

Video Processing In The Cloud

The Internet of Things in the Cloud
Computation and Storage in the Cloud
Classroom in the Cloud
Software Testing in the Cloud: Perspectives on an Emerging Discipline
Introduction to Machine Learning in the Cloud with Python
Security in the Private Cloud
Genomics in the Cloud
Genomics in the Azure Cloud
Enterprise Management Strategies in the Era of Cloud Computing
Migrating to the Cloud
Regulating the Cloud
Trusting Records in the Cloud
CLOUD GUARDIANS: AI-DRIVEN CYBERSECURITY IN THE CLOUD ERA
The Cloud Journey: From Concept to Global Adoption
Security and Privacy - Silver Linings in the Cloud
Father's Motto, Or, The Cloud with a Silver Lining, and Other Stories. A Book for Boys and Their Sisters. [With Illustrations.]
Privacy and Security Challenges in Cloud Computing
Cloud Native Spring in Action
Security for Cloud Storage Systems
Optimized Cloud Resource Management and Scheduling
Honbo Zhou Dong Yuan Jared Covili Tilley, Scott Pramod Gupta John R. Vacca Geraldine A. Van der Auwera Colby T. Ford Rao, N. Raghavendra Tom Laszewski Christopher S. Yoo Luciana Duranti Amit Goswami Dr. Monisha Awasthi Kai Rannenber Father T. Ananth Kumar Thomas Vitale Kan Yang Wenhong Dr. Tian

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Cloud CLOUD GUARDIANS: AI-DRIVEN CYBERSECURITY IN THE CLOUD ERA

The Cloud Journey: From Concept to Global Adoption Security and Privacy - Silver Linings in the Cloud Father's Motto, Or, The Cloud with a Silver Lining, and Other Stories. A Book for Boys and Their Sisters. [With Illustrations.] Privacy and Security Challenges in Cloud Computing Cloud Native Spring in Action Security for Cloud Storage Systems Optimized Cloud Resource Management and Scheduling *Honbo Zhou Dong Yuan Jared Covili Tilley, Scott Pramod Gupta John R. Vacca Geraldine A. Van der Auwera Colby T. Ford Rao, N. Raghavendra Tom Laszewski Christopher S. Yoo Luciana Duranti Amit Goswami Dr. Monisha Awasthi Kai Rannenber Father T. Ananth Kumar Thomas Vitale Kan Yang Wenhong Dr. Tian*

although the internet of things iot is a vast and dynamic territory that is evolving rapidly there has been a need for a book that offers a holistic view of the technologies and applications of the entire iot spectrum filling this void the internet of things in the cloud a middleware perspective provides a comprehensive introduction to the iot and its development worldwide it gives you a panoramic view of the iot landscape focusing on the overall technological architecture and design of a tentatively unified iot framework underpinned by cloud computing from a middleware perspective organized into three sections it describes the many facets of internet of things including the four pillars of iot and the three layer value chain of iot focuses on middleware the glue and building blocks of a holistic iot system on every layer of the architecture explores cloud computing and iot as well as their synergy based on the common background of distributed processing the book is based on the author s two previous bestselling books in chinese on iot and cloud computing and more than two decades of hands on software middleware programming and architecting

experience at organizations such as the oak ridge national laboratory ibm bea systems and silicon valley startup doubletivist tapping into this wealth of knowledge the book categorizes the many facets of the iot and proposes a number of paradigms and classifications about internet of things mass and niche markets and technologies

computation and storage in the cloud is the first comprehensive and systematic work investigating the issue of computation and storage trade off in the cloud in order to reduce the overall application cost scientific applications are usually computation and data intensive where complex computation tasks take a long time for execution and the generated datasets are often terabytes or petabytes in size storing valuable generated application datasets can save their regeneration cost when they are reused not to mention the waiting time caused by regeneration however the large size of the scientific datasets is a big challenge for their storage by proposing innovative concepts theorems and algorithms this book will help bring the cost down dramatically for both cloud users and service providers to run computation and data intensive scientific applications in the cloud covers cost models and benchmarking that explain the necessary tradeoffs for both cloud providers and users describes several novel strategies for storing application datasets in the cloud includes real world case studies of scientific research applications covers cost models and benchmarking that explain the necessary tradeoffs for both cloud providers and users describes several novel strategies for storing application datasets in the cloud includes real world case studies of scientific research applications

the sky s not the limit anymore get your head in the cloud making the most of the digital age in education just got easier with cloud computing students can connect with teachers educators can connect with colleagues and opportunities for meaningful collaboration can

grow exponentially in this easy to use primer the author of bestseller going google teams up with twitter s the nerdy teacher to demonstrate what cloud based instruction can mean for teachers and students and how it can work for your school the book includes practical tools for integrating cloud computing into the curriculum student and teacher testimonies detailing examples of cloud based instruction in action chapters on storing communicating sharing and creating strategies for ensuring safety and security for students and information this book provides direct quotes from teachers and students about amazing cloud based applications you ll find innovative tools and practices step by step instructions for implementation and an array of tools for all grade levels and subjects the classroom may now be in the cloud but this book will be at my side anytime i need tech tools that are creative easy to use and fun for teaching and learning mark barnes author of teaching the istudent and 5 skills for the global learner it s more important today than ever before for educators to look beyond the walls of classrooms and connect with other colleagues in their buildings and across the globe this book will equip all educators with the tools necessary to find the best tools to enhance and improve their teaching practices steven anderson author the relevant educator and content curation web20classroom

in recent years cloud computing has gained a significant amount of attention by providing more flexible ways to store applications remotely with software testing continuing to be an important part of the software engineering life cycle the emergence of software testing in the cloud has the potential to change the way software testing is performed software testing in the cloud perspectives on an emerging discipline is a comprehensive collection of research by leading experts in the field providing an overview of cloud computing and current issues in software testing and system migration deserving the attention of researchers practitioners

and managers this book aims to raise awareness about this new field of study

this book provides an introduction to machine learning and cloud computing both from a conceptual level along with their usage with underlying infrastructure the authors emphasize fundamentals and best practices for using ai and ml in a dynamic infrastructure with cloud computing and high security preparing readers to select and make use of appropriate techniques important topics are demonstrated using real applications and case studies

this comprehensive handbook serves as a professional reference and practitioner s guide to today s most complete and concise view of private cloud security it explores practical solutions to a wide range of private cloud computing security issues the knowledge imparted will enable readers to determine whether the private cloud security solution is appropriate for their organization from a business and technical perspective to select the appropriate cloud security model and to plan and implement a cloud security adoption and migration strategy

data in the genomics field is booming in just a few years organizations such as the national institutes of health nih will host 50 petabytesâ or over 50 million gigabytesâ of genomic data and theyâ 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 oâ connor of the uc santa cruz genomics institute guide you through the process youâ 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

this practical guide bridges the gap between general cloud computing architecture in microsoft azure and scientific computing for bioinformatics and genomics you ll get a solid understanding of the architecture patterns and services that are offered in azure and how they might be used in your bioinformatics practice you ll get code examples that you can reuse for your specific needs and you ll get plenty of concrete examples to illustrate how a given service is used in a bioinformatics context you ll also get valuable advice on how to use enterprise platform services to easily scale your bioinformatics workloads organize query and analyze genomic data at scale build a genomics data lake and accompanying data warehouse use azure machine learning to scale your model training track model performance and deploy winning models orchestrate and automate processing pipelines using azure data factory and databricks cloudify your organization s existing bioinformatics pipelines by moving your workflows to azure high performance compute services and more

recent advances in internet architecture have led to the advent and subsequent explosion of cloud computing technologies providing businesses with a powerful toolbox of collaborative digital resources these technologies have fostered a more flexible decentralized approach to it infrastructure enabling businesses to operate in a more agile fashion and on a globalized scale enterprise management strategies in the era of cloud computing seeks to explore the

possibilities of business in the cloud targeting an audience of research scholars students software developers and business professionals this premier reference source provides a cutting edge look at the exciting and multifaceted relationships between cloud computing software virtualization collaborative technology and business infrastructure in the 21st century

migrating to the cloud oracle client server modernization is a reference guide for migrating client server applications to the oracle cloud organized into 14 chapters the book offers tips on planning determining effort and budget designing the oracle cloud infrastructure implementing the migration and moving the oracle cloud environment into production aside from oracle application and database cloud offerings the book looks at various tools and technologies that can facilitate migration to the cloud it includes useful code snippets and step by step instructions in database migration along with four case studies that highlight service enablement of dos based applications sybase to oracle powerbuilder to apex and forms to java ee finally it considers current challenges and future trends in cloud computing and client server migration this book will be useful to it professionals such as developers architects database administrators it project managers and executives in developing migration strategies and best practices as well as finding appropriate solutions focuses on oracle architecture middleware and cots business applications explains the tools and technologies necessary for your legacy migration gives useful information about various strategies migration methodologies and efficient plans for executing migration projects

the emergence of the cloud as infrastructure experts from a range of disciplines consider policy issues including reliability privacy consumer protection national security and copyright the emergence of cloud computing marks the moment when computing has

become materially and symbolically infrastructure a sociotechnical system that is ubiquitous essential and foundational increasingly integral to the operation of other critical infrastructures such as transportation energy and finance it functions in effect as a meta infrastructure as such the cloud raises a variety of policy and governance issues among them market regulation fairness access reliability privacy national security and copyright in this book experts from a range of disciplines offer their perspectives on these and other concerns the contributors consider such topics as the economic implications of the cloud s shifting of computing resources from ownership to rental the capacity of regulation to promote reliability while preserving innovation the applicability of contract theory to enforce service guarantees the differing approaches to privacy taken by united states and the european union in the post snowden era the delocalization or geographic dispersal of the archive and the cloud based virtual representations of our body in electronic health data contributors nicholas bauch jean fran ois blanchette marjory blumenthal sandra braman jonathan cave lothar determann luciana duranti svitlana kobzar william lehr david nimmer andrea renda neil robinson helen rebecca schindler joe weinman christopher s yoo

published in association with the society of american archivists trusting records in the cloud presents key findings of inter pares trust an international research project that has investigated issues of trust in and trustworthiness of records and data online with respect to privacy accessibility portability metadata and ownership the project has produced theoretical and methodological frameworks for the development of local national and international policies procedures regulations standards and legislation to ensure public trust grounded on evidence of good governance strong digital economy and persistent digital memory topics include risks and remedies to the contracts the public must enter into with service providers

implementing retention and disposition schedules in the cloud understanding the role of metadata in cloud services for chain of custody rethinking issues of appraisal arrangement and description preservation as a series of services implementable by a variety of preservation actors information governance risk management and authentication practices and technologies this book is essential reading for records and archives managers information professionals and organizations that are using or intend to use the cloud for the creation management and preservation of their information records and archives students and educators individuals working in the academic government and private sectors and members of the public concerned about their personal information in the cloud

the cloud journey from concept to global adoption is a comprehensive guide that explores the evolution implementation and worldwide acceptance of cloud computing edited by distinguished academicians dr monisha awasthi prof dr sonal sharma and nitin sharma this book delves into cutting edge developments in cloud technology cybersecurity edge computing and data driven digital transformation it is an essential read for researchers it professionals and students seeking a deep understanding of the cloud ecosystem and its global impact

these proceedings contain the papers of ifip sec 2010 it was a special honour and privilege to chair the program committee and prepare the proceedings for this conference which is the 25th in a series of well established international conferences on security and privacy organized annually by technical committee 11 of ifip moreover in 2010 it is part of the ifip world computer congress 2010 celebrating both the golden jubilee of ifip founded in 1960 and the silver jubilee of the sec conference in the exciting city of brisbane australia

during september 20 23 the call for papers went out with the challenging motto of security privacy silver linings in the cloud building a bridge between the long standing issues of security and privacy and the most recent developments in information and communication technology it attracted 102 submissions all of them were evaluated on the basis of their significance novelty and technical quality by at least five member of the program committee the program committee meeting was held electronically over a period of a week of the papers submitted 25 were selected for presentation at the conference the acceptance rate was therefore as low as 24.5 making sec 2010 a highly competitive forum one of those 25 submissions could unfortunately not be included in the proceedings as none of its authors registered in time to present the paper at the conference

this reference text discusses various security techniques and challenges for cloud data protection from both software and hardware aspects the text provides readers with an overview of cloud computing beginning with historical perspectives on mainframe computers and early networking protocols moving to current issues such as security of hardware and networks performance evolving iot areas edge computing etc it also deals with threat detection and incident response in cloud security it covers important topics including operational security agitations in cloud computing cyber artificial intelligence ai platform for cloud security and security concerns of virtualization in cloud computing the book will serve as a useful resource for graduate students and professionals in the fields of electrical engineering electronics engineering computer science and information technology

build and deliver production grade cloud native apps with spring framework and kubernetes in cloud native spring in action you ll learn cloud native best practices and design patterns build and test cloud native apps with spring boot and spring cloud handle security resilience

and scalability in imperative and reactive applications configure deploy and observe applications on kubernetes continuous delivery and gitops to streamline your software lifecycle cloud native spring in action is a practical guide to building applications that are designed for cloud environments you ll learn effective spring and kubernetes cloud development techniques that you can immediately apply to enterprise grade applications follow a detailed and complete cloud native system from first concept right through to production and deployment learning best practices design patterns and little known tips and tricks for pain free cloud native development including coverage of security continuous delivery and configuration this hands on guide is the perfect primer for navigating the increasingly complex cloud landscape about the technology do you want to learn how to build scalable resilient and observable spring applications that take full advantage of the cloud computing model if so cloud native spring in action is the book for you it will teach you the essential techniques and practices you need to build efficient spring boot applications ready for production in the cloud about the book in cloud native spring in action you ll learn how to containerize your spring boot applications with cloud native buildpacks and deploy them on kubernetes this practical guide delivers unique insights into hosting microservices serverless applications and other modern architectures on cloud platforms you ll learn how to use spring based methodologies practices and patterns that you won t find anywhere else what s inside implement cloud native patterns with spring handle security resilience and scalability build and test imperative and reactive applications configuration and observability on kubernetes adopt continuous delivery and gitops about the reader for intermediate java developers about the author thomas vitale is a software engineer open source contributor and international conference speaker table of contents part 1 cloud native fundamentals 1 introduction to cloud native 2 cloud native patterns and technologies part 2

cloud native development 3 getting started with cloud native development 4 externalized configuration management 5 persisting and managing data in the cloud 6 containerizing spring boot 7 kubernetes fundamentals for spring boot part 3 cloud native distributed systems 8 reactive spring resilience and scalability 9 api gateway and circuit breakers 10 event driven applications and functions 11 security authentication and spa 12 security authorization and auditing

cloud storage is an important service of cloud computing which offers service for data owners to host their data in the cloud this new paradigm of data hosting and data access services introduces two major security concerns the first is the protection of data integrity data owners may not fully trust the cloud server and worry that data stored in the cloud could be corrupted or even removed the second is data access control data owners may worry that some dishonest servers provide data access to users that are not permitted for profit gain and thus they can no longer rely on the servers for access control to protect the data integrity in the cloud an efficient and secure dynamic auditing protocol is introduced which can support dynamic auditing and batch auditing to ensure the data security in the cloud two efficient and secure data access control schemes are introduced in this brief abac for single authority systems and dac macs for multi authority systems while ciphertext policy attribute based encryption cp abe is a promising technique for access control of encrypted data the existing schemes cannot be directly applied to data access control for cloud storage systems because of the attribute revocation problem to solve the attribute revocation problem new revocable cp abe methods are proposed in both abac and dac macs

optimized cloud resource management and scheduling identifies research directions and technologies that will facilitate efficient management and scheduling of computing resources

in cloud data centers supporting scientific industrial business and consumer applications it serves as a valuable reference for systems architects practitioners developers researchers and graduate level students explains how to optimally model and schedule computing resources in cloud computing provides in depth quality analysis of different load balance and energy efficient scheduling algorithms for cloud data centers and hadoop clusters introduces real world applications including business scientific and related case studies discusses different cloud platforms with real test bed and simulation tools

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