1. Record Nr. UNINA9910830256903321

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| Titolo | AWS certified security study guide : specialty (SCS-C01) Exam / / Dario Lucas Goldfarb [and six others] |
| Pubbl/distr/stampa | Indianapolis, Indiana : , : John Wiley and Sons, , [2021]<br>©2021 |
| ISBN | 1-119-65884-5<br>1-119-65885-3<br>1-119-65883-7 |
| Descrizione fisica | 1 online resource (494 pages) : illustrations |
| Disciplina | 004.6782 |
| Soggetti | Cloud computing - Examinations<br>Web services - Examinations |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| Nota di contenuto | Cover -- Title Page -- Copyright Page -- Acknowledgments -- About the Authors -- About the Technical Editors -- Contents at a Glance -- Contents -- Table of Exercises -- Introduction -- Assessment Test -- Chapter 1 Security Fundamentals -- Introduction -- Understanding Security -- Basic Security Concepts -- Vulnerability, Threat, and Security Risk -- Security Countermeasures and Enforcement -- Confidentiality, Integrity, and Availability -- Accountability and Nonrepudiation -- Authentication, Authorization, and Accounting -- Visibility and Context -- Foundational Networking Concepts<br>The OSI Reference Model -- The TCP/IP Protocol Stack -- Main Classes of Attacks -- Reconnaissance -- Password Attacks -- Eavesdropping Attacks -- IP Spoofing Attacks -- Man-in-the-Middle Attacks -- Denial-of-Service Attacks -- Malware Attacks -- Phishing Attacks -- Risk Management -- Important Security Solutions and Services -- Well-Known Security Frameworks and Models -- Sample Practical Models for Guiding Security Design and Operations -- The Security Wheel -- The Attack Continuum Model -- The Zero-Trust Model -- Summary -- Exam Essentials -- Review Questions<br>Chapter 2 Cloud Security Principles and Frameworks -- Introduction -- |

Cloud Security Principles Overview -- The Shared Responsibility Model -- Different Powers, Different Responsibilities -- AWS Compliance Programs -- AWS Artifact Portal -- AWS Well-Architected Framework -- Using the AWS Well-Architected Tool -- AWS Marketplace -- Summary -- Exam Essentials -- Review Questions -- Chapter 3 Identity and Access Management -- Introduction -- IAM Overview -- How AWS IAM Works -- Principals -- IAM Roles -- AWS Security Token Services -- Access Management with Policies and Permissions
Access Management in Amazon S3 -- Policy Conflicts -- Secure Data Transport in Amazon S3 -- Cross-Region Replication in Amazon S3 -- Amazon S3 Pre-signed URLs -- Identity Federation -- Amazon Cognito -- Multi-Account Management with AWS Organizations -- Service Control Policies -- AWS Single Sign-On -- Microsoft AD Federation with AWS -- Protecting Credentials with AWS Secrets Manager -- Secrets Permission Management -- Automatic Secrets Rotation -- Choosing between AWS Secrets Manager and AWS Systems Manager Parameter Store -- Summary -- Exam Essentials -- Review Questions
Chapter 4 Detective Controls -- Introduction -- Stage 1: Resources State -- AWS Config -- AWS Systems Manager -- Stage 2: Events Collection -- AWS CloudTrail -- Amazon CloudWatch Logs -- Amazon CloudWatch -- AWS Health -- Stage 3: Events Analysis -- AWS Config Rules -- Amazon Inspector -- Amazon GuardDuty -- AWS Security Hub -- AWS Systems Manager: State Manager, Patch Manager, and Compliance -- AWS Trusted Advisor -- Stage 4: Action -- AWS Systems Manager: Automation -- AWS Config Rules: Remediation -- Amazon EventBridge -- Summary -- Exam Essentials -- Review Questions

Sommario/riassunto

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.

2. Record Nr. UNINA9910864196803321

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| Autore | Xie Rui |
| Titolo | Distributionally Robust Optimization and its Applications in Power System Energy Storage Sizing / / by Rui Xie, Wei Wei |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024 |
| ISBN | 981-9725-66-6 |
| Edizione | [1st ed. 2024.] |
| Descrizione fisica | 1 online resource (461 pages) |
| Altri autori (Persone) | WeiWei |
| Disciplina | 621.31 |
| Soggetti | Electric power production<br>Mathematical models<br>Operations research<br>Electrical Power Engineering<br>Mathematical Modeling and Industrial Mathematics<br>Operations Research and Decision Theory |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Introduction -- Preliminary -- Basic Distributionally Robust Optimization -- Moment-Based Distributionally Robust Optimization -- Divergence Distributionally Robust Optimization -- Wasserstein-Distance Distributionally Robust Optimization. |
| Sommario/riassunto | This book introduces the mathematical foundations of distributionally robust optimization (DRO) for decision-making problems with ambiguous uncertainties and applies them to tackle the critical challenge of energy storage sizing in renewable-integrated power systems, providing readers with an efficient and reliable approach to analyze and design real-world energy systems with uncertainties. Covering a diverse range of topics, this book starts by exploring the necessity for energy storage in evolving power systems and examining the benefits of employing distributionally robust optimization. Subsequently, the cutting-edge mathematical theory of distributionally robust optimization is presented, including both the general theory and moment-based, KL-divergence, and Wasserstein-metric distributionally robust optimization theories. The techniques are then applied to various practical energy storage sizing scenarios, such as stand-alone |

microgrids, large-scale renewable power plants, bulkpower grids, and multi-carrier energy networks. This book offers clear explanations and accessible guidance to bridge the gap between advanced optimization methods and industrial applications. Its interdisciplinary scope makes the book appealing to researchers, graduate students, and industry professionals working in electrical engineering and operations research, catering to both beginners and experts.