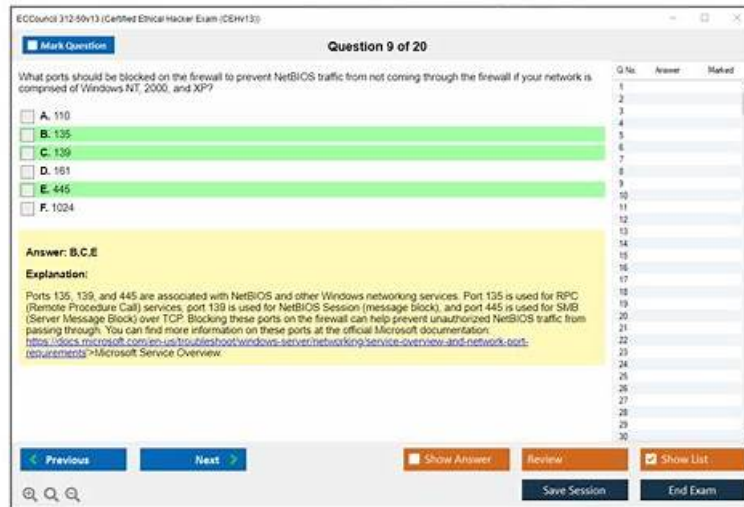


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ECCouncil Certified Ethical Hacker Exam (CEHv13) Sample Questions (Q430-Q435):

NEW QUESTION # 430

Robin, an attacker, is attempting to bypass the firewalls of an organization through the DNS tunneling method in order to exfiltrate data. He is using the NSTX tool for bypassing the firewalls. On which of the following ports should Robin run the NSTX tool?

- A. Port 53
- B. Port 23
- C. Port 50
- D. Port 80

Answer: A

Explanation:

DNS uses Port 53 which is almost always open on systems, firewalls, and clients to transmit DNS queries.

Instead of the more familiar Transmission Control Protocol (TCP) these queries use User Datagram Protocol (UDP) due to its low-latency, bandwidth and resource usage compared TCP-equivalent queries. UDP has no error or flow-control capabilities, nor does it have any integrity checking to make sure the info arrived intact.

How is internet use (browsing, apps, chat etc) so reliable then? If the UDP DNS query fails (it's a best-effort protocol after all) within the first instance, most systems will retry variety of times and only after multiple failures, potentially switch to TCP before trying again; TCP is additionally used if the DNS query exceeds the restrictions of the UDP datagram size - typically 512 bytes for DNS but can depend upon system settings.

Figure 1 below illustrates the essential process of how DNS operates: the client sends a question string (for example, mail.google[.]com during this case) with a particular type - typically A for a number address. I've skipped the part whereby intermediate DNS systems may need to establish where '.com' exists, before checking out where 'google[.]com' are often found, and so on.



Many worms and scanners are created to seek out and exploit systems running telnet. Given these facts, it's really no surprise that telnet is usually seen on the highest Ten Target Ports list. Several of the vulnerabilities of telnet are fixed. They require only an upgrade to the foremost current version of the telnet Daemon or OS upgrade. As is usually the case, this upgrade has not been performed on variety of devices. This might flow from to the very fact that a lot of systems administrators and users don't fully understand the risks involved using telnet. Unfortunately, the sole solution for a few of telnet's vulnerabilities is to completely discontinue its use. The well-liked method of mitigating all of telnet's vulnerabilities is replacing it with alternate protocols like ssh. Ssh is capable of providing many of an equivalent functions as telnet and a number of other additional services typical handled by other protocols like FTP and Xwindows. Ssh does still have several drawbacks to beat before it can completely replace telnet. It's typically only supported on newer equipment. It requires processor and memory resources to perform the info encryption and decryption. It also requires greater bandwidth than telnet thanks to the encryption of the info. This paper was written to assist clarify how dangerous the utilization of telnet are often and to supply solutions to alleviate the main known threats so as to enhance the general security of the web. Once a reputation is resolved to an IP, caching also helps: the resolved name-to-IP is usually cached on the local system (and possibly on intermediate DNS servers) for a period of your time. Subsequent queries for an equivalent name from an equivalent client then don't leave the local system until said cache expires. Of course, once the IP address of the remote service is understood, applications can use that information to enable other TCP-based protocols, like HTTP, to try to their actual work, for instance ensuring internet cat GIFs are often reliably shared together with your colleagues.

So, beat all, a couple of dozen extra UDP DNS queries from an organization's network would be fairly inconspicuous and will leave a malicious payload to beacon bent an adversary; commands could even be received to the requesting application for processing with little difficulty.

NEW QUESTION # 431

In an attempt to damage the reputation of a competitor organization, Hailey, a professional hacker, gathers a list of employee and client email addresses and other related information by using various search engines, social networking sites, and web spidering tools. In this process, she also uses an automated tool to gather a list of words from the target website to further perform a brute-force attack on the previously gathered email addresses.

What is the tool used by Hailey for gathering a list of words from the target website?

- A. Orbot
- **B. CeWL**
- C. Shadowsocks
- D. Psiphon

Answer: B

Explanation:

Gathering Wordlist from the Target Website An attacker uses the CeWL tool to gather a list of words from the target website and perform a brute-force attack on the email addresses gathered earlier. # Cewl www.

NEW QUESTION # 432

There are multiple cloud deployment options depending on how isolated a customer's resources are from those of other customers. Shared environments share the costs and allow each customer to enjoy lower operations expenses. One solution is for a customer to join with a group of users or organizations to share a cloud environment. What is this cloud deployment option called?

- A. Community
- B. Public
- C. Private
- D. Hybrid

Answer: A

Explanation:

The purpose of this idea is to permit multiple customers to figure on joint projects and applications that belong to the community, where it's necessary to possess a centralized clouds infrastructure. In other words, Community Cloud may be a distributed infrastructure that solves the precise problems with business sectors by integrating the services provided by differing types of clouds solutions.

The communities involved in these projects, like tenders, business organizations, and research companies, specialise in similar issues in their cloud interactions. Their shared interests may include concepts and policies associated with security and compliance considerations, and therefore the goals of the project also .

Community Cloud computing facilitates its users to spot and analyze their business demands better.

Community Clouds could also be hosted during a data center, owned by one among the tenants, or by a third- party cloud services provider and may be either on-site or off-site.

Community Cloud Examples and Use Cases

Cloud providers have developed Community Cloud offerings, and a few organizations are already seeing the advantages . the subsequent list shows a number of the most scenarios of the Community Cloud model that's beneficial to the participating organizations.

* Multiple governmental departments that perform transactions with each other can have their processing systems on shared infrastructure. This setup makes it cost-effective to the tenants, and may also reduce their data traffic.

Benefits of Community Clouds

Community Cloud provides benefits to organizations within the community, individually also as collectively.

Organizations don't need to worry about the safety concerns linked with Public Cloud due to the closed user group.

This recent cloud computing model has great potential for businesses seeking cost-effective cloud services to collaborate on joint projects, because it comes with multiple advantages.

Openness and Impartiality

Community Clouds are open systems, and that they remove the dependency organizations wear cloud service providers.

Organizations are able to do many benefits while avoiding the disadvantages of both public and personal clouds.

Flexibility and Scalability

* Ensures compatibility among each of its users, allowing them to switch properties consistent with their individual use cases. They also enable companies to interact with their remote employees and support the utilization of various devices, be it a smartphone or a tablet. This makes this sort of cloud solution more flexible to users' demands.

* Consists of a community of users and, as such, is scalable in several aspects like hardware resources, services, and manpower. It takes under consideration demand growth, and you simply need to increase the user-base.

High Availability and Reliability

Your cloud service must be ready to make sure the availability of knowledge and applications in the least times. Community Clouds secure your data within the same way as the other cloud service, by replicating data and applications in multiple secure locations to guard them from unforeseen circumstances.

Cloud possesses redundant infrastructure to form sure data is out there whenever and wherever you would like it. High availability and reliability are critical concerns for any sort of cloud solution.

Security and Compliance

Two significant concerns discussed when organizations believe cloud computing are data security and compliance with relevant regulatory authorities. Compromising each other's data security isn't profitable to anyone during a Community Cloud.

Users can configure various levels of security for his or her data. Common use cases:

* the power to dam users from editing and downloading specific datasets.

* Making sensitive data subject to strict regulations on who has access to Sharing sensitive data unique to a specific organization would bring harm to all or any the members involved.

* What devices can store sensitive data.

Convenience and Control

Conflicts associated with convenience and control don't arise during a Community Cloud. Democracy may be a crucial factor the Community Cloud offers as all tenants share and own the infrastructure and make decisions collaboratively. This setup allows organizations to possess their data closer to them while avoiding the complexities of a personal Cloud.

Less Work for the IT Department

Having data, applications, and systems within the cloud means you are doing not need to manage them entirely. This convenience eliminates the necessity for tenants to use extra human resources to manage the system. Even during a self-managed solution, the work is split among the participating organizations.

Environment Sustainability

In the Community Cloud, organizations use one platform for all their needs, which dissuades them from investing in separate cloud facilities. This shift introduces a symbiotic relationship between broadening and shrinking the utilization of cloud among clients. With the reduction of organizations using different clouds, resources are used more efficiently, thus resulting in a smaller carbon footprint.

NEW QUESTION # 433

During a review for DoS threats, several IP addresses generate excessive traffic. Packet inspection shows the TCP three-way handshake is never completed, leaving many connections in a SYN_RECEIVED state and consuming server resources without completing sessions. What type of DoS attack is most likely occurring?

- A. Ping of Death
- B. Smurf Attack
- C. UDP Flood
- D. SYN Flood

Answer: D

Explanation:

In the CEH Denial-of-Service and Network Attacks coverage, a SYN flood is a classic TCP-based DoS technique that exploits the TCP connection establishment process. In a normal handshake, the client sends SYN, the server replies SYN/ACK, and the client completes with ACK. A SYN flood deliberately sends a high volume of SYN packets (often spoofed) but never completes the final ACK. As CEH describes, this leaves the server holding many half-open connections in SYN_RECEIVED, consuming memory and connection table resources (backlog queue). When the backlog fills, legitimate clients cannot establish connections, degrading availability.

The indicators in your scenario align exactly with CEH's SYN flood fingerprints: incomplete handshakes and accumulation of half-open connections. The goal is resource exhaustion at the connection-management layer rather than bandwidth saturation.

Option B (Ping of Death) involves malformed/oversized ICMP packets and does not match SYN_RECEIVED behavior. Option C (UDP flood) targets UDP services/ports and creates different symptoms (high UDP traffic, ICMP unreachable messages, service degradation) without half-open TCP states. Option D (Smurf) is ICMP-based amplification via broadcast addresses-again unrelated to incomplete TCP handshakes.

CEH also notes mitigations such as SYN cookies, increasing backlog, reducing SYN-RECEIVED timers, rate limiting, and upstream filtering-further reinforcing that the described event is a SYN flood.

NEW QUESTION # 434

Study the following log extract and identify the attack.

[Image shows an HTTP GET request with encoded traversal strings, such as

12/26-07:06:22:31:167035:707:119:207:230:1082 -> 172.16.1.106:80
 TCP TTL:13 TTL:50 TOS:0x0 IP:53476 DFF
 AP Seq: 0x2BDC107 Ack: 0x1CB9F186 Win: 0x2238 TcpLen: 20
 47 45 54 23 2F 6D 73 61 64 63 2F 2E 2E C0 AF 2E GET /msadc/.....
 2E 2F 2E 2E C0 AF 2E 2E 2F 2E 2E C0 AF 2E 2E 2F ./...../...../
 77 69 6E 6E 74 2F 73 79 73 74 65 6D 33 32 2F 63 winnt/system32/c
 6D 64 2E 65 78 65 3F 2F 63 2B 64 69 72 2B 63 3Acmd.exe?/c+dir+c:
 5C 20 48 54 54 50 2F 31 2E 31 0D 0A 41 63 63 65 \ HTTP/1.1..Acce
 70 74 3A 23 69 6D 61 67 65 2F 67 69 66 2C 20 69 pt: image/gif, i
 6D 61 67 65 2F 78 2D 78 62 69 74 6D 61 70 2C 20 mage/x-xbitmap
 69 6D 61 67 65 2F 6A 70 65 67 2C 20 69 6D 61 67 image/jpeg, imag
 65 2F 70 6A 70 65 67 2C 20 61 70 70 6C 69 63 61 e/jpeg, applica
 74 69 6F 6E 2F 76 6E 64 2E 6D 73 2D 65 78 63 65 tion/vnd.ms-exce
 6C 2C 20 61 70 70 6C 69 63 61 74 69 6F 6E 2F 6D l, application/m
 73 77 6F 72 64 2C 20 61 70 70 6C 69 63 61 74 69 sword, applicati
 6F 6E 2F 76 6E 64 2E 6D 73 2D 70 6F 77 65 72 70 on/vnd.ms-powerp
 6F 69 6E 74 2C 20 2A 2F 2A 0D 0A 41 63 63 65 70 oint, /*..Accep
 74 2D 4C 6C 6C 61 2F 34 2E 30 20 28 63 6F 6D 70 ozilla/age: en-u
 73 0D 0A 62 6C 65 3B 20 4D 53 49 45 20 35 2E 30 atible;pt-Encod3
 6E 67 3A 57 69 6E 64 6F 77 73 20 39 35 29 0D 0A l; Windo, deflat
 65 0D 0A 55 73 65 72 2D 41 67 65 6A 74 3A 20 4D e..User-Agent: M
 6F 7A 69 6C 6C 61 2F 34 2E 30 20 28 63 6F 6D 70 ozilla/4.0 (comp
 61 74 69 62 6C 65 3B 20 4D 53 49 45 20 35 2E 30 atible; MSIE 5.0
 31 3B 20 57 69 6E 64 6F 77 73 20 39 35 29 0D 0A l; Windows 95)..
 48 6F 73 74 3A 20 6C 61 62 2E 77 69 72 65 74 72 Host: lib.bvxttr
 69 70 2E 6E 65 74 0D 0A 43 6F 6E 6E 65 63 74 69 ip.org..Connecti
 6F 6E 3A 23 4B 65 65 70 2D 41 6C 69 76 65 0D 0A on: Keep-Alive..
 43 6F 6F 6B 69 65 3A 20 41 53 50 53 45 53 53 49 Cookie: ASPSESSI
 4F 4E 49 44 47 51 51 51 51 51 5A 55 3D 4B 4E 4F ONIDGQQQQZU=KNO
 48 4D 4F 4A 41 4B 50 46 4F 50 48 4D 4C 41 50 4E HMOJAKPFOPHMLAPN
 49 46 49 46 42 0D 0A 0D 0A 41 50 4E 49 46 49 46 IFIFB....APNIFIF
 42 0D 0A 0D 0A B....

- A. Unicode Directory Traversal Attack
- B. Hexcode Attack
- C. Cross Site Scripting
- D. Multiple Domain Traversal Attack

Answer: A

Explanation:

This log clearly shows an HTTP GET request attempting to exploit a web server using a directory traversal attack with Unicode encoding:

* The URL contains: /msadc/..%c0%af../%c0%af../winnt/system32/cmd.exe?/c+dir+c:

* %c0%af is a known Unicode-encoded sequence used to bypass input validation filters. It translates to the forward slash character "/" when interpreted by vulnerable versions of Microsoft IIS (specifically IIS 4.0 and 5.0).

This type of attack attempts to:

* Traverse out of the web root directory (via encoded ../ sequences)

* Access cmd.exe in the Windows system32 directory

* Execute operating system commands such as dir c: (list contents of drive C) From CEH v13 Official Courseware:

* Module 14: Hacking Web Servers

* Topic: Unicode Directory Traversal Vulnerability (IIS-specific)

CEH v13 Study Guide states:

"A Unicode Directory Traversal Attack takes advantage of improper input sanitization by encoding traversal characters (../) as Unicode (e.g., %c0%af). This bypasses input filters and accesses restricted directories such as system32." Incorrect Options:

* A. Hexcode Attack: Not a formal classification; here Unicode encoding is used.

* B. Cross-Site Scripting: Involves injecting scripts into a web page, unrelated to filesystem traversal.

* C. Multiple Domain Traversal: Not a valid or recognized attack type.

Reference: CEH v13 Study Guide - Module 14: Web Server Attacks # Unicode Directory Traversal Microsoft Security Bulletin MS00-078 - IIS Malformed Request Vulnerability

NEW QUESTION # 435

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