

Exam Network-and-Security-Foundation Objectives - Network-and-Security-Foundation Practice Questions

**NETWORK AND SECURITY
FOUNDATION 2024/2025 OBJECTIVE
ASSESSMENT VERIFIED QUESTIONS
AND ANSWERS 100% GRADED A+**

Basic elements of a fiber-optic communication plan - (correct answer) fiber, optical light source, photosensitive detection, efficient optical connection

Advantages of fiber optics - (correct answer) bandwidth
immunity to electrostatic interference
elimination of crosstalk
lower signal attenuation
lower cost
safety
no corrosion problem
security

Commonly used wavelengths in fiber-optic systems - (correct answer) 850 nm
1310 nm
1550 nm
1600-1625 nm

What part of an optical fiber carries the light - (correct answer) the core of an optical fiber carries the light

What is a measure of fibers light acceptance - (correct answer) numerical aperture

typical core/cladding sizes in microns for multimode fiber - (correct answer) 50/125um and 62.5/125um

Typical core size for single fiber mode - (correct answer) 7 to 10 um

what are the two key distance limiting parameters in fiber optic transmission - (correct answer) attenuation and dispersion

four factors that contribute to attenuation - (correct answer) scattering, absorption, macrobending, microbending

three types of dispersion - (correct answer) modal, chromatic, polarization mode

two light sources used in fiber optic - (correct answer) diode laser
light emitting diode

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WGU Network-and-Security-Foundation Sample Questions (Q62-Q67):

NEW QUESTION # 62

A start-up company wants to build its computer network by starting with the base-level resources offered by a cloud service. In this way, the company won't have to buy physical hardware but can still have complete control over operating systems and other software.

Which cloud service model should be used?

- **A. Infrastructure as a Service (IaaS)**
- B. Software as a Service (SaaS)
- C. Function as a Service (FaaS)
- D. Platform as a Service (PaaS)

Answer: A

Explanation:

Infrastructure as a Service (IaaS) provides virtualized computing resources, including virtual machines, storage, and networking, while allowing users full control over operating systems and applications. Examples include AWS EC2 and Google Compute Engine.

* SaaS provides ready-to-use applications (e.g., Google Docs).

* FaaS runs code in response to events (e.g., AWS Lambda).

* PaaS provides development environments but not full infrastructure control.

NEW QUESTION # 63

A company is specifically worried about buffer overflow attacks.

Which strategy should be used as a mitigation against this type of attack?

- **A. Detect code vulnerabilities**
- B. Use server-side validation
- C. Disable caching
- D. Implement intrusion protection software

Answer: A

Explanation:

Detecting code vulnerabilities through regular security audits, code reviews, and static analysis tools helps prevent buffer overflow attacks. Developers should implement bounds checking, memory-safe programming languages, and input validation to mitigate risks.

* Disabling caching does not prevent buffer overflow attacks.

* Server-side validation helps with input security but does not directly address buffer overflows.

* Intrusion protection software may detect attacks but does not prevent vulnerabilities in code.

NEW QUESTION # 64

A host is already set up with an operating system. An administrator wants to install a hypervisor atop the operating system to allow for setting up virtual machines.

Which hypervisor should be used?

- A. Type 1
- B. Proprietary
- **C. Type 2**
- D. Open source

Answer: C

Explanation:

A Type 2 hypervisor (hosted hypervisor) runs on top of an existing operating system and allows for the creation of virtual machines. Examples include VMware Workstation and Oracle VirtualBox.

- * Type 1 hypervisors run directly on hardware without an OS (e.g., VMware ESXi, Microsoft Hyper-V).
- * Open-source and proprietary describe licensing models, not hypervisor types.

NEW QUESTION # 65

An attacker uses login data from a data breach to attempt to access another web service. Which malicious attack strategy is represented in the scenario?

- **A. Credential stuffing**
- B. Session hijacking
- C. Social engineering
- D. Brute-force attack

Answer: A

Explanation:

Credential stuffing is a cyberattack where attackers use stolen username-password combinations from one breach to try logging into other services, exploiting users who reuse passwords. Automated tools test multiple credentials against multiple sites, leading to unauthorized access.

- * Brute-force attack systematically tries all possible passwords but does not use breached data.
- * Session hijacking intercepts active user sessions but does not use stolen credentials.
- * Social engineering manipulates users into revealing credentials, rather than using breached data.

NEW QUESTION # 66

Which layer of the OSI model includes the ICMP?

- **A. Network**
- B. Transport
- C. Session
- D. Application

Answer: A

Explanation:

The Network layer (Layer 3 of the OSI model) includes the Internet Control Message Protocol (ICMP), which is used for network diagnostics (e.g., ping command). ICMP helps in error reporting and network troubleshooting.

- * Transport layer handles reliable data delivery (e.g., TCP, UDP).
- * Session layer manages communication sessions.
- * Application layer provides end-user services.

NEW QUESTION # 67

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