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## CompTIA SY0-701 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
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### **CompTIA Security+ Certification Exam Sample Questions (Q167-Q172):**

#### **NEW QUESTION # 167**

A security professional discovers a folder containing an employee's personal information on the enterprise's shared drive. Which of the following best describes the data type the security professional should use to identify organizational policies and standards concerning the storage of employees' personal information?

- A. Legal
- B. Intellectual property
- **C. Privacy**
- D. Financial

**Answer: C**

Explanation:

Detailed Privacy data includes information such as Personally Identifiable Information (PII), which relates to employees' or customers' personal data. Organizations often maintain policies and standards specifically addressing how such sensitive information should be handled. Reference: CompTIA Security+ SY0-701 Study Guide, Domain 5: Security Program Management, Section: "Data Types and Classifications".

#### **NEW QUESTION # 168**

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. Serverless framework**
- C. SD-WAN
- D. Type 1 hypervisor

**Answer: B**

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.

Reference = 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 # 169

A company wants to implement MFA. Which of the following enables the additional factor while using a smart card?

- A. SMS
- B. PIN
- C. User ID
- D. Hardware token

#### Answer: B

Explanation:

When using a smart card as part of MFA, the additional factor is typically a PIN. The smart card provides something you have and the PIN provides something you know, which together constitutes two factors of authentication.

### NEW QUESTION # 170

A company wants to ensure secure remote access to its internal network. The company has only one public IP and would like to avoid making any changes to the current network setup. Which of the following solutions would best accomplish this goal?

- A. Reverse proxy
- B. Perimeter network
- C. PAT
- D. IPSec VPN

#### Answer: D

### NEW QUESTION # 171

A security administrator receives multiple reports about the same suspicious email. Which of the following is the most likely reason for the malicious email's continued delivery?

- A. Employees are forwarding personal emails to company email addresses.
- B. Employees are using shadow IT solutions for email.
- C. Employees are flagging legitimate emails as spam
- D. Information from reported emails is not being used to tune email filtering tools.

#### Answer: D

Explanation:

If email filtering tools are not tuned based on reported emails, malicious emails will continue to bypass filters. Effective filtering depends on feedback and updating rules with real threat data.

Flagging legitimate emails (A) would cause false positives, shadow IT (C) and forwarding personal emails (D) are less relevant to the filtering bypass.

Tuning email filters is part of continuous Security Operations processes#6:Chapter 14 CompTIA Security+ Study Guide#.

## NEW QUESTION # 172

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