EC-Council

Exam Questions 312-50v12

Certified Ethical Hacker Exam (CEHv12)

NEW QUESTION 1
- (Exam Topic 3)
Juliet, a security researcher in an organization, was tasked with checking for the authenticity of images to be used in the organization's magazines. She used these images as a search query and tracked the original source and details of the images, which included photographs, profile pictures, and memes. Which of the following footprinting techniques did Rachel use to finish her task?

A. Reverse image search
B. Meta search engines
C. Advanced image search
D. Google advanced search

Answer: C

NEW QUESTION 2
- (Exam Topic 3)
Harper, a software engineer, is developing an email application. To ensure the confidentiality of email messages. Harper uses a symmetric-key block cipher having a classical 12- or 16-round Feistel network with a block size of 64 bits for encryption, which includes large 8 x 32-bit S-boxes (S1, S2, S3, S4) based on bent functions, modular addition and subtraction, key-dependent rotation, and XOR operations. This cipher also uses a masking key(Km1)and a rotation key (Kr1) for performing its functions. What is the algorithm employed by Harper to secure the email messages?

A. CAST-128
B. AES
C. GOST block cipher
D. DES

Answer: A

NEW QUESTION 3
- (Exam Topic 3)
A post-breach forensic investigation revealed that a known vulnerability in Apache Struts was to blame for the Equifax data breach that affected 143 million customers. A fix was available from the software vendor for several months prior 10 the Intrusion. This Is likely a failure in which of the following security processes?

A. vendor risk management
B. Security awareness training
C. Secure deployment lifecycle
D. Patch management

Answer: D

Explanation:
Patch management is that the method that helps acquire, test and install multiple patches (code changes) on existing applications and software tools on a pc, enabling systems to remain updated on existing patches and determining that patches are the suitable ones. Managing patches so becomes simple and simple. Patch Management is usually done by software system firms as a part of their internal efforts to mend problems with the various versions of software system programs and also to assist analyze existing software system programs and discover any potential lack of security features or different upgrades.
Software patches help fix those problems that exist and are detected solely once the software's initial unharness. Patches mostly concern security while there are some patches that concern the particular practicality of programs as well.

NEW QUESTION 4
- (Exam Topic 3)
Calvin, a grey-hat hacker, targets a web application that has design flaws in its authentication mechanism. He enumerates usernames from the login form of the web application, which requests users to feed data and specifies the incorrect field in case of invalid credentials. Later, Calvin uses this information to perform social engineering.
Which of the following design flaws in the authentication mechanism is exploited by Calvin?

A. Insecure transmission of credentials
B. Verbose failure messages
C. User impersonation
D. Password reset mechanism

Answer: D

NEW QUESTION 5
- (Exam Topic 3)
Louis, a professional hacker, had used specialized tools or search engines to encrypt all his browsing activity and navigate anonymously to obtain sensitive/hidden information about official government or federal databases. After gathering the Information, he successfully performed an attack on the target government organization without being traced. Which of the following techniques is described in the above scenario?

A. Dark web footprinting
B. VoIP footpnnting
C. VPN footprinting
D. website footprinting

Answer: A

Explanation:
The deep web is the layer of the online cyberspace that consists of web pages and content that are hidden and unindexed.

NEW QUESTION 6
- (Exam Topic 3)
Richard, an attacker, targets an MNC In this process, he uses a footprinting technique to gather as much information as possible. Using this technique, he gathers domain information such as the target domain name, contact details of its owner, expiry date, and creation date. With this information, he creates a map of the organization's network and misleads domain owners with social engineering to obtain internal details of its network. What type of footprinting technique is employed by Richard?

A. VPN footprinting
B. Email footprinting
C. VoIP footprinting
D. Whois footprinting

Answer: B

NEW QUESTION 7
- (Exam Topic 3)
An attacker decided to crack the passwords used by industrial control systems. In this process, he employed a loop strategy to recover these passwords. He used one character at a time to check whether the first character entered is correct; if so, he continued the loop for consecutive characters. If not, he terminated the loop. Furthermore, the attacker checked how much time the device took to finish one complete password authentication process, through which he deduced how many characters entered are correct.
What is the attack technique employed by the attacker to crack the passwords of the industrial control systems?

A. Side-channel attack
B. Denial-of-service attack
C. HMI-based attack
D. Buffer overflow attack

Answer: C

NEW QUESTION 8
- (Exam Topic 3)
Kate dropped her phone and subsequently encountered an issue with the phone's internal speaker. Thus, she is using the phone's loudspeaker for phone calls and other activities. Bob, an attacker, takes advantage of this vulnerability and secretly exploits the hardware of Kate's phone so that he can monitor the loudspeaker's output from data sources such as voice assistants, multimedia messages, and audio files by using a malicious app to breach speech privacy. What is the type of attack Bob performed on Kate in the above scenario?

A. Man-in-the-disk attack
B. aLTEr attack
C. SIM card attack
D. Spearphone attack

Answer: D

NEW QUESTION 9
- (Exam Topic 3)
Attacker Simon targeted the communication network of an organization and disabled the security controls of NetNTLMvl by modifying the values of LMCompatibilityLevel, NTLMMinClientSec, and RestrictSendingNTLMTraffic. He then extracted all the non-network logon tokens from all the active processes to masquerade as a legitimate user to launch further attacks. What is the type of attack performed by Simon?

A. Internal monologue attack
B. Combinator attack
C. Rainbow table attack
D. Dictionary attack

Answer: A

NEW QUESTION 10
- (Exam Topic 3)
A group of hackers were roaming around a bank office building in a city, driving a luxury car. They were using hacking tools on their laptop with the intention to find a free-access wireless network. What is this hacking process known as?

A. GPS mapping
B. Spectrum analysis
C. Wardriving
D. Wireless sniffing

Answer: C

NEW QUESTION 11
- (Exam Topic 3)
John, a professional hacker, targeted CyberSol Inc., an MNC. He decided to discover the IoT devices connected in the target network that are using default credentials and are vulnerable to various hijacking attacks. For this purpose, he used an automated tool to scan the target network for specific types of IoT devices and detect whether they are using the default, factory-set credentials. What is the tool employed by John in the above scenario?

A. IoTSeeker
B. IoT Inspector
C. AT&T IoT Platform

D. Azure IoT Central

Answer: A

NEW QUESTION 12
- (Exam Topic 3)
An unauthorized individual enters a building following an employee through the employee entrance after the lunch rush. What type of breach has the individual just performed?

A. Reverse Social Engineering
B. Tailgating
C. Piggybacking
D. Announced

Answer: B

Explanation:
· Identifying operating systems, services, protocols and devices,
· Collecting unencrypted information about usernames and passwords,
· Capturing network traffic for further analysis
are passive network sniffing methods since with the help of them we only receive information and do not make any changes to the target network. When modifying and replaying the captured network traffic, we are already starting to make changes and actively interact with it.

NEW QUESTION 13
- (Exam Topic 3)
Jude, a pen tester, examined a network from a hacker's perspective to identify exploits and vulnerabilities accessible to the outside world by using devices such as firewalls, routers, and servers. In this process, he also estimated the threat of network security attacks and determined the level of security of the corporate network.
What is the type of vulnerability assessment that Jude performed on the organization?

A. External assessment
B. Passive assessment
C. Host-based assessment
D. Application assessment

Answer: A

NEW QUESTION 14
- (Exam Topic 2)
Ethical backer jane Doe is attempting to crack the password of the head of the it department of ABC company. She Is utilizing a rainbow table and notices upon entering a password that extra characters are added to the password after submitting. What countermeasure is the company using to protect against rainbow tables?

A. Password key hashing
B. Password salting
C. Password hashing
D. Account lockout

Answer: B

Explanation:
Passwords are usually delineated as "hashed and salted". salting is simply the addition of a unique, random string of characters renowned solely to the site to every parole before it's hashed, typically this "salt" is placed in front of each password.
The salt value needs to be hold on by the site, which means typically sites use the same salt for each parole. This makes it less effective than if individual salts are used.
The use of unique salts means that common passwords shared by multiple users – like "123456" or "password" – aren't revealed revealed when one such hashed password is known – because despite the passwords being the same the immediately and hashed values are not.
Large salts also protect against certain methods of attack on hashes, including rainbow tables or logs of hashed passwords previously broken.
Both hashing and salting may be repeated more than once to increase the issue in breaking the security.

NEW QUESTION 15
- (Exam Topic 2)
Which of the following steps for risk assessment methodology refers to vulnerability identification?

A. Determines if any flaws exist in systems, policies, or procedures
B. Assigns values to risk probabilities; Impact values.
C. Determines risk probability that vulnerability will be exploited (Hig
D. Medium, Low)
E. Identifies sources of harm to an IT syste
F. (Natural, Huma
G. Environmental)

Answer: C

NEW QUESTION 16
- (Exam Topic 2)
In the field of cryptanalysis, what is meant by a "rubber-hose" attack?

A. Attempting to decrypt cipher text by making logical assumptions about the contents of the original plain text.
B. Extraction of cryptographic secrets through coercion or torture.
C. Forcing the targeted key stream through a hardware-accelerated device such as an ASIC.
D. A backdoor placed into a cryptographic algorithm by its creator.

Answer: B

NEW QUESTION 17
- (Exam Topic 2)
Johnson, an attacker, performed online research for the contact details of reputed cybersecurity firms. He found the contact number of sibertech.org and dialed the number, claiming himself to represent a technical support team from a vendor. He warned that a specific server is about to be compromised and requested sibertech.org to follow the provided instructions. Consequently, he prompted the victim to execute unusual commands and install malicious files, which were then used to collect and pass critical Information to Johnson's machine. What is the social engineering technique Steve employed in the above scenario?

A. Quid pro quo
B. Diversion theft
C. Elicitation
D. Phishing

Answer: A

Explanation:
https://www.eccouncil.org/what-is-social-engineering/
This Social Engineering scam involves an exchange of information that can benefit both the victim and the trickster. Scammers would make the prey believe that a fair exchange will be present between both sides, but in reality, only the fraudster stands to benefit, leaving the victim hanging on to nothing. An example of a Quid Pro Quo is a scammer pretending to be an IT support technician. The con artist asks for the login credentials of the company's computer saying that the company is going to receive technical support in return. Once the victim has provided the credentials, the scammer now has control over the company's computer and may possibly load malware or steal personal information that can be a motive to commit identity theft.
"A quid pro quo attack (aka something for something" attack) is a variant of baiting. Instead of baiting a target with the promise of a good, a quid pro quo attack promises a service or a benefit based on the execution of a specific action."
https://resources.infosecinstitute.com/topic/common-social-engineering-attacks/#:~:text=A%20quid%20pro%20

NEW QUESTION 18
- (Exam Topic 2)
Fingerprinting an Operating System helps a cracker because:

A. It defines exactly what software you have installed
B. It opens a security-delayed window based on the port being scanned
C. It doesn't depend on the patches that have been applied to fix existing security holes
D. It informs the cracker of which vulnerabilities he may be able to exploit on your system

Answer: D

NEW QUESTION 19
- (Exam Topic 2)
Daniel Is a professional hacker who Is attempting to perform an SQL injection attack on a target website. www.movlescope.com. During this process, he encountered an IDS that detects SQL Injection attempts based on predefined signatures. To evade any comparison statement, he attempted placing characters such as ''or '1'='1' In any bask injection statement such as "or 1=1." Identify the evasion technique used by Daniel in the above scenario.

A. Null byte
B. IP fragmentation
C. Char encoding
D. Variation

Answer: D

Explanation:
One may append the comment "–" operator along with the String for the username and whole avoid executing the password segment of the SQL query.
Everything when the — operator would be considered as comment and not dead.
To launch such an attack, the value passed for name could be 'OR '1'='1' ; —Statement = "SELECT * FROM 'CustomerDB' WHERE 'name' = ' "+ userName + " ' AND 'password' = ' " + passwd + " ' ; "
Statement = "SELECT * FROM 'CustomerDB' WHERE 'name' = ' ' OR '1'='1';– + " ' AND 'password' = ' " + passwd + " ' ; "
All the records from the customer database would be listed.
Yet, another variation of the SQL Injection Attack can be conducted in dbms systems that allow multiple SQL injection statements. Here, we will also create use of the vulnerability in sure dbms whereby a user provided field isn't strongly used in or isn't checked for sort constraints.
This could take place once a numeric field is to be employed in a SQL statement; but, the programmer makes no checks to validate that the user supplied input is numeric.
Variation is an evasion technique whereby the attacker can easily evade any comparison statement. The attacker does this by placing characters such as "' or '1'='1'" in any basic injection statement such as "or 1=1" or with other accepted SQL comments.
Evasion Technique: Variation Variation is an evasion technique whereby the attacker can easily evade any comparison statement. The attacker does this by placing characters such as "' or '1'='1'" in any basic injection statement such as "or 1=1" or with other accepted SQL comments. The SQL interprets this as a comparison between two strings or characters instead of two numeric values. As the evaluation of two strings yields a true statement, similarly, the evaluation of two numeric values yields a true statement, thus rendering the evaluation of the complete query unaffected. It is also possible to write many other signatures; thus, there are infinite possibilities of variation as well. The main aim of the attacker is to have a WHERE statement that is always evaluated as "true" so that any mathematical or string comparison can be used, where the SQL can perform the same.

NEW QUESTION 20
- (Exam Topic 2)
How does a denial-of-service attack work?

A. A hacker prevents a legitimate user (or group of users) from accessing a service
B. A hacker uses every character, word, or letter he or she can think of to defeat authentication
C. A hacker tries to decipher a password by using a system, which subsequently crashes the network
D. A hacker attempts to imitate a legitimate user by confusing a computer or even another person

Answer: A

NEW QUESTION 21
- (Exam Topic 2)
Bob was recently hired by a medical company after it experienced a major cyber security breach. Many patients are complaining that their personal medical records are fully exposed on the Internet and someone can find them with a simple Google search. Bob's boss is very worried because of regulations that protect those data. Which of the following regulations is mostly violated?

A. HIPPA/PHI
B. Pll
C. PCIDSS
D. ISO 2002

Answer: A

Explanation:
PHI stands for Protected Health info. The HIPAA Privacy Rule provides federal protections for private health info held by lined entities and provides patients an array of rights with regard to that info. under HIPAA phi is considered to be any identifiable health info that's used, maintained, stored, or transmitted by a HIPAA-covered entity – a healthcare provider, health plan or health insurer, or a aid clearinghouse – or a business associate of a HIPAA-covered entity, in relation to the availability of aid or payment for aid services.
It is not only past and current medical info that's considered letter under HIPAA Rules, however also future info concerning medical conditions or physical and mental health related to the provision of care or payment for care. phi is health info in any kind, together with physical records, electronic records, or spoken info. Therefore, letter includes health records, medical histories, lab check results, and medical bills. basically, all health info is considered letter once it includes individual identifiers. Demographic info is additionally thought of phi underneath HIPAA Rules, as square measure several common identifiers like patient names, Social Security numbers, Driver's license numbers, insurance details, and birth dates, once they square measure connected with health info.
The eighteen identifiers that create health info letter are:
- Names
- Dates, except year
- phonephone numbers
- Geographic information
- FAX numbers
- Social Security numbers
- Email addresses
- case history numbers
- Account numbers
- Health arrange beneficiary numbers
- Certificate/license numbers
- Vehicle identifiers and serial numbers together with license plates
- Web URLs
- Device identifiers and serial numbers
- net protocol addresses
- Full face photos and comparable pictures
- Biometric identifiers (i.e. retinal scan, fingerprints)
- Any distinctive identifying variety or code
One or a lot of of those identifiers turns health info into letter, and phi HIPAA Privacy Rule restrictions can then apply that limit uses and disclosures of the data. HIPAA lined entities and their business associates will ought to guarantee applicable technical, physical, and body safeguards are enforced to make sure the confidentiality, integrity, and availability of phi as stipulated within the HIPAA Security Rule.

NEW QUESTION 22
- (Exam Topic 2)
What is the BEST alternative if you discover that a rootkit has been installed on one of your computers?

A. Copy the system files from a known good system
B. Perform a trap and trace
C. Delete the files and try to determine the source
D. Reload from a previous backup
E. Reload from known good media

Answer: E

NEW QUESTION 23
- (Exam Topic 2)
Attacker Lauren has gained the credentials of an organization's internal server system, and she was often logging in during irregular times to monitor the network activities. The organization was skeptical about the login times and appointed security professional Robert to determine the issue. Robert analyzed the compromised device to find incident details such as the type of attack, its severity, target, impact, method of propagation, and vulnerabilities exploited. What is the incident handling and response (IH&R) phase, in which Robert has determined these issues?

A. Preparation
B. Eradication

C. Incident recording and assignment
D. Incident triage

Answer: D

Explanation:
Triage is that the initial post-detection incident response method any responder can execute to open an event or false positive. Structuring an efficient and correct triage method can reduce analyst fatigue, reduce time to reply to and right incidents, and ensure that solely valid alerts are promoted to "investigation or incident" status.
Every part of the triage method should be performed with urgency, as each second counts once in the inside of a crisis. However, triage responders face the intense challenge of filtering an unwieldy input supply into a condensed trickle of events. Here are some suggestions for expediting analysis before knowledge is validated:

⟩ Organization: reduce redundant analysis by developing a workflow that may assign tasks to responders.
Avoid sharing an email box or email alias between multiple responders. Instead use a workflow tool, like those in security orchestration, automation, and response (SOAR) solutions, to assign tasks. Implement a method to re-assign or reject tasks that are out of scope for triage.

⟩ Correlation: Use a tool like a security info and even management (SIEM) to mix similar events. Link potentially connected events into one useful event.

⟩ Data Enrichment: automate common queries your responders perform daily, like reverse DNS lookups, threat intelligence lookups, and IP/domain mapping. Add this knowledge to the event record or make it simply accessible.
Moving full speed ahead is that the thanks to get through the initial sorting method however a a lot of detailed, measured approach is necessary throughout event verification. Presenting a robust case to be accurately evaluated by your security operations center (SOC) or cyber incident response team (CIRT) analysts is key. Here are many tips for the verification:

⟩ Adjacent Data: Check the data adjacent to the event. for example, if an end has a virus signature hit, look to visualize if there's proof the virus is running before career for more response metrics.

⟩ Intelligence Review: understand the context around the intelligence. simply because an ip address was
flagged as a part of a botnet last week doesn't mean it still is an element of a botnet today.

⟩ Initial Priority: Align with operational incident priorities and classify incidents appropriately. ensure the right level of effort is applied to every incident.

⟩ Cross Analysis: look for and analyze potentially shared keys, like science addresses or domain names, across multiple knowledge sources for higher knowledge acurity.

NEW QUESTION 24
- (Exam Topic 2)
Within the context of Computer Security, which of the following statements describes Social Engineering best?

A. Social Engineering is the act of publicly disclosing information
B. Social Engineering is the means put in place by human resource to perform time accounting
C. Social Engineering is the act of getting needed information from a person rather than breaking into a system
D. Social Engineering is a training program within sociology studies

Answer: C

NEW QUESTION 25
- (Exam Topic 1)
Joseph was the Web site administrator for the Mason Insurance in New York, who's main Web site was located at www.masonins.com. Joseph uses his laptop computer regularly to administer the Web site. One night, Joseph received an urgent phone call from his friend, Smith. According to Smith, the main Mason Insurance web site had been vandalized! All of its normal content was removed and replaced with an attacker's message "Hacker Message: You are dead! Freaks!" From his office, which was directly connected to Mason Insurance's internal network, Joseph surfed to the Web site using his laptop. In his browser, the Web site looked completely intact.
No changes were apparent. Joseph called a friend of his at his home to help troubleshoot the problem. The Web site appeared defaced when his friend visited using his DSL connection. So, while Smith and his friend could see the defaced page, Joseph saw the intact Mason Insurance web site. To help make sense of this problem, Joseph decided to access the Web site using hisdial-up ISP. He disconnected his laptop from the corporate internal network and used his modem to dial up the same ISP used by Smith. After his modem connected, he quickly typed www.masonins.com in his browser to reveal the following web page:

```
H@cker Mess@ge:
Y0u @re De@d! Fre@ks!
```

After seeing the defaced Web site, he disconnected his dial-up line, reconnected to the internal network, and used Secure Shell (SSH) to log in directly to the Web server. He ran Tripwire against the entire Web site, and determined that every system file and all the Web content on the server were intact. How did the attacker accomplish this hack?

A. ARP spoofing
B. SQL injection
C. DNS poisoning
D. Routing table injection

Answer: C

NEW QUESTION 26
- (Exam Topic 1)
You need to deploy a new web-based software package for your organization. The package requires three separate servers and needs to be available on the Internet. What is the recommended architecture in terms of server placement?

A. All three servers need to be placed internally
B. A web server facing the Internet, an application server on the internal network, a database server on the internal network
C. A web server and the database server facing the Internet, an application server on the internal network
D. All three servers need to face the Internet so that they can communicate between themselves

Answer: B

NEW QUESTION 27
- (Exam Topic 1)
Based on the following extract from the log of a compromised machine, what is the hacker really trying to steal?

A. har.txt
B. SAM file
C. wwwroot
D. Repair file

Answer: B

NEW QUESTION 28
- (Exam Topic 1)
While using your bank's online servicing you notice the following string in the URL bar:
"http: // www. MyPersonalBank. com/ account?id=368940911028389&Damount=10980&Camount=21" You observe that if you modify the Damount & Camount
values and submit the request, that data on the web
page reflects the changes.
Which type of vulnerability is present on this site?

A. Cookie Tampering
B. SQL Injection
C. Web Parameter Tampering
D. XSS Reflection

Answer: C

NEW QUESTION 29
- (Exam Topic 1)
The "Gray-box testing" methodology enforces what kind of restriction?

A. Only the external operation of a system is accessible to the tester.
B. The internal operation of a system in only partly accessible to the tester.
C. Only the internal operation of a system is known to the tester.
D. The internal operation of a system is completely known to the tester.

Answer: D

Explanation:
White-box testing (also known as clear box testing, glass box testing, transparent box testing, and structural testing) is a method of software testing that tests internal structures or workings of an application, as opposed to its functionality (i.e. black-box testing). In white-box testing, an internal perspective of the system, as well as programming skills, are used to design test cases. The tester chooses inputs to exercise paths through the code and determine the expected outputs. This is analogous to testing nodes in a circuit, e.g. in-circuit testing (ICT). White-box testing can be applied at the unit, integration and system levels of the software testing process. Although traditional testers tended to think of white-box testing as being done at the unit level, it is used for integration and system testing more frequently today. It can test paths within a unit, paths between units during integration, and between subsystems during a system-level test. Though this method of test design can uncover many errors or problems, it has the potential to miss unimplemented parts of the specification or missing requirements. Where white-box testing is design-driven,[1] that is, driven exclusively by agreed specifications of how each component of the software is required to behave (as in DO-178C and ISO 26262 processes) then white-box test techniques can accomplish assessment for unimplemented or missing requirements.
White-box test design techniques include the following code coverage criteria:
· Control flow testing
· Data flow testing
· Branch testing
· Statement coverage
· Decision coverage
· Modified condition/decision coverage
· Prime path testing
· Path testing

NEW QUESTION 30
- (Exam Topic 1)
What tool can crack Windows SMB passwords simply by listening to network traffic?

A. This is not possible
B. Netbus
C. NTFSDOS
D. L0phtcrack

Answer: D

NEW QUESTION 31
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