The Cloud Security Ecosystem

The Cloud Security EcosystemThe Cloud Security EcosystemCloud Security Handbook for ArchitectsPractical Cloud SecurityCloud SecurityFuzzy Systems and Data Mining VIAI-Powered Cybersecurity: The Next Line of DefenseMobile and Wireless Technologies 2017Cybersecurity with AWSSecure Communication in Internet of ThingsICT Infrastructure and ComputingCloud Computing SecurityThe CISO 3.0Cloud SecurityCCSK Certificate of Cloud Security Knowledge All-in-One Exam GuideResource Material SeriesMastering AWS SecurityPrivacy and Security for Cloud ComputingSecuring The Cloud EcosystemAWS All-in-one Security Guide Raymond Choo Ryan Ko Ashish Mishra Melvin B. Greer, Jr. Brij B. Gupta Antonio J. Tallón-Ballesteros Dr.S.Venkatasubramanian Kuinam J. Kim Syed Rehan T. Kavitha Milan Tuba John R. Vacca Walt Powell Graham Thompson Albert Anthony Siani Pearson Muhammed Olanrewaju Adrin Mukherjee

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drawing upon the expertise of world renowned researchers and experts the cloud security ecosystem comprehensively discusses a range of cloud security topics from multi disciplinary and international perspectives aligning technical security implementations with the most recent developments in business legal and international environments the book holistically discusses key research and policy advances in cloud security putting technical and management issues together with an in depth treaties on a multi disciplinary and international subject the book features contributions from key thought leaders and top researchers in the technical legal and business and management aspects of cloud security the authors present the leading edge of cloud security research covering the relationships between differing disciplines and discussing implementation and legal challenges in planning executing and using cloud security presents the most current and leading edge research on cloud security from a multi disciplinary standpoint featuring a panel of top experts in the field focuses on the technical legal and business management issues involved in implementing effective cloud security including case examples covers key technical topics including cloud trust protocols cryptographic deployment and key management mobile devices and byod security management auditability and accountability emergency and incident response as well as cloud forensics includes coverage of management and legal issues such as cloud data governance mitigation and liability of international cloud deployment legal boundaries risk management cloud information security management plans economics of cloud security and standardization efforts

a comprehensive guide to secure your future on cloud key features learn traditional security concepts in the cloud and compare data asset management with on premises understand data asset management in the cloud and on premises learn about adopting a devsecops strategy for scalability and flexibility of cloud infrastructure choose the right security solutions and design and implement native cloud controls description cloud platforms face unique security issues and opportunities because of their evolving designs and api driven automation we will learn cloud specific strategies for securing platforms such as aws microsoft azure google cloud platform oracle cloud infrastructure and others the book will help you implement data asset management identity and access management network security vulnerability management incident response and compliance in your cloud environment this

book helps cybersecurity teams strengthen their security posture by mitigating cyber risk when targets shift to the cloud the book will assist you in identifying security issues and show you how to achieve best in class cloud security it also includes new cybersecurity best practices for daily weekly and monthly processes that you can combine with your other daily it and security operations to meet nist criteria this book teaches how to leverage cloud computing by addressing the shared responsibility paradigm required to meet pci dss iso 27001 2 and other standards it will help you choose the right cloud security stack for your ecosystem moving forward we will discuss the architecture and framework building blocks of native cloud security controls adoption of required security compliance and the right culture to adopt this new paradigm shift in the ecosystem towards the end we will talk about the maturity path of cloud security along with recommendations and best practices relating to some real life experiences what will you learn understand the critical role of identity and access management iam in cloud environments address different types of security vulnerabilities in the cloud develop and apply effective incident response strategies for detecting responding to and recovering from security incidents establish a robust and secure security system by selecting appropriate security solutions for your cloud ecosystem ensure compliance with relevant regulations and requirements throughout your cloud journey explore container technologies and microservices design in the context of cloud security who is this book for the primary audience for this book will be the people who are directly or indirectly responsible for the cybersecurity and cloud security of the organization this includes consultants advisors influencers and those in decision making roles who are focused on strengthening the cloud security of the organization this book will also benefit the supporting staff operations and implementation teams as it will help them understand and enlighten the real picture of cloud security the right audience includes but is not limited to chief information officer cio chief information security officer ciso chief technology officer cto chief risk officer cro cloud architect cloud security architect and security practice team table of contents section i overview and need to transform to cloud landscape 1 evolution of cloud computing and its impact on security 2 understanding the core principles of cloud security and its importance 3 cloud landscape assessment and choosing the solution for your enterprise section ii building blocks of cloud security framework and adoption path 4 cloud security architecture and implementation framework 5 native cloud security controls and building blocks 6 examine regulatory compliance and

adoption path for cloud 7 creating and enforcing effective security policies section iii maturity path 8 leveraging cloud based security solutions for security as a service 9 cloud security recommendations and best practices

melvin greer and kevin jackson have assembled a comprehensive guide to industry specific cybersecurity threats and provide a detailed risk management framework required to mitigate business risk associated with the adoption of cloud computing this book can serve multiple purposes not the least of which is documenting the breadth and severity of the challenges that today s enterprises face and the breadth of programmatic elements required to address these challenges this has become a boardroom issue executives must not only exploit the potential of information technologies but manage their potential risks key features provides a cross industry view of contemporary cloud computing security challenges solutions and lessons learned offers clear guidance for the development and execution of industry specific cloud computing business and cybersecurity strategies provides insight into the interaction and cross dependencies between industry business models and industry specific cloud computing security requirements

cloud computing is an indispensable part of the modern information and communication technology ict systems cloud computing services have proven to be of significant importance and promote quickly deployable and scalable it solutions with reduced infrastructure costs however utilization of cloud also raises concerns such as security privacy latency and governance that keep it from turning into the predominant option for critical frameworks as such there is an urgent need to identify these concerns and to address them cloud security concepts applications and perspectives is a comprehensive work with substantial technical details for introducing the state of the art research and development on various approaches for security and privacy of cloud services novel attacks on cloud services cloud forensics novel defenses for cloud service attacks and cloud security analysis it discusses the present techniques and methodologies and provides a wide range of examples and illustrations to effectively show the concepts applications and perspectives of security in cloud computing this highly informative book will prepare readers to exercise better protection by understanding the motivation of attackers and to deal with them to

mitigate the situation in addition it covers future research directions in the domain this book is suitable for professionals in the field researchers students who are want to carry out research in the field of computer and cloud security faculty members across universities and software developers engaged in software development in the field

the interdisciplinary field of fuzzy logic encompass applications in the electrical industrial chemical and engineering realms as well as in areas of management and environmental issues while data mining covers new approaches to big data massive data and scalable parallel and distributed algorithms this book presents papers from the 6th international conference on fuzzy systems and data mining fsdm 2020 the conference was originally due to be held from 13 16 november 2020 in xiamen china but was changed to an online conference held on the same dates due to ongoing restrictions connected with the covid 19 pandemic the annual fsdm conference provides a platform for knowledge exchange between international experts researchers academics and delegates from industry this year the committee received 316 submissions of which 76 papers were selected for inclusion in the conference an acceptance rate of 24 the conference covers four main areas fuzzy theory algorithms and systems which includes topics like stability foundations and control and fuzzy applications which are widely used and cover various types of processing as well as hardware and architecture for big data and time series providing a current overview of research and developments in fuzzy logic and data mining the book will be of interest to all those working in the field of data science

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this book gathers the proceedings of the 4th international conference on mobile and wireless technology icmwt held in kuala lumpur malaysia in june 2017 an event that provides researchers and practitioners from both academia and industry with a platform to keep them abreast of cutting edge developments in the field the peer reviewed and accepted papers presented here address topics in a number of major areas mobile wireless networks and applications security in mobile and wireless mobile data management and applications

mobile software multimedia communications wireless communications and services application and business

learn the most important topics in securing aws environments through a strategic combination of fundamental principles real case studies and hands on practice to battle new generations of cyber attacks the book offers a definitive guide to aws cybersecurity ranging from identity and access management zero trust architecture and cloud threat intelligence through advanced detection methods forensics and incident response strategies we start with a deep dive into aws security fundamentals such as the shared responsibility model security pillars reference architecture and compliance frameworks like nist iso iec 27001 pci dss gdpr and hipaa we then demystify cloud security by explaining threat modeling risk analysis network security secure configurations and automated security monitoring with aws native services such as aws security hub guardduty waf and iam in addition to the fundamentals this book explores attacker tactics techniques and procedures ttps taking a deep dive into cyber adversary activity such as reconnaissance lateral movement persistence privilege escalation and exfiltration methods in aws environments you will discover how cyber attackers take advantage of poorly configured iam roles aws exposed credentials cloud reconnaissance methods and ai powered phishing campaigns and learn how to successfully fight back next few chapters offer prescriptive security advice for new technologies such as serverless computing containerized workloads hybrid and multi cloud security iot security issues and cryptocurrency threats we cover zero trust frameworks presenting real world implementations founded on nist sp 800 207 forrester ztx and csa zero trust architecture principles the book finishes with a forward looking discussion of ai powered threats such as deepfake attacks ai powered malware and next generation adversarial attacks and defense countermeasures founded on ai powered detection and automation furthermore detailed incident response and forensic techniques provide readers with the know how to examine aws security incidents create playbooks and employ proactive defense you will examine and remediate cloud security threats using comprehensive risk analysis proactive monitoring and aws native security tools get hands on implementation of zero trust architectures identity based security and least privilege principles in aws find out how to detect and respond to sophisticated cyberattacks including credential theft cloud aware

malware and ai powered phishing campaigns learn to mitigate ransomware threats in aws including prevention detection response and disaster recovery techniques explore how to secure multi cloud and hybrid deployments iot serverless apps and containerized workloads understand practical approaches to automating cloud security monitoring compliance and creating efficient detection pipelines who this book is for the book caters to beginner to intermediate cybersecurity professionals aws users solution architects developers and cloud security enthusiasts seeking a comprehensive understanding of aws security

the book secure communication in internet of things emerging technologies challenges and mitigation will be of value to the readers in understanding the key theories standards various protocols and techniques for the security of internet of things hardware software and data and explains how to design a secure internet of things system it presents the regulations global standards and standardization activities with an emphasis on ethics legal and social considerations about internet of things security features explores the new internet of things security challenges threats and future regulations to end users presents authentication authorization and anonymization techniques in the internet of things illustrates security management through emerging technologies such as blockchain and artificial intelligence highlights the theoretical and architectural aspects foundations of security and privacy of the internet of things framework discusses artificial intelligence based security techniques and cloud security for the internet of things it will be a valuable resource for senior undergraduates graduate students and academic researchers in fields such as electrical engineering electronics and communications engineering computer engineering and information technology

this book proposes new technologies and discusses future solutions for ict design infrastructures as reflected in high quality papers presented at the 8th international conference on ict for sustainable development ict4sd 2023 held in goa india on august 3 4 2023 the book covers the topics such as big data and data mining data fusion iot programming toolkits and frameworks green communication systems and network use of ict in smart cities sensor networks and embedded system network and information security wireless and optical

networks security trust and privacy routing and control protocols cognitive radio and networks and natural language processing bringing together experts from different countries the book explores a range of central issues from an international perspective

this handbook offers a comprehensive overview of cloud computing security technology and implementation while exploring practical solutions to a wide range of cloud computing security issues as more organizations use cloud computing and cloud providers for data operations the need for proper security in these and other potentially vulnerable areas has become a global priority for organizations of all sizes research efforts from academia and industry as conducted and reported by experts in all aspects of security related to cloud computing are gathered within one reference guide features covers patching and configuration vulnerabilities of a cloud server evaluates methods for data encryption and long term storage in a cloud server demonstrates how to verify identity using a certificate chain and how to detect inappropriate changes to data or system configurations john r vacca is an information technology consultant and internationally known author of more than 600 articles in the areas of advanced storage computer security and aerospace technology john was also a configuration management specialist computer specialist and the computer security official cso for nasa s space station program freedom and the international space station program from 1988 until his retirement from nasa in 1995

this isn t just a book it is a roadmap for the next generation of cybersecurity leadership in an era where cyber threats are more sophisticated and the stakes are higher than ever chief information security officers cisos can no longer rely solely on technical expertise they must evolve into strategic business leaders who can seamlessly integrate cybersecurity into the fabric of their organizations this book challenges the traditional perception of cisos as technical leaders advocating for a strategic shift toward business alignment quantitative risk management and the embrace of emerging technologies like artificial intelligence ai and machine learning it empowers cisos to transcend their technical expertise and evolve into business savvy leaders who are fully equipped to meet the rising expectations from boards executives and regulators this book directly addresses the increasing demands from

boards and regulators in the wake of recent high profile cyber events providing cisos with the necessary skills and knowledge to navigate this new landscape this book isn t just about theory but also action it delves into the practicalities of business aligned cybersecurity through real life stories and illustrative examples that showcase the triumphs and tribulations of cisos in the field this book offers unparalleled insights gleaned from the author s extensive experience in advising hundreds of successful programs including in depth discussions on risk quantification cyber insurance strategies and defining materiality for risks and incidents this book fills the gap left by other resources providing clear guidance on translating business alignment concepts into practice if you re a cybersecurity professional aspiring to a ciso role or an existing ciso seeking to enhance your strategic leadership skills and business acumen this book is your roadmap it is designed to bridge the gap between the technical and business worlds and empower you to become a strategic leader who drives value and protects your organization s most critical assets

this book is a comprehensive work that comprises latest development and technologies challenges and best practices in the industry it covers the fundamentals of cloud computing including deployment models service models and the benefits of cloud computing followed by critical aspects of cloud security including risk management threat analysis data protection identity and access management and compliance the book explores the latest security technologies such as encryption multi factor authentication and intrusion detection and prevention systems and their role in securing the cloud environment introduces a user centric measure of cyber security and provides a comparative study on the different methodologies used for cyber security offers real world case studies and hands on exercises to give a practical understanding of cloud security includes the legal and ethical issues including impact of international regulations on cloud security covers fully automated run time security and vulnerability management discusses related concepts to provide context such as cyber crime password authentication smart phone security with examples the text is for postgraduate students professionals and academic researchers working in the fields of computer science and cloud computing

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in depth informative guide to implement and use aws security services effectively about this book learn to secure your network infrastructure data and applications in aws cloud log monitor and audit your aws resources for continuous security and continuous compliance in aws cloud use aws managed security services to automate security focus on increasing your business rather than being diverged onto security risks and issues with aws security delve deep into various aspects such as the security model compliance access management and much more to build and maintain a secure environment who this book is for this book is for all it professionals system administrators and security analysts solution architects and chief information security officers who are responsible for securing workloads in aws for their organizations it is helpful for all solutions architects who want to design and

implement secure architecture on aws by the following security by design principle this book is helpful for personnel in auditors and project management role to understand how they can audit aws workloads and how they can manage security in aws respectively if you are learning aws or championing aws adoption in your organization you should read this book to build security in all your workloads you will benefit from knowing about security footprint of all major aws services for multiple domains use cases and scenarios what you will learn learn about aws identity management and access control gain knowledge to create and secure your private network in aws understand and secure your infrastructure in aws understand monitoring logging and auditing in aws ensure data security in aws learn to secure your applications in aws explore aws security best practices in detail mastering aws security starts with a deep dive into the fundamentals of the shared security responsibility model this book tells you how you can enable continuous security continuous auditing and continuous compliance by automating your security in aws with the tools services and features it provides moving on you will learn about access control in aws for all resources you will also learn about the security of your network servers data and applications in the aws cloud using native aws security services by the end of this book you will understand the complete aws security landscape covering all aspects of end to end software and hardware security along with logging auditing and compliance of your entire it environment in the aws cloud lastly the book will wrap up with aws best practices for security style and approach the book will take a practical approach delving into different aspects of aws security to help you become a master of it it will focus on using native aws security features and managed aws services to help you achieve continuous security and continuous compliance

this book analyzes the latest advances in privacy security and risk technologies within cloud environments with contributions from leading experts the text presents both a solid overview of the field and novel cutting edge research a glossary is also included at the end of the book topics and features considers the various forensic challenges for legal access to data in a cloud computing environment discusses privacy impact assessments for the cloud and examines the use of cloud audits to attenuate cloud security problems reviews

conceptual issues basic requirements and practical suggestions for provisioning dynamically configured access control services in the cloud proposes scoped invariants as a primitive for analyzing a cloud server for its integrity properties investigates the applicability of existing controls for mitigating information security risks to cloud computing environments describes risk management for cloud computing from an enterprise perspective

the rapid evolution of cloud computing has reshaped the digital landscape empowering businesses and individuals with unprecedented scalability cost efficiency and global accessibility yet as organizations migrate to the cloud they face escalating cybersecurity threats including data breaches ransomware compliance risks and ai driven attacks that demand a new paradigm of defense securing the cloud ecosystem serves as an essential guide for navigating this complex terrain offering a comprehensive and actionable approach to cloud security this book bridges the gap between theory and practice equipping security professionals it leaders and business executives with the knowledge needed to safeguard cloud infrastructures it explores foundational principles like identity and access management zero trust frameworks and compliance best practices while examining cutting edge solutions such as ai driven threat detection blockchain security and post quantum cryptography through practical insights strategic frameworks and forward looking analysis it addresses critical questions about mitigating cloud vulnerabilities balancing innovation with regulatory demands and preparing for future security challenges securing the cloud ecosystem provides a clear roadmap for building resilient cloud environments it represents a call to action for proactive defense continuous adaptation and strategic investment in next generation security solutions for anyone committed to harnessing the cloud s potential while ensuring safety compliance and trust this book serves as an indispensable resource and blueprint for success in the digital age

learn to build robust security controls for the infrastructure data and applications in the aws cloud key features takes a comprehensive layered security approach that covers major use cases covers key aws security features leveraging the cli and management console step by step instructions for all topics with graphical illustrations relevant code samples

written in javascript for node js runtime description if you re looking for a comprehensive guide to amazon services aws security this book is for you with the help of this book cloud professionals and the security team will learn how to protect their cloud infrastructure components and applications from external and internal threats the book uses a comprehensive layered security approach to look into the relevant aws services in each layer and discusses how to use them it begins with an overview of the cloud s shared responsibility model and how to effectively use the aws identity and access management iam service to configure identities and access controls for various services and components the subsequent chapter covers aws infrastructure security data security and aws application layer security finally the concluding chapters introduce the various logging monitoring and auditing services available in aws and the book ends with a chapter on aws security best practices by the end as readers you will gain the knowledge and skills necessary to make informed decisions and put in place security controls to create aws application ecosystems that are highly secure what you will learn learn to create a layered security architecture and employ defense in depth master aws iam and protect apis use aws waf aws secrets manager and aws systems manager parameter store learn to secure data in amazon s3 ebs dynamodb and rds using aws key management service secure amazon vpc filter ips use amazon inspector use ecr image scans etc protect cloud infrastructure from ddos attacks and use aws shield who this book is for the book is intended for cloud architects and security professionals interested in delving deeper into the aws cloud s security ecosystem and determining the optimal way to leverage aws security features working knowledge of aws and its core services is necessary table of contents 1 introduction to security in aws 2 identity and access management 3 infrastructure security 4 data security 5 application security 6 logging monitoring and auditing 7 security best practices

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