

MITRE's CVE Dictionary_____



CEH based TEST National Vocational and Technical Training Commission

 A _Port scan_ scan is performed to detect open ports on a system. What is the primary purpose of vulnerability scanning? 						
						primarily used to identify and assess potential security weaknesses in a system, network,
or application						
3. What is CVSS and what is the major difference between CVSS 2.0 and CVSS 3.0?						
CVSS stands for Common Vulnerability Scoring System.It's a standardized						
framework used to measure the severity of IT vulnerabilities						
The major difference between CVSS 2.0 and CVSS 3.0 lies in their scoring methodologies						
and metrics						
4 Vulnerability scanning_ type of scanning involves the use of tools like Nessus and						
OpenVAS.						
5. What is the first step in a vulnerability assessment?						
Identifying assets						
6. Define CVE and write about any CVE database that you know?						
CVE (Common Vulnerabilities and Exposures) is a publicly available database of known						
nformation security vulnerabilities						

7.	OpenVAS stands for Open Vulnerability Assessment SystemVulnerability Assessment System.					
8. The process of identifying vulnerabilities without automated tools is known as						
manual vulnerability assessment vulnerability assessment.						
9.	Which automated scanner is known for its ability to detect a wide range of vulnerabilities with minimal configuration?					
	Nessus					
10	 Security Information and Event Management (SIEM) systems often aggregate log data from diverse sources, and advanced SIEM platforms leverage Correlation Rules and anomaly detection to identify sophisticated attack patterns. 					
11	The vulnerability scanning technique that involves sending crafted packets to identify open ports is known as port scanning scanning.					
12	2. What does CVSS stand for?					
	_ Common Vulnerability Scoring System					
13	B. The database that maintains a list of known vulnerabilities is called a CVE					
1/	database					
	I. Describe the key features of the Common Vulnerability Scoring System (CVSS). Standardization, Scoring methodology, Metrics, Environmental factors					
`	Standardization, Scoring methodology, Wethics, Livil Office Italia factors.					
15	5. How does CVSS contribute to the prioritization of vulnerabilities?					
	_ by providing a quantitative measure of their severity					
16	5 CVE (Common Vulnerabilities and Exposures) databases are essential for keeping up-to-date with the latest vulnerabilities.					

	7. List three best practices for effective vulnerability management. Regular scanning, Prioritization, Patch management.
1	8. How can a vulnerability database like CVE be integrated into an organization's vulnerability management program?
	Subscribe to CVE feeds, Integrate with scanning tool, Use for prioritization
19	9.Defense in Depth involves layering multiple security controls throughout an organization's IT environment to ensure that if one layer fails, another can provide protection
2	O. Threat Intelligence Integration involves incorporating real-time information about current and emerging threats into an organization's security operations to better anticipate and defend against potential attacks.
2	The Least Privilege Principle dictates that users and systems should have the minimum level of access necessary to perform their functions.
	2. Explain the difference between automated and manual vulnerability scanning. _ Automated vulnerability scanning uses software tools to automatically identify
	erabilities in systems and networks. Manual vulnerability scanning involves human rts manually testing systems for vulnerabilities
2	 Nmap's _ Nmap Scripting Engine (NSE) Engine (NSE) is used for advanced vulnerability scanning.
	4. How does the Nmap Scripting Engine (NSE) enhance the capabilities of Nmap? by providing a framework for creating and using scripts to perform specialized erability scans and checks
2	5. Compare and contrast Nessus and OpenVAS as vulnerability scanners. Nessus is known for its ease of use and extensive plugin library, while OpenVAS is

•	the role of Qualys in vulno we features like Scalable		t. Is monitoring, Patch management
tools	re reacures like sealaste	scanning, continuou	3 monitoring, 1 aten management
27. The C)WASP Top Ten list is	a critical resource fo	r web application security.
OW	the OWASP Top Ten? ASP Top Ten is a standar veb application security		ent that identifies the ten most
		•	ity of web applications? rioritize, Providing insights into
30 Acu l	netix is a widely use	ed vulnerability scanno	er for assessing web applications.
focus on the	the focus of vulnerability hacker not Gain unautlisting isrupt the normal operates	horized access to use	er data, Install malware on the
33. What are	•	es used in vulnerabilit	o coding flaws. y analysis for network devices? vulnerability scanning
•	t important to conduct vuney are often a critical er	•	
vulnerab	-day vulnerability, a	vn to the public and a	the use of zero-day are often exploited through embedded code in seemingly

	Vulnerability analysis of network devices often focuses on protocols , configurations, and firmware.
ste	What are the typical steps involved in the reporting of vulnerabilities? Pos are identifying vulnerabilities, Prioritizing vulnerabilities, Documenting
vulnera	bilities, Communicating findings
38.	Define SQL injection and write an example of SQL injection?
S	QL injection is a type of attack where malicious code is injected into an SQL query to
manipu	late the database
e.g:	' OR 1=1
39.	How do exploitation frameworks assist in vulnerability analysis?
	by providing a set of tools and techniques that can be used to simulate attacks on
discove	red vulnerabilities
40.	What is the primary function of OpenVAS?
	identify and assess vulnerabilities
41.	Exploitation frameworks like Metasploit are used to simulate attacks on
(discovered vulnerabilities.
42.	Discuss the ethical considerations involved in vulnerability analysis.
	ethical consideration are obtaining authorization, Avoiding unauthorized access,
	zing impact, Reporting vulnerabilities responsibly.
43.\	What is the significance of reporting and remediation in the vulnerability manageme
	process? because they ensure that identified vulnerabilities are addressed in
	timely manner
	, <u>——</u>
44.	Zero Trust Architecture operates on the principle of " "never trust, always verify,"
	, always verify," meaning that every access request is subjected to strict verificatio
	regardless of its origin.
	Case studies in vulnerability analysis often highlight real-world examples from realworld scenarios.
<i>1</i> 6 '	Why are case studies important in learning about vulnerability analysis?

because they provide concrete examples of how vulnerabilities can be exploited and the						
potential impact of such attacks						
47. How can case studies improve your approach to vulnerability analysis?						
Providing insights into common attack vectors, Demonstrating the consequences of						
unpatched vulnerabilities						
48. Describe a scenario where comprehensive vulnerability analysis would be critical.						
before a major event or launch						
49. Define lateral movement and why it's done?						
Lateral movement refers to the ability of an attacker to move from one compromised						
system to another within a network. Attackers often use lateral movement to gain access to						
more sensitive systems and data						
50. During the practical on vulnerability analysis, students may use tools like Nmap to assess system security.						
51. What is the purpose of practical exercises in a vulnerability analysis course?						
The purpose of practical exercises in a vulnerability analysis course is to provide						
students with hands-on experience in identifying and assessing vulnerabilities						
52. Explain how a hands-on practical approach enhances understanding of vulnerability analysis.						
hands-on practical are Providing practical experience, Building confidence.						
53. What are the key components of a comprehensive vulnerability analysis report?						
key components are Remediation recommendations, Executive summary						
54.A well-conducted vulnerability analysis should lead to effective remediation of discovered vulnerabilities.						
55. What is the goal of a practical vulnerability analysis session?						
provide students with hands-on experience						
56black hat hacking hacking is the practice of exploiting vulnerabilities in						
systems to gain unauthorized access.						
57 Password-cracking cracking tools are used to recover lost or stolen passwords.						

58. Name two commonl	y used password-crackinį	g techniques.	
 Brute force and Dicti	onary attacks		