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**WGU D488 CYBERSECURITY ARCHITECTURE & ENGINEERING OBJECTIVE ASSESSMENT
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1. A private subnet must use a _____ located in a public subnet in order to connect to the Internet. - ANSWER ✓ Network Address Translation (NAT) Gateway
2. In a cloud environment, the _____ is a Virtual Private Cloud component used to allow communication between the VPC and the Internet. - ANSWER ✓ Internet Gateway
3. Methods of Defending against DDoS Attacks - ANSWER ✓ 1. Rate Limiting
2. Web Application Firewall (WAF)
3. Blackhole Routing
4. Cloud Service Providers (CSP)
5. DDoS Mitigation Software/Appliance
4. Can be used to reduce the amount of throughput available to the server or service that may be experiencing a DDoS attack. - ANSWER ✓ Rate Limiting
5. A device or virtual appliance which provides multiple security services in a single solution. It can be a useful mechanism for the protection of branch

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q96-Q101):

NEW QUESTION # 96

A small start-up is setting up its first network, and it needs to ensure that its network security is adequate. The start-up is aware of the latest cybersecurity threats and the need for strong security measures. In addition to network security, the start-up wants to ensure that it has a disaster recovery plan in place in case of any unexpected events.

Which approach will meet the needs of the start-up?

- A. Bootstrapping
- B. Virtual private network (VPN)
- C. Packet filtering
- D. Intrusion detection system (IDS)

Answer: D

Explanation:

The correct answer is A - Intrusion detection system (IDS).

As outlined in WGU Cybersecurity Architecture and Engineering (KFO1 / D488), an IDS helps monitor network traffic for suspicious activities and security threats, making it a fundamental component of securing a network for a start-up. It enables early detection of attacks, contributing both to cybersecurity defense and incident response efforts.

Packet filtering (B) is a limited firewall technique and not as comprehensive. Bootstrapping (C) is a startup or initialization process, not a security measure. VPN (D) secures remote access but does not inherently monitor for threats.

Reference Extract from Study Guide:

"An intrusion detection system (IDS) monitors network traffic for suspicious activity and potential threats, enhancing a network's security posture and supporting incident detection."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Network Security Monitoring and Defense Here are your fully verified and properly formatted answers for this final batch, based on WGU Cybersecurity Architecture and Engineering (KFO1 / D488) official materials:

NEW QUESTION # 97

In which type of network topology are the networked devices connected to a central device like a hub or switch?

- A. Bus
- B. Mesh
- C. Star
- D. Ring

Answer: C

Explanation:

* In a star network topology, each network device is connected to a central device like a hub or a switch.

* This central device acts as a repeater for data flow.

* The other options:

* Bus topology uses a single central cable.

* Mesh topology involves each device being connected to every other device.

* Ring topology connects devices in a circular fashion.

* Therefore, the star topology correctly describes a network where devices connect to a central hub or switch.

References:

- * "Data and Computer Communications" by William Stallings, which explains different network topologies.
- * "Network+ Guide to Networks" by Jill West, Tamara Dean, and Jean Andrews, which covers network configurations.

NEW QUESTION # 98

The cybersecurity analyst at a hardware company conducted a vulnerability assessment to identify potential security risks to the organization and discovered multiple vulnerabilities on the company's webpage. The analyst then provided the results to the Chief Information Security Officer (CISO), who then decided to decommission the website and create a new page with increased security controls.

- **A. Avoid**
- B. Accept
- C. Mitigate
- D. Transfer

Answer: A

Explanation:

Risk avoidance involves eliminating the source of risk altogether. In this case, the organization chose to decommission the vulnerable system instead of patching or compensating - a clear example of avoiding risk.

NIST SP 800-30 Rev. 1 (Risk Assessment Guide):

"Risk avoidance involves not performing the action that gives rise to the risk or eliminating the risk cause or consequence." This strategy is ideal when the cost or complexity of mitigation is too high or when risk to the business is unacceptable.

#WGU Course Alignment:

Domain: Security Models and Design

Topic: Understand and apply risk response strategies (avoid, accept, transfer, mitigate)

NEW QUESTION # 99

Which risk management strategy will ensure the secure configuration and deployment of a new supply chain management system and prevent identity theft?

- A. Use of a strict firewall policy to restrict access to the system's server
- B. Configuration of the system to disable all USB ports on all workstations
- **C. Implementation of multifactor authentication for all user accounts**
- D. Implementation of regular vulnerability scans and patch management

Answer: C

Explanation:

Multi-Factor Authentication (MFA) mitigates identity theft by requiring two or more factors (something you know, have, or are) for access. This significantly raises the difficulty of account compromise, especially in environments with sensitive supply chain data.

NIST SP 800-63B (Digital Identity Guidelines):

"MFA significantly reduces the likelihood of credential compromise and is strongly recommended for all user accounts accessing critical systems." While patching and firewalls are important, MFA directly addresses identity theft prevention.

#WGU Course Alignment:

Domain: Access Control and Identity Management

Topic: Implement MFA for secure user authentication

NEW QUESTION # 100

In which generation were computers first built with transistors?

- A. Third generation
- B. First generation
- C. Fourth generation
- **D. Second generation**

Answer: D

Explanation:

The second generation of computers (1956-1963) saw the introduction of transistors, which replaced vacuum tubes used in the first generation. Transistors allowed computers to be smaller, faster, more reliable, and more energy-efficient compared to their predecessors.

NEW QUESTION # 101

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