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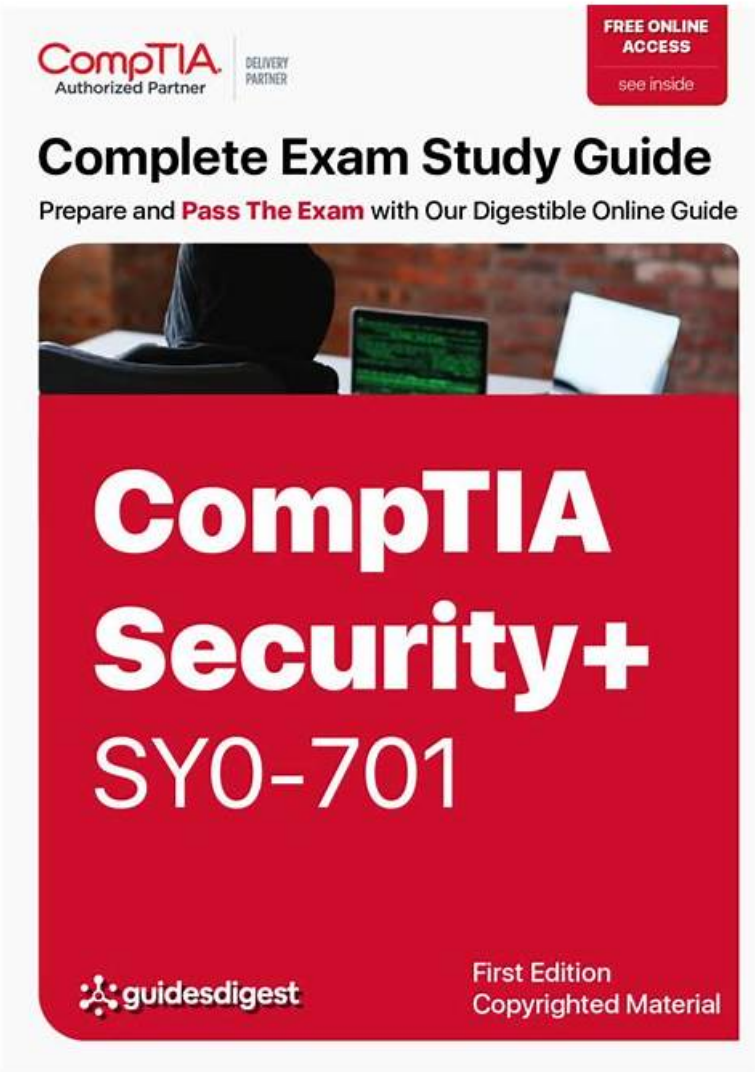

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CompTIA SY0-701 Exam Syllabus Topics:

Topic	Details

Topic 1	• Security Program Management and Oversight: Finally, this topic discusses elements of effective security governance, the risk management process, third-party risk assessment, and management processes. Additionally, the topic focuses on security compliance requirements, types and purposes of audits and assessments, and implementing security awareness practices in various scenarios.
Topic 2	• General Security Concepts: This topic covers various types of security controls, fundamental security concepts, the importance of change management processes in security, and the significance of using suitable cryptographic solutions.
Topic 3	• Security Operations: This topic delves into applying common security techniques to computing resources, addressing security implications of proper hardware, software, and data asset management, managing vulnerabilities effectively, and explaining security alerting and monitoring concepts. It also discusses enhancing enterprise capabilities for security, implementing identity and access management, and utilizing automation and orchestration for secure operations.
Topic 4	• Security Architecture: Here, you'll learn about security implications across different architecture models, applying security principles to secure enterprise infrastructure in scenarios, and comparing data protection concepts and strategies. The topic also delves into the importance of resilience and recovery in security architecture.
Topic 5	• Threats, Vulnerabilities, and Mitigations: In this topic, you'll find discussions comparing threat actors and motivations, explaining common threat vectors and attack surfaces, and outlining different types of vulnerabilities. Moreover, the topic focuses on analyzing indicators of malicious activity in scenarios and exploring mitigation techniques used to secure enterprises against threats.

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CompTIA Security+ Certification Exam Sample Questions (Q313-Q318):

NEW QUESTION # 313
Which of the following methods to secure credit card data is best to use when a requirement is to see only the last four numbers on a credit card?

- A. Tokenization
- B. Encryption
- C. Hashing
- D. Masking

Answer: D

Explanation:
Masking is a method to secure credit card data that involves replacing some or all of the digits with symbols, such as asterisks, dashes, or Xs, while leaving some of the original digits visible.
Masking is best to use when a requirement is to see only the last four numbers on a credit card, as it can prevent unauthorized access to the full card number, while still allowing identification and verification of the cardholder. Masking does not alter the original data, unlike encryption, hashing, or tokenization, which use algorithms to transform the data into different formats.

NEW QUESTION # 314
A company's end users are reporting that they are unable to reach external websites. After reviewing the performance data for the DNS severs, the analyst discovers that the CPU, disk, and memory usage are minimal, but the network interface is flooded with inbound traffic. Network logs show only a small number of DNS queries sent to this server. Which of the following best describes what the security analyst is seeing?

- A. Reflected denial of service
- B. On-path resource consumption
- C. Concurrent session usage
- D. Secure DNS cryptographic downgrade

Answer: A

Explanation:
A reflected denial of service (RDoS) attack is a type of DDoS attack that uses spoofed source IP addresses to send requests to a third-party server, which then sends responses to the victim server. The attacker exploits the difference in size between the request and the response, which can amplify the amount of traffic sent to the victim server. The attacker also hides their identity by using the victim's IP address as the source. A RDoS attack can target DNS servers by sending forged DNS queries that generate large DNS responses. This can flood the network interface of the DNS server and prevent it from serving legitimate requests from end users.
References: CompTIA Security+ Study Guide: Exam SY0-701, 9th Edition, page 215-216 1

NEW QUESTION # 315
A security administrator needs to reduce the attack surface in the company's data centers. Which of the following should the security administrator do to complete this task?

- A. Define Group Policy on the servers.
- B. Configure the servers for high availability.
- C. Implement a honeynet.
- D. Upgrade end-of-support operating systems.

Answer: D

Explanation:
Upgrading end-of-support operating systemsisone of the most effective ways to reduce the attack surface. Unsupported OS versionsno longer receive security patches, making them prime targets for attackers.Removing outdated softwareensures that known vulnerabilities cannot be exploited.
* A (honeynet)is used for threat analysis, not reducing the attack surface.
* B (Group Policy)helps enforce security policies butdoes not address outdated vulnerabilities.
* C (High availability)focuses on uptime, not security risk reduction.

NEW QUESTION # 316
Which of the following is the best way to provide secure remote access for employees while minimizing the exposure of a company's internal network?

- A. LDAP
- B. FTP
- C. RADIUS
- D. VPN

Answer: D

Explanation:
A VPN (Virtual Private Network) is a secure method to provide employees with remote access to a company's network. It encrypts data, protecting it from interception and ensuring secure communication between the user and the internal network.Reference: Security+ SY0-701 Course Content, Security+ SY0-601 Book.

NEW QUESTION # 317
A systems administrator is looking for a low-cost application-hosting solution that is cloud-based. Which of the following meets

these requirements?

- A. SDN
- B. Type 1 hypervisor
- C. SD-WAN
- D. Serverless framework

Answer: D

Explanation:
Explanation
A serverless framework is a cloud-based application-hosting solution that meets the requirements of low-cost and cloud-based. A serverless framework is a type of cloud computing service that allows developers to run applications without managing or provisioning any servers. The cloud provider handles the server-side infrastructure, such as scaling, load balancing, security, and maintenance, and charges the developer only for the resources consumed by the application. A serverless framework enables developers to focus on the application logic and functionality, and reduces the operational costs and complexity of hosting applications.
Some examples of serverless frameworks are AWS Lambda, Azure Functions, and Google Cloud Functions.
A type 1 hypervisor, SD-WAN, and SDN are not cloud-based application-hosting solutions that meet the requirements of low-cost and cloud-based. A type 1 hypervisor is a software layer that runs directly on the hardware and creates multiple virtual machines that can run different operating systems and applications. A type 1 hypervisor is not a cloud-based service, but a virtualization technology that can be used to create private or hybrid clouds. A type 1 hypervisor also requires the developer to manage and provision the servers and the virtual machines, which can increase the operational costs and complexity of hosting applications. Some examples of type 1 hypervisors are VMware ESXi, Microsoft Hyper-V, and Citrix XenServer.
SD-WAN (Software-Defined Wide Area Network) is a network architecture that uses software to dynamically route traffic across multiple WAN connections, such as broadband, LTE, or MPLS. SD-WAN is not a cloud-based service, but a network optimization technology that can improve the performance, reliability, and security of WAN connections. SD-WAN can be used to connect remote sites or users to cloud-based applications, but it does not host the applications itself. Some examples of SD-WAN vendors are Cisco, VMware, and Fortinet.
SDN (Software-Defined Networking) is a network architecture that decouples the control plane from the data plane, and uses a centralized controller to programmatically manage and configure the network devices and traffic flows. SDN is not a cloud-based service, but a network automation technology that can enhance the scalability, flexibility, and efficiency of the network. SDN can be used to create virtual networks or network functions that can support cloud-based applications, but it does not host the applications itself. Some examples of SDN vendors are OpenFlow, OpenDaylight, and OpenStack.
References = CompTIA Security+ SY0-701 Certification Study Guide, page 264-265; Professor Messer's CompTIA SY0-701 Security+ Training Course, video 3.1 - Cloud and Virtualization, 7:40 - 10:00; [Serverless Framework]; [Type 1 Hypervisor]; [SD-WAN]; [SDN].

NEW QUESTION # 318
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