

Valid Exam 312-40 Blueprint - 312-40 Valid Test Notes

Certified Cloud Security Engineer (CCSE) 312-40 Exam Outline	Key Contents
Introduction to Cloud Security (8%)	- Cloud Computing Fundamentals - Cloud Security Objectives and Issues - Cloud Security Insights - Evaluate CSPs for Security Before Consuming a Cloud Service - Security Shared Responsibility Model in Amazon Cloud (AWS) - Security Shared Responsibility Model in Microsoft Azure Cloud - Discuss the Security Shared Responsibility Model in Google Cloud Platform (GCP)
Platform and Infrastructure Security in the Cloud (12%)	- Understand Cloud Platform and Infrastructure - Risks and Threats Associated with Cloud Platform and Infrastructure - Secure the Key Components of the Cloud Platform and Infrastructure - Design a Secure Data Center in Cloud - Cloud Platform and Infrastructure Security in AWS - Implement Cloud Platform and Infrastructure Security in AWS - Cloud Platform and Infrastructure Security in GCP - Implement Cloud Platform and Infrastructure Security in Google - Cloud Platform and Infrastructure Security in Microsoft Azure - Implement Cloud Platform and Infrastructure Security in Microsoft Azure
Application Security in Cloud (12%)	- Understand Cloud Application Security - Cloud application security risks - Secure Software Development Lifecycle (SSDLC) of Cloud Applications - DevOps and Continuous Integration/Continuous Deployment (CI/CD) - Cloud application security controls - Application Security Features in AWS - Implement Application Security in AWS - Application Security Features in Azure - Implement Application Security in Azure - Application Security Features in GCP - Implement Application Security in GCP
Data Security in Cloud (12%)	- Understand Data Security in the Cloud - Cloud data storage fundamentals - Cloud storage architecture and life cycle phases - Risks, attacks, and issues in cloud data storage - Data security strategies and technologies in the cloud - Information Rights Management Systems - Data retention and archiving strategies - Storage and Analysis of Data Events - Storage services in Amazon Webservices (AWS) - Implement data security in Amazon Webservices (AWS) - Storage services in Google Cloud Platform (GCP) - Implement data security in Google Cloud Platform (GCP) - Storage services in Microsoft Azure - Implement data security in Microsoft Azure
Security Operations in Cloud (8%)	- Discuss cloud security operations - Elements (standards and methods) in cloud data center physical/logical Operations - Security Operations to Build Cloud Infrastructure - Perform Security Operations for Cloud Infrastructure - Security Operations to Manage Cloud Infrastructure - Security Configurations Management for Cloud Infrastructure - Monitor Security Operations for Cloud Infrastructure - Security operations in Microsoft Azure - Implement security operations in Microsoft Azure - Security operations in Amazon Webservices (AWS) - Implement security operations in Amazon Webservices (AWS) - Security operations in Google Cloud Platform (GCP) - Implement security operations in Google Cloud Platform (GCP)
Penetration Testing in Cloud (8%)	- Scope of cloud penetration testing - Generic penetration testing steps in the cloud - AWS-specific penetration testing steps - Azure-specific penetration testing steps - GCP-specific penetration testing steps
Incident Response in Cloud (8%)	- Understand Cloud Incident Response - Cloud Incident Response Lifecycle - Understand How SCAR Accelerates Incident Response - Security Incident Response in AWS - AWS Investigation and Detection Tools - Security Incident Response in Microsoft Azure Cloud - Security Incident Response in Google Cloud Platform (GCP)
Forensic Investigation in Cloud (8%)	- Discuss cloud forensics - Investigate security incidents in Amazon Web Services (AWS) - Investigate security incidents in Microsoft Azure - Investigate security incidents in Google Cloud Platform (GCP)
Business Continuity and Disaster Recovery in the Cloud (8%)	- Discuss Cloud Disaster Recovery and Business Continuity - Design Disaster Recovery and Business Continuity in Cloud - Architect Recovery and Resilience in AWS - Implement Recovery and Resilience in AWS - Business Continuity and Disaster Recovery in Microsoft Azure - Disaster Recovery Configurations in Azure - Implement BCDR with Azure SQL Database - Configure BCDR for Azure Stack Edge VPN - Various Disaster Recovery Scenarios in Azure - Implement BCDR in Azure - Azure Partner Solutions for BCDR - BCDR in Google Cloud Platform (GCP) - GCP Resources for Disaster Recovery (DR) and Business Continuity Plan (BCP) - Disaster Recovery for Data in GCP - Disaster Recovery for Applications in GCP - Architect DR for Cloud Infrastructure Outages - Implement BCDR in Google Cloud Platform (GCP) - Partners Solutions for Implementing BCDR in GCP
Governance, Risk Management, and Compliance in Cloud (8%)	- Understand GRC in the Cloud - Cloud Governance - Implement and Maintain Governance for Cloud Computing - Risk Management in the Cloud - Risk Management Framework and Process in the Cloud - Cloud Compliance - Implement GRC in the cloud - GRC in Amazon Web Services (AWS) - GRC in Azure - GRC in Google Cloud Platform (GCP)
Standards, Policies, and Legal Issues in Cloud (8%)	- Laws Impacting Cloud Computing - Cloud Computing Standards - Legal Frameworks for Data Protection and Privacy - Audit Planning and Reporting in the Cloud - Outsourcing and Vendor Management - Standards, Policies, and Auditing in AWS - Standards, Policies, and Auditing in Azure - Standards, Policies, and Auditing in GCP

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EC-COUNCIL 312-40 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Forensic Investigation in Cloud	8%	- Cloud forensics principles and challenges - Evidence collection and preservation techniques - Legal and compliance aspects of cloud forensics - Analysis of cloud logs and artifacts
Topic 2: Business Continuity and Disaster Recovery	8%	- Backup and recovery strategies - Disaster recovery testing and maintenance - BC/DR planning for cloud environments - High availability and fault tolerance design
Topic 3: Application Security in Cloud	12%	- Cloud application architecture and threats - Secure software development lifecycle (SSDLC) in cloud - Application security controls for major cloud platforms - API security and authentication mechanisms
Topic 4: Governance, Risk Management, and Compliance (GRC)	8%	- Risk assessment and management methodologies - Audit and assurance processes - Cloud governance frameworks and policies - Compliance with regulations and standards
Topic 5: Incident Response in Cloud	8%	- Preparation, detection, and containment strategies - Incident response lifecycle in cloud - Cloud-specific incident handling challenges - Eradication and recovery procedures
Topic 6: Cloud Penetration Testing	8%	- Penetration testing frameworks and methodologies - Testing IaaS, PaaS, and SaaS environments - Exploiting cloud-specific vulnerabilities - Reporting and remediation of findings
Topic 7: Introduction to Cloud Security	8%	- Cloud security principles and challenges - Cloud computing concepts and service models - Cloud deployment models and security considerations
Topic 8: Security Operations in Cloud	8%	- Threat detection and response methodologies - Vulnerability management and patch management - Security information and event management (SIEM) in cloud - Cloud security monitoring and logging
Topic 9: Data Security in Cloud	12%	- Key management and cloud storage security - Data privacy and compliance requirements - Data classification and protection strategies - Encryption techniques for data at rest and in transit
Topic 10: Platform and Infrastructure Security in Cloud	12%	- Network security in cloud environments - Virtualization and container security - Cloud architecture and components security - Security controls for AWS, Azure, GCP infrastructure
Topic 11: Standards, Policies, and Legal Issues in Cloud	8%	- International standards: ISO 27017, ISO 27018, NIST - Industry-specific regulations: HIPAA, PCI DSS, GDPR - Cloud service level agreements (SLAs) and liability - Data sovereignty and legal jurisdiction

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EC-COUNCIL EC-Council Certified Cloud Security Engineer (CCSE) Sample Questions (Q162-Q167):

NEW QUESTION # 162

SecureSoft IT Pvt. Ltd. is an IT company located in Charlotte, North Carolina, that develops software for the healthcare industry. The organization generates a tremendous amount of unorganized data such as video and audio files. Kurt recently joined SecureSoft IT Pvt. Ltd. as a cloud security engineer. He manages the organizational data using NoSQL databases. Based on the given information, which of the following data are being generated by Kurt's organization?

- A. Metadata
- B. Semi-Structured Data
- **C. Unstructured Data**
- D. Structured Data

Answer: C

Explanation:

The data generated by SecureSoft IT Pvt. Ltd., which includes video and audio files, is categorized as unstructured data. This is because it does not follow a specific format or structure that can be easily stored in traditional relational databases.

Understanding Unstructured Data: Unstructured data refers to information that either does not have a pre-defined data model or is not organized in a pre-defined manner. It includes formats like audio, video, and social media postings.

Role of NoSQL Databases: NoSQL databases are designed to store, manage, and retrieve unstructured data efficiently. They can handle a variety of data models, including document, graph, key-value, and wide-column stores.

Management of Data: As a cloud security engineer, Kurt's role involves managing this unstructured data using NoSQL databases, which provide the flexibility required for such diverse data types.

Significance in Healthcare: In the healthcare industry, unstructured data is particularly prevalent due to the vast amounts of patient information, medical records, imaging files, and other forms of data that do not fit neatly into tabular forms.

Reference:

Unstructured data is a common challenge in the IT sector, especially in fields like healthcare that generate large volumes of complex data. NoSQL databases offer a solution to manage this data effectively, providing scalability and flexibility. SecureSoft IT Pvt. Ltd.'s use of NoSQL databases aligns with industry practices for handling unstructured data efficiently.

NEW QUESTION # 163

YourTrustedCloud is a cloud service provider that provides cloud-based services to several multinational companies. The organization adheres to various frameworks and standards. YourTrustedCloud stores and processes credit card and payment-related data in the cloud environment and ensures the security of transactions and the credit card processing system. Based on the given information, which of the following standards does YourTrustedCloud adhere to?

- **A. PCI DSS**
- B. FERPA
- C. CLOUD
- D. GLBA

Answer: A

Explanation:

YourTrustedCloud, as a cloud service provider that stores and processes credit card and payment-related data, must adhere to the Payment Card Industry Data Security Standard (PCI DSS).

* PCI DSS Overview: PCI DSS is a set of security standards established to safeguard payment card information and prevent unauthorized access. It was developed by major credit card companies to create a secure environment for processing, storing, and transmitting cardholder data¹.

* Compliance Requirements: To comply with PCI DSS, YourTrustedCloud must handle customer credit card data securely from start to finish, store data securely as outlined by the 12 security domains of the PCI DSS standard (such as encryption, ongoing monitoring, and security testing of access to cardholder data), and validate that required security controls are in place on an annual basis².

* Significance for Cloud Providers: PCI DSS applies to any entity that stores, processes, or transmits payment card data, including cloud service providers like YourTrustedCloud. The standard ensures that cardholder data is appropriately protected via technical, operational, physical, and security safeguards³.

References:

* PCI Security Standards Council: PCI DSS Cloud Computing Guidelines¹.

* Cloud Security Alliance: Understanding PCI DSS: A Guide to the Payment Card Industry Data Security Standard².

* CloudCim.com: Payment Card Industry Data Security Standard⁴.

NEW QUESTION # 164

Scott Herman works as a cloud security engineer in an IT company. His organization has deployed a 3-tier web application in the same Google Cloud Virtual Private Cloud. Each tier (web interface (UI), API, and database) is scaled independently of others. Scott Herman obtained a requirement that the network traffic should always access the database using the API and any request coming directly from the web interface to the database should not be allowed. How should Scott configure the network with minimal steps?

- A. By adding tags to each tier and setting up firewall rules to allow the desired traffic flow
- B. By adding each tier to a different subnetwork
- C. By adding tags to each tier and setting up routes to allow the desired traffic flow
- D. By setting up software-based firewalls on individual VMs

Answer: A

Explanation:

By adding tags to each tier of the 3-tier application and then configuring firewall rules, Scott can control the traffic flow effectively. He can create firewall rules that allow traffic from the API tier to the database tier while denying any direct traffic from the web interface (UI) to the database tier.

This approach provides a straightforward and efficient way to enforce the required access controls with minimal configuration steps.

NEW QUESTION # 165

The organization TechWorld Ltd. used cloud for its business. It operates from an EU country (Poland and Greece). Currently, the organization gathers and processes the data of only EU users. Once, the organization experienced a severe security breach, resulting in loss of critical user data. In such a case, along with its cloud service provider, the organization should be held responsible for non-compliance or breaches. Under which cloud compliance framework will the company and cloud provider be penalized?

- A. GDPR
- B. NIST
- C. ITAR
- D. HIPAA

Answer: C

Explanation:

GDPR: The General Data Protection Regulation (GDPR) is the primary law regulating how companies protect EU citizens' personal data¹.

Applicability: GDPR applies to all organizations operating within the EU, as well as organizations outside of the EU that offer goods or services to customers or businesses in the EU¹.

Data Breaches: In the event of a data breach, organizations are required to notify the appropriate data protection authority within 72 hours, if feasible, after becoming aware of the breach².

Penalties: Organizations that do not comply with GDPR can face hefty fines. For serious infringements, GDPR states that companies can be fined up to 4% of their annual global turnover or €20 million (whichever is greater)¹.

Responsibility: Both the data controller and the processor will be held responsible for not adhering to the GDPR rules, which includes security breaches resulting in the loss of user data¹.

Reference:

GDPR Info on fines and penalties¹.

EDPB Guidelines on personal data breach notification under GDPR².

NEW QUESTION # 166

Elaine Grey has been working as a senior cloud security engineer in an IT company that develops software and applications related to the financial sector. Her organization would like to extend its storage capacity and automate disaster recovery workflows using a VMware private cloud. Which of the following storage options can be used by Elaine in the VMware virtualization environment to connect a VM directly to a LUN and access it from SAN?

- A. Object Storage
- B. Ephemeral Storage
- C. File Storage
- **D. Raw Storage**

Answer: D

Explanation:

Raw Storage (also known as raw device mapping) allows a virtual machine (VM) in a VMware environment to connect directly to a Logical Unit Number (LUN) on a Storage Area Network (SAN). This enables the VM to access the storage directly, providing better performance and flexibility for applications that require high I/O operations, making it suitable for extending storage capacity and managing disaster recovery workflows in a VMware virtualization environment.

NEW QUESTION # 167

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