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Certified Ethical Hacker v11 Exam





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QUESTION 1

Gerard, a disgruntled ex-employee of Sunglass IT Solutions, targets this organization to perform sophisticated attacks and bring down its reputation in the market. To launch the attacks process, he performed DNS footprinting to gather information about DNS servers and to identify the hosts connected in the target network. He used an automated tool that can retrieve information about DNS zone data including DNS domain names, computer names, IP addresses, DNS records, and network Who is records. He further exploited this information to launch other sophisticated attacks. What is the tool employed by Gerard in the above scenario?

- A. Knative
- B. zANTI
- C. Towelroot
- D. Bluto

Correct Answer: D

QUESTION 2

When a normal TCP connection starts, a destination host receives a SYN (synchronize/start) packet from a source host and sends back a SYN/ACK (synchronize acknowledge). The destination host must then hear an ACK (acknowledge) of the SYN/ACK before the connection is established. This is referred to as the "TCP three-way handshake." While waiting for the ACK to the SYN ACK, a connection queue of finite size on the destination host keeps track of connections waiting to be completed. This queue typically empties quickly since the ACK is expected to arrive a few milliseconds after the SYN ACK.

How would an attacker exploit this design by launching TCP SYN attack?

- A. Attacker generates TCP SYN packets with random destination addresses towards a victim host
- B. Attacker floods TCP SYN packets with random source addresses towards a victim host
- C. Attacker generates TCP ACK packets with random source addresses towards a victim host
- D. Attacker generates TCP RST packets with random source addresses towards a victim host

Correct Answer: B

QUESTION 3

What is the way to decide how a packet will move from an untrusted outside host to a protected inside that is behind a firewall, which permits the hacker to determine which ports are open and if the packets can pass through the packet-filtering of the firewall?

- A. Session hijacking
- B. Firewalking
- C. Man-in-the middle attack



D. Network sniffing

Correct Answer: B

QUESTION 4

Stephen, an attacker, targeted the industrial control systems of an organization. He generated a fraudulent email with a malicious attachment and sent it to employees of the target organization. An employee who manages the sales software of the operational plant opened the fraudulent email and clicked on the malicious attachment. This resulted in the malicious attachment being downloaded and malware being injected into the sales software maintained in the victim's system. Further, the malware propagated itself to other networked systems, finally damaging the industrial automation components. What is the attack technique used by Stephen to damage the industrial systems?

- A. Spear-phishing attack
- B. SMishing attack
- C. Reconnaissance attack
- D. HMI-based attack

Correct Answer: A

QUESTION 5

Suppose your company has just passed a security risk assessment exercise. The results display that the risk of the breach in the main company application is 50%. Security staff has taken some measures and implemented the necessary controls. After that, another security risk assessment was performed showing that risk has decreased to 10%. The risk threshold for the application is 20%. Which of the following risk decisions will be the best for the project in terms of its successful continuation with the most business profit?

- A. Accept the risk
- B. Introduce more controls to bring risk to 0%
- C. Mitigate the risk
- D. Avoid the risk

Correct Answer: A

QUESTION 6

Gavin owns a white-hat firm and is performing a website security audit for one of his clients. He begins by running a scan which looks for common misconfigurations and outdated software versions. Which of the following tools is he most likely using?

- A. Nikto
- B. Nmap
- C. Metasploit



D. Armitage

Correct Answer: B

QUESTION 7

Firewalk has just completed the second phase (the scanning phase) and a technician receives the output shown below. What conclusions can be drawn based on these scan results?

TCP port 21 no response

TCP port 22 no response

TCP port 23 Time-to-live exceeded

- A. The lack of response from ports 21 and 22 indicate that those services are not running on the destination server
- B. The scan on port 23 was able to make a connection to the destination host prompting the firewall to respond with a TTL error
- C. The scan on port 23 passed through the filtering device. This indicates that port 23 was not blocked at the firewall
- D. The firewall itself is blocking ports 21 through 23 and a service is listening on port 23 of the target host

Correct Answer: C

QUESTION 8

Which regulation defines security and privacy controls for Federal information systems and organizations?

- A. HIPAA
- B. EU Safe Harbor
- C. PCI-DSS
- D. NIST-800-53

Correct Answer: D

QUESTION 9

Session splicing is an IDS evasion technique in which an attacker delivers data in multiple, small sized packets to the target computer, making it very difficult for an IDS to detect the attack signatures. Which tool can be used to perform session splicing attacks?

- A. tcpsplice
- B. Burp
- C. Hydra



D. Whisker

Correct Answer: D

QUESTION 10

Clark is a professional hacker. He created and configured multiple domains pointing to the same host to switch quickly between the domains and avoid detection. Identify the behavior of the adversary In the above scenario.

- A. use of command-line interface
- B. Data staging
- C. Unspecified proxy activities
- D. Use of DNS tunneling

Correct Answer: C

A proxy server acts as a gateway between you and therefore the internet. It's an intermediary server separating end users from the websites they browse. Proxy servers provide varying levels of functionality, security, and privacy counting on your use case, needs, or company policy. If you're employing a proxy server, internet traffic flows through the proxy server on its thanks to the address you requested. A proxy server is essentially a computer on the web with its own IP address that your computer knows. once you send an internet request, your request goes to the proxy server first. The proxy server then makes your web request on your behalf, collects the response from the online server, and forwards you the online page data so you'll see the page in your browser.

QUESTION 11

Miley, a professional hacker, decided to attack a target organization's network. To perform the attack, she used a tool to send fake ARP messages over the target network to link her MAC address with the target system's IP address. By performing this, Miley received messages directed to the victim's MAC address and further used the tool to intercept, steal, modify, and block sensitive communication to the target system. What is the tool employed by Miley to perform the above attack?

- A. Gobbler
- B. KDerpNSpoof
- C. BetterCAP
- D. Wireshark

Correct Answer: C

QUESTION 12

An attacker with access to the inside network of a small company launches a successful STP manipulation attack. What will he do next?

- A. He will create a SPAN entry on the spoofed root bridge and redirect traffic to his computer.



- B. He will activate OSPF on the spoofed root bridge.
- C. He will repeat this action so that it escalates to a DoS attack.
- D. He will repeat the same attack against all L2 switches of the network.

Correct Answer: A

QUESTION 13

A penetration tester is performing the footprinting process and is reviewing publicly available information about an organization by using the Google search engine.

Which of the following advanced operators would allow the pen tester to restrict the search to the organization's web domain?

- A. [allinurl:]
- B. [location:]
- C. [site:]
- D. [link:]

Correct Answer: C

QUESTION 14

Ethical hacker Jane Smith is attempting to perform an SQL injection attack. She wants to test the response time of a true or false response and wants to use a second command to determine whether the database will return true or false results for user IDs. Which two SQL Injection types would give her the results she is looking for?

- A. Out of band and boolean-based
- B. Time-based and union-based
- C. union-based and error-based
- D. Time-based and boolean-based

Correct Answer: C

Union based SQL injection allows an attacker to extract information from the database by extending the results returned by the first query. The Union operator can only be used if the original/new queries have an equivalent structure. Error-based SQL injection is an In-band injection technique where the error output from the SQL database is employed to control the info inside the database. In In-band injection, the attacker uses an equivalent channel for both attacks and collect data from the database.

QUESTION 15

John, a disgruntled ex-employee of an organization, contacted a professional hacker to exploit the organization. In the



attack process, the professional hacker installed a scanner on a machine belonging to one of the vktims and scanned several machines on the same network to identify vulnerabilities to perform further exploitation. What is the type of vulnerability assessment tool employed by John in the above scenario?

- A. Proxy scanner
- B. Agent-based scanner
- C. Network-based scanner
- D. Cluster scanner

Correct Answer: B

Knowing when to include agents into your vulnerability management processes isn't an easy decision. Below are common use cases for agent-based vulnerability scanning to assist you build out your combined scanning strategy.

Intermittent or Irregular Connectivity: Vulnerability management teams are now tasked with scanning devices that access the company network remotely using public or home-based Wi-Fi connections. These connections are often unreliable and intermittent leading to missed network-based scans. Fortunately, the scanning frequency of agents doesn't require a network connection. The agent detects when the device is back online, sending scan data when it's ready to communicate with the VM platform.

Connecting Non-Corporate Devices to Corporate Networks: With the increased use of private devices, company networks are more exposed to malware and infections thanks to limited IT and security teams' control and visibility. Agent-based scanning gives security teams insight into weaknesses on non-corporate endpoints, keeping them informed about professional hacker is potential attack vectors in order that they can take appropriate action.

Endpoints Residing Outside of Company Networks: Whether company-issued or BYOD, remote assets frequently hook up with the web outside of traditional network bounds. An agent that resides on remote endpoints conducts regular, authenticated scans checking out system changes and unpatched software. The results are then sent back to the VM platform and combined with other scan results for review, prioritization, and mitigation planning.

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