

Keyvault 12

Haishi Bai

Microsoft Azure Sentinel Yuri Diogenes,Nicholas DiCola,Tiander Turpijn,2022-08-05 Build next-generation security operations with Microsoft Sentinel Microsoft Sentinel is the scalable, cloud-native, security information and event management (SIEM) solution for automating and streamlining threat identification and response across your enterprise. Now, three leading experts guide you step-by-step through planning, deployment, and operations, helping you use Microsoft Sentinel to escape the complexity and scalability challenges of traditional solutions. Fully updated for the latest enhancements, this edition introduces new use cases for investigation, hunting, automation, and orchestration across your enterprise and all your clouds. The authors clearly introduce each service, concisely explain all new concepts, and present proven best practices for maximizing Microsoft Sentinel's value throughout security operations. Three of Microsoft's leading security operations experts show how to: Review emerging challenges that make better cyberdefense an urgent priority See how Microsoft Sentinel responds by unifying alert detection, threat visibility, proactive hunting, and threat response Explore components, architecture, design, and initial configuration Ingest alerts and raw logs from all sources you need to monitor Define and validate rules that prevent alert fatigue Use threat intelligence, machine learning, and automation to triage issues and focus on high-value tasks Add context with User and Entity Behavior Analytics (UEBA) and Watchlists Hunt sophisticated new threats to disrupt cyber kill chains before you're exploited Enrich incident management and threat hunting with Jupyter notebooks Use Playbooks to automate more incident handling and investigation tasks Create visualizations to spot trends, clarify relationships, and speed decisions Simplify integration with point-and-click data connectors that provide normalization, detection rules, queries, and Workbooks About This Book For cybersecurity analysts, security administrators, threat hunters, support professionals, engineers, and other IT professionals concerned with security operations For both Microsoft Azure and non-Azure users at all levels of experience

Applied Cryptography in .NET and Azure Key Vault Stephen Haunts,2019-02-11 Benefit from Microsoft's robust suite of security and cryptography primitives to create a complete, hybrid encryption scheme that will protect your data against breaches. This highly practical book teaches you how to use the .NET encryption APIs and Azure Key Vault, and how they can work together to produce a robust security solution. Applied Cryptography in .NET and Azure Key Vault begins with an introduction to the dangers of data breaches and the basics of cryptography. It then takes you through important cryptographic techniques and practices, from hashing and symmetric/asymmetric encryption, to key storage mechanisms. By the end of the book, you'll know how to combine these cryptographic primitives into a hybrid encryption scheme that you can use in your applications. Author Stephen Haunts brings 25 years of software development and security experience to the table to give you the concrete skills, knowledge, and code you need to implement the latest encryption standards in your own projects. What You'll LearnGet an introduction to the principles of encryption Understand the main cryptographic protocols in use today, including AES, DES, 3DES, RSA, SHAx hashing, HMACs, and digital signatures Combine cryptographic techniques to create a hybrid cryptographic scheme, with the benefits of confidentiality, integrity, authentication, and non-repudiation Use Microsoft's Azure Key Vault to securely store encryption keys and secretsBuild real-world code to use in your own projects Who This Book Is For Software developers with experience in .NET and C#. No prior knowledge of encryption and cryptographic principles is assumed.

Exam Ref AZ-500 Microsoft Azure Security Technologies Yuri Diogenes,Orin Thomas,2022-04-19 Prepare for Microsoft Exam AZ-500: Demonstrate your real-world knowledge of Microsoft Azure security, including tools and techniques for protecting identity, access, platforms, data, and applications, and for effectively managing security operations. Designed for professionals with Azure security experience, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified: Azure Security Engineer Associate level. Focus on the expertise measured by these objectives: Manage identity and access Implement platform protection Manage security operations Secure data and applications This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you have expertise implementing security controls and threat protection, managing identity and access, and protecting assets in cloud and hybrid environments About the Exam Exam AZ-500 focuses on the knowledge needed to manage Azure Active Directory identities; configure secure access with Azure AD; manage application access and access control; implement advanced network security; configure advanced security for compute; monitor security with Azure Monitor, Azure Firewall manager, Azure Security Center, Azure Defender, and Azure Sentinel; configure security policies; configure security for storage and databases; and configure and manage Key Vault. About Microsoft Certification Passing this exam fulfills your requirements for the Microsoft Certified: Azure Security Engineer Associate credential, demonstrating your expertise as an Azure Security Engineer capable of maintaining security posture, identifying and remediating vulnerabilities, implementing threat protection, and responding to incident escalations as part of a cloud-based management and security team. See full details at: microsoft.com/learn

Implementing the Storwize V7000 and the IBM System Storage SAN32B-E4 Encryption Switch Jon Tate,Stefan Neff,Glen Routley,Denis Senin,IBM Redbooks,2012-02-15 In this IBM® Redbooks® publication, we describe how these products can be combined to provide an encryption and virtualization solution: IBM System Storage® SAN32B-E4 Encryption Switch IBM Storwize® V7000 IBM Tivoli® Key Lifecycle Manager We describe the terminology that is used in an encrypted and virtualized environment, and we show how to implement these products to take advantage of their strengths. This book is intended for anyone who needs to understand and implement the IBM System Storage SAN32B-E4 Encryption Switch, IBM Storwize V7000, IBM Tivoli Key Lifecycle Manager, and encryption.

A Developer's Guide to .NET in Azure Anuraj Parameswaran,Tamir Al Balkhi,2023-10-20 Develop cloud-native applications using serverless technologies, Azure services, and .NET with the help of this reference guide Key Features Create cloud-native .NET applications using cutting-edge technologies Design, develop, and deploy scalable, manageable, and resilient apps with various Azure services Explore serverless architecture and optimize application scalability through efficient design Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionA Developer's Guide to .NET in Azure helps you embark on a transformative journey through Microsoft Azure that is tailored to .NET developers. This book is a curated compendium that'll enable you to master the creation of resilient, scalable, and highly available applications. The book is divided into four parts, with Part 1 demystifying Azure for you and emphasizing the portal's utility and seamless integration. The chapters in this section help you configure your workspace for optimal Azure synergy. You'll then move on to Part 2, where you'll explore serverless computing, microservices, containerization, Dapr, and Azure Kubernetes Service for scalability, and build pragmatic, cost-effective applications using Azure Functions

and Container apps. Part 3 delves into data and storage, showing you how to utilize Azure Blob Storage for unstructured data, Azure SQL Database for structured data, and Azure Cosmos DB for document-oriented data. The final part teaches you about messaging and security, utilizing Azure App Configuration, Event Hubs, Service Bus, Key Vault, and Azure AD B2C for robust, secure applications. By the end of this book, you'll have mastered Azure's responsive infrastructure for exceptional applications. What you will learn Discover how to create serverless apps and services Design microservices with Azure Kubernetes service Get to grips with different Azure databases and storage services Find out how to use secret and configuration management Familiarize yourself with event-driven architecture Understand how to leverage Azure Service Bus and Azure Event Hubs Find out how to protect APIs and apps using Azure B2C Who this book is for This book is for .NET developers and architects who are eager to master the art of creating and deploying robust applications using .NET and Azure. A foundational understanding of .NET and Azure will enable you to enhance your skills with this resourceful guide. Developers aspiring to explore the realms of microservices and serverless applications within the .NET and Azure landscapes will find this book invaluable.

Hands-on Kubernetes on Azure Nills Franssens, Shivakumar Gopalakrishnan, Gunther Lenz, 2021-05-17 Understand the fundamentals of Kubernetes deployment on Azure with a learn-by-doing approach Key Features Get to grips with the fundamentals of containers and Kubernetes Deploy containerized applications using the Kubernetes platform Learn how you can scale your workloads and secure your application running in Azure Kubernetes Service Book Description Containers and Kubernetes containers facilitate cloud deployments and application development by enabling efficient versioning with improved security and portability. With updated chapters on role-based access control, pod identity, storing secrets, and network security in AKS, this third edition begins by introducing you to containers, Kubernetes, and Azure Kubernetes Service (AKS), and guides you through deploying an AKS cluster in different ways. You will then delve into the specifics of Kubernetes by deploying a sample guestbook application on AKS and installing complex Kubernetes apps using Helm. With the help of real-world examples, you'll also get to grips with scaling your applications and clusters. As you advance, you'll learn how to overcome common challenges in AKS and secure your applications with HTTPS. You will also learn how to secure your clusters and applications in a dedicated section on security. In the final section, you'll learn about advanced integrations, which give you the ability to create Azure databases and run serverless functions on AKS as well as the ability to integrate AKS with a continuous integration and continuous delivery (CI/CD) pipeline using GitHub Actions. By the end of this Kubernetes book, you will be proficient in deploying containerized workloads on Microsoft Azure with minimal management overhead. What you will learn Plan, configure, and run containerized applications in production. Use Docker to build applications in containers and deploy them on Kubernetes. Monitor the AKS cluster and the application. Monitor your infrastructure and applications in Kubernetes using Azure Monitor. Secure your cluster and applications using Azure-native security tools. Connect an app to the Azure database. Store your container images securely with Azure Container Registry. Install complex Kubernetes applications using Helm. Integrate Kubernetes with multiple Azure PaaS services, such as databases, Azure Security Center, and Functions. Use GitHub Actions to perform continuous integration and continuous delivery to your cluster. Who this book is for If you are an aspiring DevOps professional, system administrator, developer, or site reliability engineer interested in learning how to get the most out of containers and Kubernetes, then this book is for you.

Implementing the IBM System Storage SAN32B-E4 Encryption Switch Jon Tate, Uwe Dubberke, Michael Engelbrecht, IBM Redbooks, 2011-03-07 This IBM® Redbooks® publication covers the IBM System Storage® SAN32B-E4 Encryption Switch, which is a high-performance stand-alone device designed to protect data-at-rest in mission-critical environments. In addition to helping IT organizations achieve compliance with regulatory mandates and meeting industry standards for data confidentiality, the SAN32B-E4 Encryption Switch also protects them against potential litigation and liability following a reported breach. Data is one of the most highly valued resources in a competitive business environment. Protecting that data, controlling access to it, and verifying its authenticity while maintaining its availability are priorities in our security-conscious world. Increasing regulatory requirements also drive the need for adequate data security. Encryption is a powerful and widely used technology that helps protect data from loss and inadvertent or deliberate compromise. In the context of data center fabric security, IBM provides advanced encryption services for Storage Area Networks (SANs) with the IBM System Storage SAN32B-E4 Encryption Switch. The switch is a high-speed, highly reliable hardware device that delivers fabric-based encryption services to protect data assets either selectively or on a comprehensive basis. The 8 Gbps SAN32B-E4 Fibre Channel Encryption Switch scales nondisruptively, providing from 48 up to 96 Gbps of encryption processing power to meet the needs of the most demanding environments with flexible, on-demand performance. It also provides compression services at speeds up to 48 Gbps for tape storage systems. Moreover, it is tightly integrated with one of the industry-leading, enterprise-class key management systems, the IBM Tivoli® Key Lifecycle Manager (TKLM), which can scale to support key life-cycle services across distributed environments.

Kubernetes Secrets Management Alex Soto Bueno, Andrew Block, 2023-01-17 Safely manage your secret information like passwords, keys, and certificates in Kubernetes. This practical guide is full of best practices and methods for adding layers of security that will defend the critical data of your applications. In Kubernetes Secrets Management you will find: Strategies for storing secure assets in Kubernetes Cryptographic options and how to apply them in Kubernetes Using the HashiCorp Vault server on Kubernetes for secure secrets storage Managing security with public cloud providers Applying security concepts using tools from the Kubernetes ecosystem End-to-end secrets storage from development to operations Implementing in Kubernetes in CI/CD systems Secrets, like database passwords and API keys, are some of the most important data in your application. Kubernetes Secrets Management reveals how to store these sensitive assets in Kubernetes in a way that's protected against leaks and hacks. You'll learn the default capabilities of Kubernetes secrets, where they're lacking, and alternative options to strengthen applications and infrastructure. Discover a security-first mindset that is vital for storing and using secrets correctly, and tools and concepts that will help you manage sensitive assets such as certificates, keys, and key rotation. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Kubernetes relies on passwords, tokens, keys, certificates, and other sensitive information to keep your system secure. But how do you keep these "secrets" safe? In this concise, practical book you'll learn secrets management techniques that go far beyond the Kubernetes defaults. About the book Kubernetes Secrets Management reveals security best practices and reliable third-party tools for protecting sensitive data in Kubernetes-based systems. In this focused guide,

you'll explore relevant, real-world examples like protecting secrets in a code repository, securing keys with HashiCorp Vault, and adding layers to maintain protection after a breach. Along the way, you'll pick up secrets management techniques you can use outside Kubernetes, as well. What's inside Cryptographic options you can apply in Kubernetes Managing security with public cloud providers Secrets storage, from development to production End-to-end Kubernetes secrets management in CI/CD systems About the reader For readers experienced with Kubernetes and CI/CD practices. About the author Alex Soto is a director of developer experience at Red Hat, a Java Champion since 2007, an international speaker, and a teacher at Salle URL University. Andrew Block is a distinguished architect with Red Hat, and an active member of the open-source community. Table of Contents PART 1 SECRETS AND KUBERNETES 1 Kubernetes Secrets 2 An introduction to Kubernetes and Secrets PART 2 MANAGING SECRETS 3 Securely storing Secrets 4 Encrypting data at rest 5 HashiCorp Vault and Kubernetes 6 Accessing cloud secrets stores PART 3 CONTINUOUS INTEGRATION AND CONTINUOUS DELIVERY 7 Kubernetes-native continuous integration and Secrets 8 Kubernetes-native continuous delivery and Secrets

ASP.NET Core Application Development James Chambers,David Paquette,Simon Timms,2016-11-29 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through four complete sprints, this book takes you through every step needed to build brand new cross-platform web apps with ASP.NET Core, and make them available on the Internet. You won't just master Microsoft's revolutionary open source ASP.NET Core technology: you'll learn how to integrate the immense power of MVC, Docker, Azure Web Apps, Visual Studio and Visual Studio Code, C#, JavaScript, TypeScript, and Entity Framework. Working through the authors' carefully designed sprints, you'll start with a blank canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more. Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before.

Azure Cookbook Reza Salehi,2022-10-10 How do you deal with the problems you face when using Azure? This practical guide provides over 75 recipes to help you to work with common Azure issues in everyday scenarios. That includes key tasks like setting up permissions for a storage account, working with Cosmos DB APIs, managing Azure role-based access control, governing your Azure subscriptions using Azure Policy, and much more. Author Reza Salehi has assembled real-world recipes that enable you to grasp key Azure services and concepts quickly. Each recipe includes CLI scripts that you can execute in your own Azure account. Recipes also explain the approach and provide meaningful context. The solutions in this cookbook will take you beyond theory and help you understand Azure services in practice. You'll find recipes that let you: Store data in an Azure storage account or in a data lake Work with relational and nonrelational databases in Azure Manage role-based access control (RBAC) for Azure resources Safeguard secrets in Azure Key Vault Govern your Azure subscription using Azure Policy Use CLI code to construct your application or fix a particular problem

Pentesting Azure Applications Matt Burrough,2018-07-23 A comprehensive guide to penetration testing cloud services deployed with Microsoft Azure, the popular cloud computing service provider used by companies like Warner Brothers and Apple. Pentesting Azure Applications is a comprehensive guide to penetration testing cloud services deployed in Microsoft Azure, the popular cloud computing service provider used by numerous companies. You'll start by learning how to approach a cloud-focused penetration test and how to obtain the proper permissions to execute it; then, you'll learn to perform reconnaissance on an Azure subscription, gain access to Azure Storage accounts, and dig into Azure's Infrastructure as a Service (IaaS). You'll also learn how to: - Uncover weaknesses in virtual machine settings that enable you to acquire passwords, binaries, code, and settings files - Use PowerShell commands to find IP addresses, administrative users, and resource details - Find security issues related to multi-factor authentication and management certificates - Penetrate networks by enumerating firewall rules - Investigate specialized services like Azure Key Vault, Azure Web Apps, and Azure Automation - View logs and security events to find out when you've been caught Packed with sample pentesting scripts, practical advice for completing security assessments, and tips that explain how companies can configure Azure to foil common attacks, Pentesting Azure Applications is a clear overview of how to effectively perform cloud-focused security tests and provide accurate findings and recommendations.

Programming Microsoft Azure Service Fabric Haishi Bai,2016-06-01 Build exceptionally scalable cloud applications for fast-growing businesses Microsoft Azure Service Fabric makes it easier than ever before to build large-scale distributed cloud applications. You can quickly develop and update microservice-based applications, efficiently operate highly reliable hyperscale services, and deploy the same application code on public, hosted, or private clouds. This book introduces all key Azure Service Fabric concepts and walks you through implementing several real-world applications. You'll find advanced design patterns, tuning tips, and lessons learned from early adopters—all from the perspective of developing and operating large projects in production. Microsoft Azure evangelist Haishi Bai shows how to: Implement background services and use stateless services to handle user requests Solve state-management problems in distributed systems Package, stage, and deploy applications Upgrade applications in place, with zero downtime Leverage Quality of Service (QoS) options throughout app design, implementation, and operation Manage Service Fabric clusters with Windows PowerShell and the Management Portal Configure Service Fabric Diagnostics and analyze collected data Test functionality and performance Design Internet of Things (IoT) solutions that capture and manage petabytes of data Handle demanding real-time data-streaming compute scenarios Understand multitenancy and single-tenancy as logical architecture choices Build Service Fabric game engines to support large-scale, multiplayer online games Model complex systems with the Service Fabric Actors Pattern About This Book For all cloud developers who want to create and operate large-scale distributed cloud applications by using Microsoft Azure Service Fabric For all IT professionals who want to integrate Windows Server and Microsoft Azure in any environment, including datacenters

Azure Security Bojan Magusic,2024-01-09 Azure Security is a practical guide to the native security services of Microsoft Azure written for software and security engineers building and securing Azure applications. Readers will learn how to use Azure tools to improve your systems security and get an insider's perspective on establishing a DevSecOps program using the capabilities of Microsoft Defender for Cloud.

Exam Ref AZ-303 Microsoft Azure Architect Technologies Timothy L. Warner,Mike Pfeiffer,Derek Schauand,Nicole Stevens,Gurvinder Singh,2020-12-09 Prepare for Microsoft Exam AZ-303—and help demonstrate your real-world mastery of architecting high-value Microsoft Azure solutions for your organization or customers. Designed for modern IT professionals, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Expert level.

Focus on the expertise measured by these objectives:

- Implement and monitor an Azure infrastructure
- Implement management and security solutions
- Implement solutions for apps
- Implement and manage data platforms

This Microsoft Exam Ref:

- Organizes its coverage by exam objectives
- Features strategic, what-if scenarios to challenge you
- Assumes you are an IT professional who wants to demonstrate your ability to design modern Microsoft Azure solutions involving compute, network, storage, and security

About the Exam

Exam AZ-303 focuses on knowledge needed to implement cloud infrastructure monitoring, storage accounts, and VMs (Windows and Linux); automate resource deployment and configuration; implement virtual networking and Azure Active Directory; implement and manage hybrid identities; manage Azure workloads; implement Azure Site Recovery; implement application infrastructure; manage application security; implement load balancing and network security; integrate Azure virtual networks with on-premises networks; implement and manage Azure governance solutions; manage Role-Based Access Control; implement application infrastructure and container-based apps; implement NoSQL and Azure SQL databases; and implement Azure SQL database managed instances.

About Microsoft Certification

Passing this exam and Exam AZ-304: Microsoft Azure Architect Design fulfills your requirements for the Microsoft Certified: Azure Solutions Architect Expert credential, demonstrating your expertise in compute, network, storage, and security for designing and implementing modern cloudbased solutions that run on Microsoft Azure. See full details at: microsoft.com/learn

Exam Ref AZ-304 Microsoft Azure Architect Design Certification and Beyond Brett Hargreaves, 2021-07-23 Master the Microsoft Azure platform and prepare for the AZ-304 certification exam by learning the key concepts needed to identify key stakeholder requirements and translate these into robust solutions

Key Features

- Build secure and scalable solutions on the Microsoft Azure platform
- Learn how to design solutions that are compliant with customer requirements
- Work with real-world scenarios to become a successful Azure architect, and prepare for the AZ-304 exam

Book Description

The AZ-304 exam tests an architect's ability to design scalable, reliable, and secure solutions in Azure based on customer requirements. Exam Ref AZ-304 Microsoft Azure Architect Design Certification and Beyond offers complete, up-to-date coverage of the AZ-304 exam content to help you prepare for it confidently, pass the exam first time, and get ready for real-world challenges. This book will help you to investigate the need for good architectural practices and discover how they address common concerns for cloud-based solutions. You will work through the CloudStack, from identity and access through to infrastructure (IaaS), data, applications, and serverless (PaaS). As you make progress, you will delve into operations including monitoring, resilience, scalability, and disaster recovery. Finally, you'll gain a clear understanding of how these operations fit into the real world with the help of full scenario-based examples throughout the book. By the end of this Azure book, you'll have covered everything you need to pass the AZ-304 certification exam and have a handy desktop reference guide. What you will learn

- Understand the role of architecture in the cloud
- Ensure security through identity, authorization, and governance
- Find out how to use infrastructure components such as compute, containerization, networking, and storage accounts
- Design scalable applications and databases using web apps, functions, messaging, SQL, and Cosmos DB
- Maintain operational health through monitoring, alerting, and backups
- Discover how to create repeatable and reliable automated deployments
- Understand customer requirements and respond to their changing needs

Who this book is for

This book is for Azure Solution Architects who advise stakeholders and help translate business requirements into secure, scalable, and reliable solutions. Junior architects looking to advance their skills in the Cloud will also benefit from this book. Experience with the Azure platform is expected, and a general understanding of development patterns will be advantageous.

Securing SQL Server Peter A. Carter, 2018-11-14 Protect your data from attack by using SQL Server technologies to implement a defense-in-depth strategy for your database enterprise. This new edition covers threat analysis, common attacks and countermeasures, and provides an introduction to compliance that is useful for meeting regulatory requirements such as the GDPR. The multi-layered approach in this book helps ensure that a single breach does not lead to loss or compromise of confidential, or business sensitive data. Database professionals in today's world deal increasingly with repeated data attacks against high-profile organizations and sensitive data. It is more important than ever to keep your company's data secure. Securing SQL Server demonstrates how developers, administrators and architects can all play their part in the protection of their company's SQL Server enterprise. This book not only provides a comprehensive guide to implementing the security model in SQL Server, including coverage of technologies such as Always Encrypted, Dynamic Data Masking, and Row Level Security, but also looks at common forms of attack against databases, such as SQL Injection and backup theft, with clear, concise examples of how to implement countermeasures against these specific scenarios. Most importantly, this book gives practical advice and engaging examples of how to defend your data, and ultimately your job, against attack and compromise. What You'll Learn

- Perform threat analysis
- Implement access level control and data encryption
- Avoid non-reputability by implementing comprehensive auditing
- Use security metadata to ensure your security policies are enforced
- Mitigate the risk of credentials being stolen
- Put countermeasures in place against common forms of attack

Who This Book Is For

Database administrators who need to understand and counteract the threat of attacks against their company's data, and useful for SQL developers and architects

Microsoft Azure Security Technologies Certification and Beyond David Okeyode, 2021-11-04 Excel at AZ-500 and implement multi-layered security controls to protect against rapidly evolving threats to Azure environments – now with the the latest updates to the certification

Key Features

- Master AZ-500 exam objectives and learn real-world Azure security strategies
- Develop practical skills to protect your organization from constantly evolving security threats
- Effectively manage security governance, policies, and operations in Azure

Book Description

Exam preparation for the AZ-500 means you'll need to master all aspects of the Azure cloud platform and know how to implement them. With the help of this book, you'll gain both the knowledge and the practical skills to significantly reduce the attack surface of your Azure workloads and protect your organization from constantly evolving threats to public cloud environments like Azure. While exam preparation is one of its focuses, this book isn't just a comprehensive security guide for those looking to take the Azure Security Engineer certification exam, but also a valuable resource for those interested in securing their Azure infrastructure and keeping up with the latest updates. Complete with hands-on tutorials, projects, and self-assessment questions, this easy-to-follow guide builds a solid foundation of Azure security. You'll not only learn about security technologies in Azure but also be able to configure and manage them. Moreover, you'll develop a clear understanding of how to identify different attack vectors and mitigate risks. By the end of this book, you'll be well-versed with implementing multi-layered security to protect identities, networks, hosts, containers, databases, and storage in Azure – and more than ready to tackle the AZ-500. What you will learn

- Manage users, groups, service principals, and roles effectively in Azure AD
- Explore Azure AD identity security and governance

capabilitiesUnderstand how platform perimeter protection secures Azure workloadsImplement network security best practices for IaaS and PaaSDiscover various options to protect against DDoS attacksSecure hosts and containers against evolving security threatsConfigure platform governance with cloud-native toolsMonitor security operations with Azure Security Center and Azure SentinelWho this book is for This book is a comprehensive resource aimed at those preparing for the Azure Security Engineer (AZ-500) certification exam, as well as security professionals who want to keep up to date with the latest updates. Whether you're a newly qualified or experienced security professional, cloud administrator, architect, or developer who wants to understand how to secure your Azure environment and workloads, this book is for you. Beginners without foundational knowledge of the Azure cloud platform might progress more slowly, but those who know the basics will have no trouble following along.

Exam Ref AZ-204 Developing Solutions for Microsoft Azure Santiago Fernandez Munoz,2020-09-18 Prepare for Microsoft Exam AZ-204—and help demonstrate your real-world mastery of Microsoft Azure solutions development. Designed for working Azure developers, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Azure Developer Associate level. Focus on the expertise measured by these objectives: Develop for cloud storage Create Platform as a Service (PaaS) Solutions Secure cloud solutions Develop for an Azure cloud model Implement cloud integration solutions Develop Azure Cognitive Services, Bot, and IoT solutions Develop Azure Infrastructure as a Service compute solutions Develop Azure Platform as a Service compute solutions Develop for Azure storage Implement Azure security Monitor, troubleshoot, and optimize solutions Connect to and consume Azure services and third-party services This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you want to show your ability to design and build diverse Microsoft Azure cloud solutions, and successfully participate in all phases of their development About the Exam Exam AZ-204 focuses on knowledge needed to develop Azure compute solutions; develop for Azure storage; implement Azure security; monitor, troubleshoot, and optimize Azure solutions; connect to and consume Azure services and third-party services. About Microsoft Certification Passing this exam fulfills your requirements for the Microsoft Certified: Azure Developer Associate credential, demonstrating your readiness to design, build, test, and maintain Microsoft Azure cloud solutions, and partner with other cloud professionals and clients to implement them. This exam is also a prerequisite for the Microsoft Certified: Azure DevOps Engineer Expert credential. See full details at: microsoft.com/learn

Securing Oracle Database 12c: A Technical Primer eBook Michelle Malcher,Scott Rotondo,Paul Needham,2013-12-23 This Oracle Press eBook is filled with cutting-edge security techniques for Oracle Database 12c. It covers authentication, access control, encryption, auditing, controlling SQL input, data masking, validating configuration compliance, and more. Each chapter covers a single threat area, and each security mechanism reinforces the others.

Learn Azure in a Month of Lunches, Second Edition Iain Foulds,2020-10-06 Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. Summary You can be incredibly productive with Azure without mastering every feature, function, and service. Learn Azure in a Month of Lunches, Second Edition gets you up and running quickly, teaching you the most important concepts and tasks in 21 practical bite-sized lessons. As you explore the examples, exercises, and labs, you'll pick up valuable skills immediately and take your first steps to Azure mastery! This fully revised new edition covers core changes to the Azure UI, new Azure features, Azure containers, and the upgraded Azure Kubernetes Service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft Azure is vast and powerful, offering virtual servers, application templates, and prebuilt services for everything from data storage to AI. To navigate it all, you need a trustworthy guide. In this book, Microsoft engineer and Azure trainer Iain Foulds focuses on core skills for creating cloud-based applications. About the book Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. What's inside Understanding Azure beyond point-and-click Securing applications and data Automating your environment Azure services for machine learning, containers, and more About the reader This book is for readers who can write and deploy simple web or client/server applications. About the author Iain Foulds is an engineer and senior content developer with Microsoft. Table of Contents PART 1 - AZURE CORE SERVICES 1 Before you begin 2 Creating a virtual machine 3 Azure Web Apps 4 Introduction to Azure Storage 5 Azure Networking basics PART 2 - HIGH AVAILABILITY AND SCALE 6 Azure Resource Manager 7 High availability and redundancy 8 Load-balancing applications 9 Applications that scale 10 Global databases with Cosmos DB 11 Managing network traffic and routing 12 Monitoring and troubleshooting PART 3 - SECURE BY DEFAULT 13 Backup, recovery, and replication 14 Data encryption 15 Securing information with Azure Key Vault 16 Azure Security Center and updates PART 4 - THE COOL STUFF 17 Machine learning and artificial intelligence 18 Azure Automation 19 Azure containers 20 Azure and the Internet of Things 21 Serverless computing

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Keyvault 12**

In a global inundated with monitors and the cacophony of instantaneous interaction, the profound energy and mental resonance of verbal art frequently disappear into obscurity, eclipsed by the regular barrage of sound and distractions. However, set within the lyrical pages of **Keyvault 12**, a fascinating work of literary splendor that pulses with fresh emotions, lies an memorable journey waiting to be embarked upon. Penned by a virtuoso wordsmith, this enchanting opus manuals visitors on a psychological odyssey, softly exposing the latent potential and profound affect stuck within the complex internet of language. Within the heart-wrenching expanse with this evocative analysis, we shall embark upon an introspective exploration of the book is main subjects, dissect its interesting publishing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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