

• **Question 1**

1 out of 1 points



Local Web proxies such as Burp Suite or WebScarab are primarily used for:

- Selected Answer: Testing a website for security problems, by intercepting requests between an attacker and a server
- Answers:
- Testing a website for security problems, by intercepting requests between a remote victim and a server
 - Testing a website for security problems, by intercepting requests between an attacker and a server
 - Pivoting between compromised servers
 - Hiding the identity of the attacker

• **Question 2**

1 out of 1 points



Which of the following would be a valid CVE-ID?

- Selected Answer: CVE-2004-0012
- Answers:
- exploit/adobe_utilprintf
 - CVE-2004-0012
 - exploit/windows/fileformat/adobe_utilprintf
 - CVE-04-000012

• **Question 3**

1 out of 1 points



What does the following command do?:

```
searchsploit windows
```

- Selected Answer: Searches a local copy of The Exploit DB
- Answers:
- Launches an attack against a Windows system
 - Searches for Metasploit exploits that target Microsoft Windows
 - Searches a number of online vulnerability/exploit databases
 - Searches a local copy of The Exploit DB

• **Question 4**

1 out of 1 points



Software vulnerabilities in operating systems, such as the Microsoft Windows DCOM RPC Interface Buffer Overrun Vulnerability, are becoming rarer, and many more attacks are now found in webservices and applications

- Selected Answer: True
- Answers:
- True
 - False

- **Question 5**

1 out of 1 points



CVE is run by which of the following?:

Selected Answer: The MITRE Corporation

Answers:

- Cybersecurity and Communications
- The MITRE Corporation
- GCHQ
- The U.S. Department of Homeland Security

- **Question 6**

1 out of 1 points



Metasploit exploit modules are written in which programming language?

Selected Answer: Ruby

Answers:

- Ruby
- Java
- C
- C#

- **Question 7**

0 out of 1 points



What is a disadvantage of using Armitage's "Find Attacks" feature?

Selected Answer: May cause the remote system to crash: it launches attacks, including dangerous ones

Answers:

- Not as thorough as a vulnerability scan: false positives and false negatives
- All of these
- Causes lots of network traffic, including log entries that would raise suspicions
- May cause the remote system to crash: it launches attacks, including dangerous ones

- **Question 8**

1 out of 1 points



What port does CVE-2003-0352 affect?

Selected Answer: 135

Answers:

- 8080
- 21
- 80
- 135

- **Question 9**

1 out of 1 points



A current organisation should NOT use Windows Server 2000 as a webserver. Why not?

Selected Answer: Windows 2000 contains many security vulnerabilities such as buffer overflows, which will never be fixed since it has reached end of lifecycle

Answers: Windows 2000 was not designed to host websites

Windows should NEVER be used as a server

There are no fixes available for Microsoft Windows DCOM RPC Interface Buffer Overrun Vulnerability (CVE-2003-0352)

Windows 2000 contains many security vulnerabilities such as buffer overflows, which will never be fixed since it has reached end of lifecycle

- **Question 10**

1 out of 1 points



Stand-alone exploits were traditionally written in which programming language?

Selected Answer: C

Answers: C#

Java

C

Ruby

- **Question 11**

1 out of 1 points



Vulnerability analysis typically results in more false positives compared to a full penetration test

Selected Answer: True

Answers: True

False

- **Question 12**

1 out of 1 points



Which of the following is NOT a Vulnerability scanner?

Selected Answer: MSF

Answers: MSF

Nessus

OpenVAS

None of these

Nexpose

- **Question 13**

1 out of 1 points



A vulnerability scan will never crash the system being scanned

Selected Answer: False

Answers: True
False

• **Question 14**

1 out of 1 points



Which of the following would NOT be conducted during a typical vulnerability scan?

Selected Answer: Exploit vulnerabilities

Answers: Probe the system(s), to determine status and configuration of services
Port scans
Exploit vulnerabilities
Service identification on each open port

• **Question 15**

1 out of 1 points



Which of the following tools includes scripts for performing vulnerability analysis scans?

Selected Answer: Nmap

Answers: Nmap
Amap
Msfconsole
Dig

• **Question 16**

1 out of 1 points



If a Nessus scan reports that a system is vulnerable to a remote exploit with arbitrary code execution, this means:

Selected Answer: An attacker MAY be able to run commands on this service

Answers: An attacker MAY be able to run commands on this service
An attacker WILL be able to run commands on this service
An attacker WILL NOT be able to run commands on this service
An attacker WILL be able to get a shell

• **Question 17**

1 out of 1 points



OpenVAS is a fork of which project?

Selected Answer: Nessus

Answers: MSF

Nessus
Nexpose
Nmap

• **Question 18**

1 out of 1 points



If a vulnerability scan reports that a system is vulnerable to the RPC DCOM buffer overflow vulnerability, then this system could be attacked/exploited using:

Selected Answer: Stand-alone exploit code

Answers: Stand-alone exploit code
Nexpose
Nmap
SNMP

• **Question 19**

1 out of 1 points



The steps of an attack typically involve this sequence of events:

Selected Answer: Information gathering, exploitation, and post-exploitation

Answers: Scanning, footprinting, and hacking
Exploitation, information gathering, covering tracks
Maintaining access, information gathering, and hacking
Information gathering, exploitation, and post-exploitation

• **Question 20**

1 out of 1 points



Starting with a single IP address, how could an attacker determine the range of IP addresses used by the company?

Selected Answer: Whois

Answers: Whois
DNS
Domain bruteforcing
The dig command

• **Question 21**

0 out of 1 points



dig +short google.co.uk

The above command will return what?

Selected Answer: Mail server(s)

Answers:

- Mail server(s)
- Domain name(s)
- The name server(s) used to provide authoritative information about the DNS zone
- A listing of various types of DNS records
- The results of a DNS zone transfer
- IPv6 address(es)
- IP address(es) that the domain name resolves to

• **Question 22**

1 out of 1 points



RIPE and ARIN are examples of:

Selected Answer: Regional internet registries

Answers:

- Regional internet registries
- Registrars
- Protocols
- Exploits

• **Question 23**

1 out of 1 points



The Whois protocol uses which port?

Selected Answer: TCP port 43

Answers:

- TCP port 43
- UDP port 43
- UDP port 23
- TCP port 23

• **Question 24**

0 out of 1 points



Passive information gathering is likely to be detected by:

Selected Answer: All of these

Answers:

- Firewalls
- None of these
- Intrusion prevention systems (IPS)
- Intrusion detection systems (IDS)
- All of these
- Anti-malware

• **Question 25**

0 out of 1 points



Starting with a domain such as google.com, what technique could be used to find domains such as mail.google.com?

Selected Answer: dig +short google.com

Answers: Whois
Subdomain brute-forcing
Scanning
dig +short google.com
Enumeration

• **Question 26**

0 out of 1 points



dig +short -x 130.57.5.70

The above command will return what?

Selected Answer: Mail server(s)

Answers: The name server(s) used to provide authoritative information about the DNS zone
IP address(es) that the domain name resolves to
Mail server(s)
A listing of various types of DNS records
IPv6 address(es)
Domain name(s)
The results of a DNS zone transfer

• **Question 27**

1 out of 1 points



An attacker usually starts the first stages of an attack knowing:

Selected Answer: A domain name or IP address

Answers: A domain name or IP address
The vulnerabilities on the target system
The passwords for the target system
The software installed on the target system

• **Question 28**

1 out of 1 points



Which of the following statements is TRUE?

Selected Answer: An EXE wrapper can join a Trojan horse and a normal program into one program, so that it appears less malicious to a user

Answers: An EXE wrapper is used to bind a program to another network
An EXE wrapper program is a type of Trojan horse
An EXE wrapper can join a Trojan horse and a normal program into one program, so that it appears less malicious to a user
An EXE wrapper uses an existing program as a template for binding payloads into a malware executable

• **Question 29**

1 out of 1 points



Signature-based antimalware often fails because of:

Selected Answer: False negatives: new malware

Answers: False positives: new malware

False positives: well known malware

False negatives: new malware

False negatives: well known malware

• **Question 30**

0 out of 1 points



An infected computer that is under the control of an attacker is known as a:

Selected Answer: Rootkit

Answers: Buffer overflow
Software vulnerability
Worm
Virus
Zombie
Logic bomb
Rootkit
Trojan horse

• **Question 31**

1 out of 1 points



A program that has been digitally signed:

Selected Answer: Proves who authored the software, assuming you check and trust the certificate authority (CA) and no one else has the author's private key

Answers: Proves that the website that the program was obtained from was secured using SSL

Proves who authored the software, assuming you check and trust the certificate authority (CA) and no one else has the author's private key

Proves that the software is safe to run

Proves nothing

- **Question 32**

1 out of 1 points



Malware which poses as legitimate software is a:

Selected Answer: Trojan Horse

Answers: Worm

Logic bomb

Virus

Trojan Horse

- **Question 33**

1 out of 1 points



Black-lists provide more security than white-lists but are harder to maintain

Selected Answer: False

Answers: True
False

- **Question 34**

1 out of 1 points



Malware is software which:

Selected Answer: Is designed to do malicious things

Answers: Contains mistakes in logic

Contains design flaws

Contains implementation mistakes

Is designed to do malicious things

- **Question 35**

1 out of 1 points



Android runs the Linux kernel:

Selected Answer: True

Answers: True
False

- **Question 36**

1 out of 1 points



Linux Torvalds is:

Selected Answer: Creator, chief architect, and coordinator of the Linux kernel

Answers: Creator, chief architect, and coordinator of the Linux kernel

The founder of the Free Software Foundation

The CEO of and creator of Linux

The CEO of Linux

- **Question 37**

1 out of 1 points



/bin/bash is an example of:

Selected Answer: An absolute filename

Answers: An absolute filename

A configuration file

This is not a file

A relative filename

- **Question 38**

0 out of 1 points



Linux is certified Unix:

Selected Answer: True

Answers: True
False

- **Question 39**

1 out of 1 points

UNIX is now a:

Selected Answer: Trademark, and standard

Answers: Trademark, and standard



Trademark, and a particular operating system

Standard, and a particular operating system

Standard, and a Linux system

- **Question 40**

1 out of 1 points



An example of a *Unix-like* system (not officially Unix) is:

Selected Answer: Linux

Answers: DOS

Windows

Linux

Mac OS X

- **Question 41**

0 out of 1 points



On Unix each process has its own address space, which means:

Selected Answer: Processes cannot communicate with each other

Answers: **The kernel cannot access the memory of processes**

Programs maintain their own variable name-space

Processes cannot modify each others allocated memory

Processes cannot communicate with each other

- **Question 42**

1 out of 1 points



If you try to connect to a remote system on port 80 using Telnet or Netcat, and you cannot connect, then you can deduce that:

Selected Answer: There is no webserver on the host, or it is blocked by a firewall

Answers: There is no FTP server on the host, or it is blocked by a firewall

There is no FTP server on the host

There is no webserver on the host

There is no webserver on the host, or it is blocked by a firewall

• Question 43

1 out of 1 points



What will the following command do?

`sudo nmap -p 23 10.72.35.207`

Selected Answer: None of these services

Answers: All of these services

Scan for a ftp server

Scan for an email server

Scan for a web server

None of these services

Scan for an SSH server

• Question 44

1 out of 1 points



Which of the following statements is true of a SYN scan?

Selected Answer: It is faster for the scanner, since it does not need to establish a full TCP connection

Answers: It is faster, because it can connect to multiple ports at the same time

It is faster, since it does not require the scanner to send any packets to the target directly

It is faster for the scanner, since it does not need to establish a full TCP connection

It is slower to perform the scan

• Question 45

1 out of 1 points



Given the below invocation and output of Nmap, what can you conclude?

`nmap localhost -p 22`

Starting Nmap 5.61TEST2 (<http://nmap.org>) at 2013-10-15 16:09 BST

Nmap scan report for localhost (127.0.0.1)

Host is up (0.000028s latency).

PORT STATE SERVICE

22/tcp open ssh

Selected Answer: The local system has an ssh server running

Answers: The remote system is listening to port 22

The remote system is not available

The local system has an ssh server running

The local system has a firewall rule that denies access to port 22

• **Question 46**

1 out of 1 points



What will the following command do?

`sudo nmap -p 20-1000 10.72.35.207`

Selected Answer: All of these services

Answers: Scan for a ftp server

None of these services

Scan for a web server

Scan for an email server

Scan for an SSH server

All of these services

• **Question 47**

1 out of 1 points



A SYN scan works by:

Selected Answer: Not answering the SYN/ACK with an ACK

Answers: Not answering the SYN with a SYN/ACK

Completing the full three-way handshake

Not answering the SYN/ACK with an ACK

Sending a RST packet

• **Question 48**

1 out of 1 points



How many possible TCP ports exist?

Selected Answer: 65535

Answers: 65535

2048

65355

1024

• **Question 49**

1 out of 1 points



What will the following command do?

```
sudo nmap -p 22 10.72.35.207
```

Selected Answer: Scan for an SSH server

Answers:

- Scan for an SSH server
- None of these services
- Scan for a web server
- All of these services
- Scan for a ftp server
- Scan for an email server

• **Question 50**

1 out of 1 points



The term "attack surface" refers to:

Selected Answer: The various ways an attacker can interact with a system or software

Answers:

- All software installed on a system
- The various ways an attacker can interact with a system or software
- Services that are behind a firewall
- The amount of damage an attacker can cause after taking control of a system

• **Question 51**

1 out of 1 points



Which command will show the options for configuring the windows/shell_bind_tcp payload?:

Selected Answer: msfpayload windows/shell_bind_tcp O

Answers:

- msfpayload windows/shell_bind_tcp O
- msfpayload windows/shell_bind_tcp S
- msfpayload windows/shell_bind_tcp P
- msfpayload windows/shell_bind_tcp C

• **Question 52**

1 out of 1 points



Which of the following commands will generate an executable that adds a user to a Windows system:

Selected Answer: msfvenom -p windows/adduser USER=tux PASS=lives -f exe > t.exe

Answers:

- msfvenom -p windows/adduser USER=tux PASS=lives -f exe > t.exe
- msfvenom -p windows/adduser USER=tux PASS=lives

```
msfvenom -p windows/adduser -f > t.exe
```

```
msfvenom -p windows/adduser USER=tux PASS=lives -f C
```

- **Question 53**

1 out of 1 points



A small program that takes advantage of a security problem is known as a(n):

Selected Answer: Exploit

Answers: Exploit

Malware

Exploitation

Payload

Shell code

Buffer overflow

Software vulnerability

- **Question 54**

1 out of 1 points



A reverse shell is more likely to evade firewalls than a bind shell?

Selected Answer: True

Answers: True

False

- **Question 55**

1 out of 1 points



Which of the following is NOT a type of module available in Metasploit Framework (MSF)?

Selected Answer: Malware

Answers: Payload

Exploit

Post-Exploitation

Malware

- **Question 56**

1 out of 1 points



The code that takes affect after compromising a system is known as a(n):

Selected Answer: Payload

Answers: Malware

Exploitation

Buffer overflow

Shell code
Exploit
Software vulnerability
Payload

• **Question 57**

1 out of 1 points



Posting details of a new software vulnerability to the Internet, without first contacting the software authors or vendors, is known as:

Selected Answer: Full disclosure

Answers: Full disclosure
Grey hat hacking
White hat hacking
Responsible disclosure

• **Question 58**

1 out of 1 points



A mistake by a software developer can result in enabling attackers to take control of the program

Selected Answer: True

Answers: True
False

• **Question 59**

1 out of 1 points



Which of the following would be most likely to help you to identify any software installed on a machine that was vulnerable to attack via a buffer overflow?

Selected Answer: Vulnerability analysis

Answers: Software updates
Antimalware
Vulnerability analysis
Software patching

• **Question 60**

1 out of 1 points



Malicious code inserted during an attack that connects back to the attacker to grant access to the computer is an example of a(n):

Selected Answer: Payload

Answers: Payload
Malware

Buffer overflow
Connection attack
Software vulnerability
Exploit
Exploitation

• **Question 61**

1 out of 1 points



Which of these interfaces for MSF are designed for one-line use from a command prompt/shell?

Selected Answer: msfcli

Answers: msfconsole
Metasploit community
Armitage
msfcli

• **Question 62**

1 out of 1 points



linux:~> id -u

1000

Given the above output, which of the following will the attacker likely be able to modify?

Selected Answer: Files belonging to the corresponding user

Answers: Files belonging to the corresponding user
Files owned by any user
All of these
Any programs or configuration files stored locally

• **Question 63**

1 out of 1 points



A sandbox can typically be used to:

Selected Answer: Restrict what an attacker can do after taking control of a process

Answers: Modify timestamps
Restrict what an attacker can do after taking control of a process
Maintain access after an attack
Restrict what each user on a system can do

• **Question 64**

0 out of 1 points



msf > use post/linux/gather/hashdump

msf post(checkvm) > set SESSION 1

msf post(checkvm) > exploit

Given the above commands, what could an attacker do with the output?

Selected Answer: The output is the plain-text passwords! They could try using these credentials to get access to other services

Answers: They could use the core dump to determine the exact state of the kernel, such as a list of all the current processes on the system
The output is the plain-text passwords! They could try using these credentials to get access to other services

They could try to crack the hashes

This attack won't work, because they forgot to set IP addresses

• Question 65

1 out of 1 points



An exploit that is run as a normal user and is used to obtain superuser access, is known as:

Selected Answer: a local privilege escalation exploit

Answers: an arbitrary code execution exploit
a local privilege escalation exploit
a horizontal escalation attack
Meterpreter

• Question 66

1 out of 1 points



Which of the following would typically *only happen* during post-exploitation? (Not earlier in an attack)

Selected Answer: Make modifications to protected files

Answers: Launching an exploit
Information gathering
Attacks to obtain privileges not normally afforded to the attacker
Make modifications to protected files

• Question 67

0 out of 1 points



If an attacked system is logging to a secure remote server, which of the following methods could be used to effectively cover the tracks of an attacker?

Selected Answer: Deleting log files

Answers: Deleting log files

Disabling logging from the attacked system

Modifying log files

All of these

• Question 68

1 out of 1 points



meterpreter > getuid

What would the above command be used to do?

Selected Answer: Determine the security context

Answers: Attack a local system

Attack a remote system

Conduct a privilege escalation attack, in an attempt to get root

Determine the security context

• Question 69

1 out of 1 points



If an attacker gets a shell with the security context of a normal user:

Selected Answer: It is sometimes possible to use a local privilege escalation attack to get a superuser shell, if there is a vulnerability present

Answers: It is always possible to use a remote escalation attack to get a superuser shell

It is sometimes possible to use a local privilege escalation attack to get a superuser shell, if there is a vulnerability present

It is never possible to use a local privilege escalation attack to get a superuser shell

It is always possible to use a local privilege escalation attack to get a superuser shell

• Question 70

1 out of 1 points



Port forwarding would be used by an attacker:

Selected Answer: For pivoting attacks through a compromised system

Answers: For pivoting attacks through a compromised system

To use up all of a local system's resources, resulting in a DoS

For post-exploitation examination of the remote system's hard disk

As an advanced method of scanning for open ports