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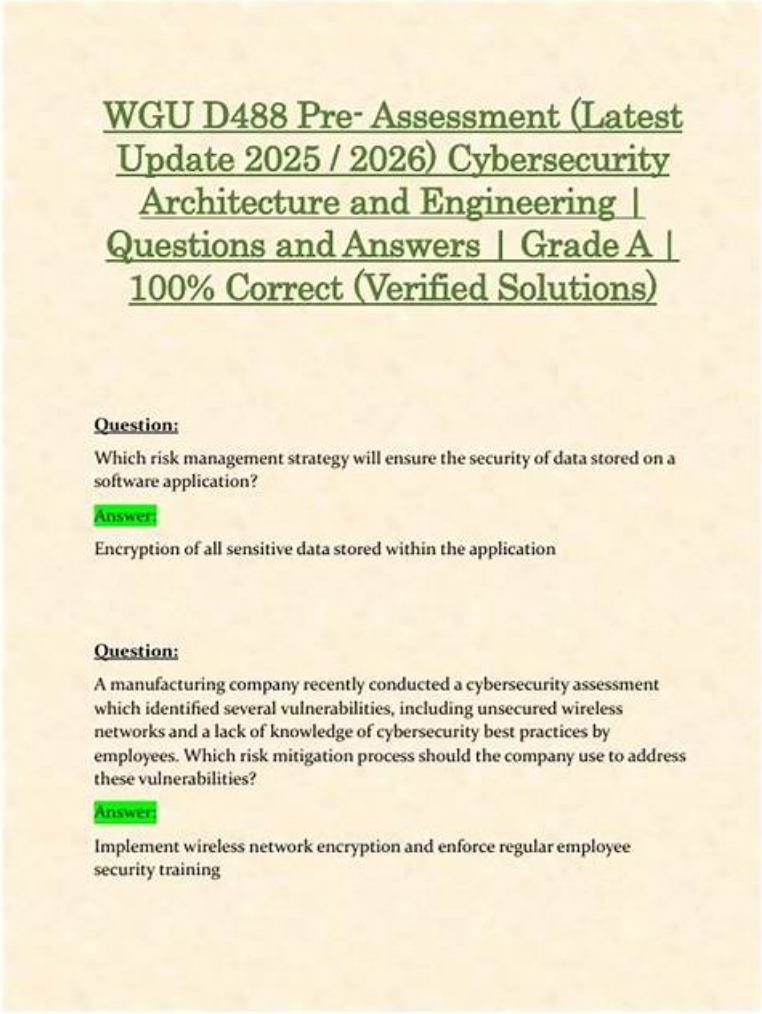
WGU D488 Pre- Assessment (Latest Update 2025 / 2026) Cybersecurity Architecture and Engineering | Questions and Answers | Grade A | 100% Correct (Verified Solutions)

Question:

Which risk management strategy will ensure the security of data stored on a software application?

Answer:

Encryption of all sensitive data stored within the application

Question:

A manufacturing company recently conducted a cybersecurity assessment which identified several vulnerabilities, including unsecured wireless networks and a lack of knowledge of cybersecurity best practices by employees. Which risk mitigation process should the company use to address these vulnerabilities?

Answer:

Implement wireless network encryption and enforce regular employee security training

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q87-Q92):

NEW QUESTION # 87
A software development company is concerned about the potential risks associated with exploits that target vulnerabilities in the Linux operating system used by the company's servers. The company has decided to implement hardening techniques and endpoint security controls to mitigate the risk.
Which hardening technique will meet the needs of this company?

- A. Conducting regular security assessments and penetration testing
- B. Implementing a host-based intrusion detection and prevention system
- C. Enforcing strict access control policies for all users
- D. Implementing shell restrictions

Answer: D

Explanation:
The correct answer is C - Implementing shell restrictions.
According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), shell restrictions on Linux systems can prevent users (or attackers) from executing unauthorized commands, significantly reducing the exploitation risk on Linux servers.
Host-based IDPS (A) detects attacks but does not directly harden the OS. Access control (B) andassessments /penetration testing (D) are important but do not focus specifically on securing the Linux shell environment.
Reference Extract from Study Guide:
"Implementing shell restrictions on Linux systems minimizes the attack surface by limiting the ability of users and processes to execute unauthorized commands."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Linux System Hardening Techniques

NEW QUESTION # 88
An IT organization has seen a surge of ransomware and Trojan horse attacks recently.
Which action should the security team recommend to protect the IT infrastructure from commodity malware threats?

- A. Installing endpoint protection software
- B. Rerouting suspicious communications to a remote machine
- C. Implementing a two-factor authentication system
- D. Installing a firewall to identify malicious traffic

Answer: A

Explanation:
The correct answer is D - Installing endpoint protection software.
WGU Cybersecurity Architecture and Engineering (KFO1 / D488) teaches that endpoint protection (including antivirus, anti-malware, and endpoint detection and response) is critical for detecting,blocking, and removing commodity malware like ransomware and Trojans.
Firewalls (A) help with perimeter security but don't directly block malware on endpoints. Rerouting communications (B) is not a standard protection method. Two-factor authentication (C) secures logins but does not protect systems from malware infection.
Reference Extract from Study Guide:
"Endpoint protection software defends individual systems against malware threats by detecting, blocking, and removing malicious files and processes."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Endpoint Security Solutions

NEW QUESTION # 89
What is a function of a compiler?

- A. It translates a source code and creates an executable program that may be run at a later time.
- B. It takes a program written in a high-level language and converts it to a different high-level language program.
- C. It takes the most recent instruction and translates it as machine language.
- D. It gathers together multiple executable programs and translates them into a readable format.

Answer: A

Explanation:
A compiler translates high-level programming language code into machine code, creating an executable program.
* Process: The compiler goes through various phases such as parsing, semantic analysis, and optimization to produce the final machine code.
* Purpose: This machine code can be executed by the computer's processor at a later time without the need for the original source code.
References
* "Programming Language Pragmatics" by Michael L. Scott
* "Modern Compiler Implementation in C" by Andrew W. Appel

NEW QUESTION # 90
A government agency is required to comply with the Federal Information Security Modernization Act (FISMA), which establishes security requirements for federal information systems. The agency needs to secure its external network, which connects to the internet and is used by employees, contractors, and other authorized personnel.
Which security control will secure the external network and protect against unauthorized access?

- A. Intrusion detection and prevention
- B. Network segmentation
- C. Firewall
- D. Access controls

Answer: C

Explanation:
The correct answer is B - Firewall.
According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), firewalls are critical for securing external network perimeters by filtering incoming and outgoing traffic based on predefined security rules. This control is a foundational requirement under FISMA to prevent unauthorized access.
IDS/IPS (A) monitor and detect attacks but are secondary to establishing the initial network boundary. Access controls (C) manage user permissions inside a system. Network segmentation (D) divides internal networks but does not protect the external boundary.
Reference Extract from Study Guide:
"Firewalls are the first line of defense for securing external networks, providing traffic filtering to prevent unauthorized access, aligning with FISMA compliance requirements."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Network Security Fundamentals

NEW QUESTION # 91
After a recent security assessment, it was discovered that many company devices have unnecessary ports opened to the network.
What should the company configure to fix this?

- A. Web application firewall
- B. Intrusion detection system
- C. Intrusion prevention system
- D. Device hardening

Answer: D

Explanation:
The correct answer is C - Device hardening.
WGU Cybersecurity Architecture and Engineering (KFO1 / D488) teaches that device hardening involves reducing vulnerabilities by disabling unnecessary services, ports, and features. Closing unneeded network ports minimizes the attack surface and strengthens device security.
An intrusion prevention system (A) monitors and blocks threats but does not close ports directly. A web application firewall (B) protects web apps, not device configurations. An intrusion detection system (D) only alerts but does not proactively secure devices.
Reference Extract from Study Guide:
"Device hardening minimizes vulnerabilities by disabling unnecessary services and ports, securing the system against network-based attacks."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Device Hardening and Secure Configuration

NEW QUESTION # 92
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