

F2.4.3 - Key – Trojans Backdoors and RATS

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Seat 99 (Grade level 13)

Cyber Capstone

0. What is the primary purpose of a while loop in shell scripting?
- A. Executes a set of commands as long as a specified condition is false.
 - B. Executes a set of commands as long as a specified condition is true.
 - C. Iterates over a sequence of numbers.
 - D. Executes a set of commands until a specified condition is met.

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1. What is a Trojan horse in the context of cybersecurity?
- A. A type of computer virus that spreads rapidly through networks.
 - B. Malicious software disguised as harmless or legitimate software.
 - C. A security tool used to protect against malware attacks.
 - D. A software program designed to enhance computer performance.

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2. What is the significance of the term "Trojan Horse" in cybersecurity?
- A. It refers to a fictional character in Greek mythology.
 - B. It symbolizes deceptive tactics used by hackers to gain unauthorized access.
 - C. It represents a type of encryption algorithm used in malware.
 - D. It signifies a type of computer hardware vulnerability.

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3. How do Trojan horses typically enter a victim's computer?
- A. Through direct hacking into the system's firewall.
 - B. By exploiting vulnerabilities in the operating system.
 - C. Via email attachments or free downloads.
 - D. Through automatic software updates.

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4. What distinguishes a Trojan horse from a computer virus?

- A. A Trojan horse can self-replicate without user assistance.
- B. A Trojan horse is designed to encrypt files on a computer.
- C. A Trojan horse requires user assistance to propagate.
- D. Trojan horses are always detected by antivirus software.

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5. What is a backdoor in the context of cybersecurity?

- A. A type of malware that steals sensitive information.
- B. A means to access a system or data bypassing normal security controls.
- C. A computer program that replicates itself and spreads to other computers.
- D. A hardware device used to block unauthorized network traffic.

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6. What is a Remote Access Trojan (RAT)?

- A. A type of virus that spreads via infected email attachments.
- B. A software program designed to enhance remote network performance.
- C. A Trojan horse with a backdoor allowing for remote control of the infected host.
- D. A security tool used to scan for vulnerabilities in a network.

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7. What can a hacker do once a Remote Access Trojan (RAT) is installed on a victim's computer?

- A. Control the computer remotely and perform various actions such as viewing files and taking screenshots.
- B. Install antivirus software to protect the computer from future attacks.
- C. Encrypt the computer's files and demand a ransom for decryption.
- D. Redirect the computer's internet traffic to malicious websites.

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8. What is the purpose of a Downloader Trojan?

- A. To perform distributed denial-of-service (DDoS) attacks on networks.
- B. To intercept and send SMS messages from mobile devices.
- C. To remotely control an infected computer's webcam.
- D. To download and install additional malware onto an already infected computer.

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9. How does a Distributed Denial of Service (DDoS) Trojan function?

- A. By encrypting the victim's files and demanding a ransom.
- B. By intercepting and sending SMS messages from infected devices.
- C. By flooding a network with traffic from infected computers to overwhelm and disrupt its normal functioning.
- D. By remotely controlling the infected computer's microphone.

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10. What is a recommended defense against Trojan horse attacks?

- A. Download and run unknown software to test its functionality.
- B. Disable antivirus software to avoid conflicts with legitimate programs.
- C. Regularly update antivirus and security software, and avoid downloading or running unknown or untrusted software.
- D. Share sensitive information via email attachments to trusted contacts.

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