud systems, presents mechanisms and schemes for linking clouds to economic activities, and offers balanced coverage of all related technologies that collectively contribute towards the realization of cloud computing. With an emphasis on the conceptual and systemic links between cloud computing and other distributed computing approaches, this text also addresses the practical importance of efficiency, scalability, robustness and security as the four cornerstones of quality of service. Topics and features: explores the relationship of cloud computing to other distributed computing paradigms, namely peer-to-peer, grids, high performance computing and web services; presents the principles, techniques, protocols and algorithms that can be adapted from other distributed computing paradigms to the development of successful clouds; includes a Foreword by Professor Mark Baker of the University of Reading, UK; examines current cloud-practical applications and highlights early deployment experiences; elaborates the economic schemes needed for clouds to become viable business models. This book will serve as a comprehensive reference for researchers and students engaged in cloud computing. Professional system architects, technical managers, and IT consultants will also find this unique text a practical guide to the application and delivery of commercial cloud services. Prof. Nick Antonopoulos is Head of the School of Computing, University of Derby, UK. Dr. Lee Gillam is a Lecturer in the Department of Computing at the University of Surrey, UK.

Computational and Data Grids: Principles, Applications and Design - Preve, Nikolaos 2011-09-30

"This book provide relevant theoretical frameworks covering the latest empirical research findings in the area of grid computing,

with a critical perspective bridging the gap between academia and the latest achievements of the computer industry"--Provided by publisher.

Security and Microservice Architecture on AWS - Gaurav Raje 2021-09-08

Security is usually an afterthought when organizations design microservices for cloud systems. Most companies today are exposed to potential security threats, but their responses are often more reactive than proactive. This leads to unnecessarily complicated systems that are hard to implement and even harder to manage and scale. Author Gaurav Raje shows you how to build highly secure systems on AWS without increasing overhead. Ideal for cloud solution architects and software developers with AWS experience, this practical book starts with a high-level architecture and design discussion, then explains how to implement your solution in the cloud while ensuring that the development and operational experience isn't compromised. By leveraging the AWS Shared Responsibility Model, you'll be able to: Develop a modular architecture using microservices that aims to simplify compliance with various regulations in finance, medicine, and legal services Introduce various AWS-based security controls to help protect your microservices from malicious actors Leverage the modularity of the architecture to independently scale security mechanisms on individual microservices Improve the security posture without compromising the autonomy or efficiency of software development teams

Cloud Technology: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2014-10-31

As the Web grows and expands into ever more remote parts of the world, the availability of resources over the Internet increases exponentially. Making use of this widely prevalent tool, organizations and individuals can share and store knowledge like never before.

Cloud Technology: Concepts, Methodologies, Tools, and Applications investigates the latest research in the ubiquitous Web, exploring the use of applications and software that make use of the Internet□s anytime, anywhere availability. By bringing together research and ideas from across the globe, this publication will be of use to computer engineers, software developers, and end users in business, education, medicine, and more.

Euro-Par 2014: Parallel Processing Workshops - Luís Lopes 2014-12-11

The two volumes LNCS 8805 and 8806 constitute the thoroughly refereed post-conference proceedings of 18 workshops held at the 20th International Conference on Parallel Computing, Euro-Par 2014, in Porto, Portugal, in August 2014. The 100 revised full papers presented were carefully reviewed and selected from 173 submissions. The volumes include papers from the following workshops: APCI&E (First Workshop on Applications of Parallel Computation in Industry and Engineering - BigDataCloud (Third Workshop on Big Data Management in Clouds) - DIHC (Second Workshop on Dependability and Interoperability in Heterogeneous Clouds) - FedICI (Second Workshop on Federative and Interoperable Cloud Infrastructures) - Hetero Par (12th International Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Platforms) - HiBB (5th Workshop on High Performance Bioinformatics and Biomedicine) - LSDVE (Second Workshop on Large Scale Distributed Virtual Environments on Clouds and P2P) - MuCoCoS (7th International Workshop on Multi-/Many-core Computing Systems) - OMHI (Third Workshop on On-chip Memory Hierarchies and Interconnects) - PADAPS (Second Workshop on Parallel and Distributed Agent-Based Simulations) - PROPER (7th Workshop on Productivity and Performance) - Resilience (7th Workshop on Resiliency in High Performance Computing with Clusters, Clouds,

and Grids) - REPPAR (First International Workshop on Reproducibility in Parallel Computing) - ROME (Second Workshop on Runtime and Operating Systems for the Many Core Era) - SPPEXA (Workshop on Software for Exascale Computing) - TASUS (First Workshop on Techniques and Applications for Sustainable Ultrascale Computing Systems) - UCHPC (7th Workshop on Un Conventional High Performance Computing) and VHPC (9th Workshop on Virtualization in High-Performance Cloud Computing.

Web Information Systems Engineering – WISE 2019 - Reynold Cheng 2019-11-14
This book constitutes the proceedings of the 20th International Conference on Web Information Systems Engineering, WISE 2019, held in Hong Kong, China, in November 2019. Due to the problems/protests in Hong Kong, WISE 2019 was postponed from November 26-30, 2019 until January 19-22, 2020. The 50 full papers presented were carefully reviewed and selected from 211 submissions. The papers are organized in the following topical sections: blockchain and crowdsourcing; machine learning; deep learning; recommender systems, data mining; web-based applications; entity linkage and disambiguation; graph learning; knowledge graphs; graph mining; and text mining.

Latest Amazon AWS Certified Developer Associate DVA-C01 Exam Questions and Answers - UPTODATE EXAMS
Exam Name : Amazon AWS Certified Developer Associate Exam Code : DVA-C01 Edition : Latest Verison (100% valid and stable) Number of Questions : 402 Questions with Answer

Encyclopedia of Bioinformatics and Computational Biology - 2018-08-21
Encyclopedia of Bioinformatics and Computational Biology: ABC of Bioinformatics combines elements of computer science, information technology, mathematics, statistics and biotechnology, providing the methodology

and in silico solutions to mine biological data and processes. The book covers Theory, Topics and Applications, with a special focus on Integrative –omics and Systems Biology. The theoretical, methodological underpinnings of BCB, including phylogeny are covered, as are more current areas of focus, such as translational bioinformatics, cheminformatics, and environmental informatics. Finally, Applications provide guidance for commonly asked questions. This major reference work spans basic and cutting-edge methodologies authored by leaders in the field, providing an invaluable resource for students, scientists, professionals in research institutes, and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries. Brings together information from computer science, information technology, mathematics, statistics and biotechnology Written and reviewed by leading experts in the field, providing a unique and authoritative resource Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications Includes interactive images, multimedia tools and crosslinking to further resources and databases

Software Engineering Approaches for Offshore and Outsourced Development - Olly Gotel 2009-07-01

SEAFOOD 2009: Enabling Global Partnerships to Deliver on Business Needs Companies have been outsourcing areas of software development work for many years, either because of the engineering challenges or because the outsourced aspect is not central to their core business. A profound transformation has been a?ecting this model over recent years: a massive transfer of development - tivities from the USA and Europe to a skilled labor force in service-providing countries. This transformation has been driven by the demands of a global bu- ness climate seeking to increase the value delivery of IT investment. However, the ability to realize

this value can prove problematic in practice. Of particular concern are the hidden costs of globally distributed models of working, such as understanding and communicating the true business needs across organizational and cultural boundaries. To address such issues, o?shore outsourcing requires di?erent support from in-housedevelopmentandthismeansadaptingfamiliar techniques,processesand tools to this setting, as well as perhaps creating innovative new ones. Coupled with this industry transformation there is hence a pressing need to re-examine thosesoftwareengineeringapproachesthateither facilitate orimpede this model of working. With an inevitable focus on the economy in 2009, business decisions regarding the sourcing of software development projects will come under close scrutiny. It will become increasingly critical to design global partnerships that both clarify cost/bene?ts and enable delivery on business needs.

Serverless ETL and Analytics with AWS Glue - Vishal Pathak 2022-08-30

Build efficient data lakes that can scale to virtually unlimited size using AWS Glue Key Features Learn to work with AWS Glue to overcome typical implementation challenges in data lakes Create and manage serverless ETL pipelines that can scale to manage big data Written by AWS Glue community members, this practical guide shows you how to implement AWS Glue in no time Book Description Organizations these days have gravitated toward services such as AWS Glue that undertake undifferentiated heavy lifting and provide serverless Spark, enabling you to create and manage data lakes in a serverless fashion. This guide shows you how AWS Glue can be used to solve real-world problems along with helping you learn about data processing, data integration, and building data lakes. Beginning with AWS Glue basics, this book teaches you how to perform various aspects of data analysis

such as ad hoc queries, data visualization, and real-time analysis using this service. It also provides a walk-through of CI/CD for AWS Glue and how to shift left on quality using automated regression tests. You'll find out how data security aspects such as access control, encryption, auditing, and networking are implemented, as well as getting to grips with useful techniques such as picking the right file format, compression, partitioning, and bucketing. As you advance, you'll discover AWS Glue features such as crawlers, Lake Formation, governed tables, lineage, DataBrew, Glue Studio, and custom connectors. The concluding chapters help you to understand various performance tuning, troubleshooting, and monitoring options. By the end of this AWS book, you'll be able to create, manage, troubleshoot, and deploy ETL pipelines using AWS Glue. What you will learn Apply various AWS Glue features to manage and create data lakes Use Glue DataBrew and Glue Studio for data preparation Optimize data layout in cloud storage to accelerate analytics workloads Manage metadata including database, table, and schema definitions Secure your data during access control, encryption, auditing, and networking Monitor AWS Glue jobs to detect delays and loss of data Integrate Spark ML and SageMaker with AWS Glue to create machine learning models Who this book is for This book is for ETL developers, data engineers, and data analysts who want to understand how AWS Glue can help you solve your business problems. Basic knowledge of AWS data services is assumed.

Multidisciplinary Approaches to Service-Oriented Engineering - Khosrow-Pour, D.B.A., Mehdi 2018-06-01

The service industry is continually improving, forcing service-oriented engineering to improve alongside it. In a digitalized world, technology within the service industry has adapted to support interactions between users and organizations. By identifying key problems and

features, service providers can help increase facilitator profitability and user satisfaction. Multidisciplinary Approaches to Service-Oriented Engineering is a well-rounded collection of research that examines methods of providing optimal system design for service systems and applications engineering. While exploring topics such as cloud ecosystems, interface localization, and requirement prioritization, this publication provides information about the approaches and development of software architectures to improve service quality. This book is a vital resource for engineers, theoreticians, educators, developers, IT consultants, researchers, practitioners, and professionals.

Security and Privacy in Communication Networks - Robert Deng 2017-06-13

This book constitutes the refereed conference proceedings of the 12th International Conference on Security and Privacy in Communications Networks, SecureComm 2016, held in Guangzhou, China, in October 2016. The 32 revised full papers and 18 poster papers were carefully reviewed and selected from 137 submissions. The papers are organized thematically starting with mobile and network security, followed by applied cryptography, web security and privacy, system security, hardware security. The volume also includes papers from the ATCS workshop and the poster session.

Programming Amazon Web Services - James Murty 2008-03-25

A guide to Amazon Web services provides code samples and information on using APIs to create applications.

Distributed and Cloud Computing - Kai Hwang 2013-12-18

Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking,

and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

AWS Certified Security Study Guide - Marcello Zillo Neto 2021-01-27

Get prepared for the AWS Certified Security Specialty certification with this excellent resource By earning the AWS Certified Security

Specialty certification, IT professionals can gain valuable recognition as cloud security experts. The AWS Certified Security Study Guide: Specialty (SCS-C01) Exam helps cloud security practitioners prepare for success on the certification exam. It's also an excellent reference for professionals, covering security best practices and the implementation of security features for clients or employers. Architects and engineers with knowledge of cloud computing architectures will find significant value in this book, which offers guidance on primary security threats and defense principles. Amazon Web Services security controls and tools are explained through real-world scenarios. These examples demonstrate how professionals can design, build, and operate secure cloud environments that run modern applications. The study guide serves as a primary source for those who are ready to apply their skills and seek certification. It addresses how cybersecurity can be improved using the AWS cloud and its native security services. Readers will benefit from detailed coverage of AWS Certified Security Specialty Exam topics. Covers all AWS Certified Security Specialty exam topics Explains AWS cybersecurity techniques and incident response Covers logging and monitoring using the Amazon cloud Examines infrastructure security Describes access management and data protection With a single study resource, you can learn how to enhance security through the automation, troubleshooting, and development integration capabilities available with cloud computing. You will also discover services and tools to develop security plans that work in sync with cloud adoption.

Data Intensive Storage Services for Cloud Environments - Kyriazis, Dimosthenis 2013-04-30

With the evolution of digitized data, our society has become dependent on services to extract valuable information and enhance decision

making by individuals, businesses, and government in all aspects of life. Therefore, emerging cloud-based infrastructures for storage have been widely thought of as the next generation solution for the reliance on data increases. Data Intensive Storage Services for Cloud Environments provides an overview of the current and potential approaches towards data storage services and its relationship to cloud environments. This reference source brings together research on storage technologies in cloud environments and various disciplines useful for both professionals and researchers.

Virtual and Networked Organizations, Emergent Technologies and Tools - Goran D. Putnik 2012-07-25

This book constitutes the thoroughly refereed post-conference proceedings of the First International Conference on Virtual and Networked Organizations, Emergent Technologies, and Tools, ViNOrg 2011, held in Ofir, Portugal, in July 2011. The 35 revised full papers presentedwere carefully reviewed and selected from over 60 initial submissions. The papers cover a wide range of topics, such as ubiquitous computing and organizations, cloud computing and architectures, grid computing, human-computer interfaces, serious games, data mining, Web services, cognitive systems, social networks and other emergent IT/IS approaches in various function domains, such as decision support systems, planning, design, control, negotiation, marketing, management and many other, in the context of virtual and networked enterprises and organizations.

CSO - 2007-02

The business to business trade publication for information and physical Security professionals.

Computer Engineering: Concepts, Methodologies, Tools and Applications - Management Association, Information Resources 2011-12-31

"This reference is a broad, multi-volume collection of the best recent works published

under the umbrella of computer engineering, including perspectives on the fundamental aspects, tools and technologies, methods and design, applications, managerial impact, social/behavioral perspectives, critical issues, and emerging trends in the field"--Provided by publisher.

Latest Amazon AWS DevOps Engineer - Professional DOP-C01 Exam Questions and Answers - UPTODATE EXAMS

Exam Name : Amazon AWS DevOps Engineer - Professional Exam Code : DOP-C01 Edition : Latest Verison (100% valid and stable) Number of Questions : 260 Questions with Answer

Threat Hunting in the Cloud - Chris Peiris 2021-08-31

Implement a vendor-neutral and multi-cloud cybersecurity and risk mitigation framework with advice from seasoned threat hunting pros In Threat Hunting in the Cloud: Defending AWS, Azure and Other Cloud Platforms Against Cyberattacks, celebrated cybersecurity professionals and authors Chris Peiris, Binil Pillai, and Abbas Kudrati leverage their decades of experience building large scale cyber fusion centers to deliver the ideal threat hunting resource for both business and technical audiences. You'll find insightful analyses of cloud platform security tools and, using the industry leading MITRE ATT&CK framework, discussions of the most common threat vectors. You'll discover how to build a side-by-side cybersecurity fusion center on both Microsoft Azure and Amazon Web Services and deliver a multi-cloud strategy for enterprise customers. And you will find out how to create a vendor-neutral environment with rapid disaster recovery capability for maximum risk mitigation. With this book you'll learn: Key business and technical drivers of cybersecurity threat hunting frameworks in today's technological environment Metrics available to assess threat hunting effectiveness regardless of an organization's size How threat hunting works

with vendor-specific single cloud security offerings and on multi-cloud implementations A detailed analysis of key threat vectors such as email phishing, ransomware and nation state attacks Comprehensive AWS and Azure "how to" solutions through the lens of MITRE Threat Hunting Framework Tactics, Techniques and Procedures (TTPs) Azure and AWS risk mitigation strategies to combat key TTPs such as privilege escalation, credential theft, lateral movement, defend against command & control systems, and prevent data exfiltration Tools available on both the Azure and AWS cloud platforms which provide automated responses to attacks, and orchestrate preventative measures and recovery strategies Many critical components for successful adoption of multi-cloud threat hunting framework such as Threat Hunting Maturity Model, Zero Trust Computing, Human Elements of Threat Hunting, Integration of Threat Hunting with Security Operation Centers (SOCs) and Cyber Fusion Centers The Future of Threat Hunting with the advances in Artificial Intelligence, Machine Learning, Quantum Computing and the proliferation of IoT devices. Perfect for technical executives (i.e., CTO, CISO), technical managers, architects, system admins and consultants with hands-on responsibility for cloud platforms, Threat Hunting in the Cloud is also an indispensable guide for business executives (i.e., CFO, COO CEO, board members) and managers who need to understand their organization's cybersecurity risk framework and mitigation strategy.

Cloud Security: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2019-04-01 Cloud computing has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available. As with any new technology, security issues continue to be a concern, and developing effective methods to protect sensitive information and data on the cloud is imperative.

Cloud Security: Concepts, Methodologies, Tools, and Applications explores the difficulties and challenges of securing user data and information on cloud platforms. It also examines the current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting a range of topics such as cloud forensics, information privacy, and standardization and security in the cloud, this multi-volume book is ideally designed for IT specialists, web designers, computer engineers, software developers, academicians, researchers, and graduate-level students interested in cloud computing concepts and security.

Algorithms and Architectures for Parallel Processing - Guojun Wang 2015-11-16

This four volume set LNCS 9528, 9529, 9530 and 9531 constitutes the refereed proceedings of the 15th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2015, held in Zhangjiajie, China, in November 2015. The 219 revised full papers presented together with 77 workshop papers in these four volumes were carefully reviewed and selected from 807 submissions (602 full papers and 205 workshop papers). The first volume comprises the following topics: parallel and distributed architectures; distributed and network-based computing and internet of things and cyber-physical-social computing. The second volume comprises topics such as big data and its applications and parallel and distributed algorithms. The topics of the third volume are: applications of parallel and distributed computing and service dependability and security in distributed and parallel systems. The covered topics of the fourth volume are: software systems and programming models and performance modeling and evaluation.

Cloud Computing - Christian Baun 2011-07-14

Cloud computing is a buzz-word in today’s information technology (IT) that nobody can escape. But what is really behind it? There are

many interpretations of this term, but no standardized or even uniform definition. Instead, as a result of the multi-faceted viewpoints and the diverse interests expressed by the various stakeholders, cloud computing is perceived as a rather fuzzy concept. With this book, the authors deliver an overview of cloud computing architecture, services, and applications. Their aim is to bring readers up to date on this technology and thus to provide a common basis for discussion, new research, and novel application scenarios. They first introduce the foundation of cloud computing with its basic technologies, such as virtualization and Web services. After that they discuss the cloud architecture and its service modules. The following chapters then cover selected commercial cloud offerings (including Amazon Web Services and Google App Engine) and management tools, and present current related open-source developments (including Hadoop, Eucalyptus, and Open CirrusTM). Next, economic considerations (cost and business models) are discussed, and an evaluation of the cloud market situation is given. Finally, the appendix contains some practical examples of how to use cloud resources or cloud applications, and a glossary provides concise definitions of key terms. The authors' presentation does not require in-depth technical knowledge. It is equally intended as an introduction for students in software engineering, web technologies, or business development, for professional software developers or system architects, and for future-oriented decision-makers like top executives and managers.