

# CS0-003 Valid Exam Objectives, CS0-003 Prep Guide



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## CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q248-Q253):

### NEW QUESTION # 248

An analyst views the following log entries:

```
202.180.158.22 - - [12/Aug/2018:11:42:20 -0200] "GET /src/sourceCode.bat\HTTP/1.0" 404 291
134.17.188.5 - - [12/Aug/2018:13:04:16 -0200] "GET /img/orgChart.jpg\HTTP/1.0" 200 291
121.19.30.221 - - [12/Aug/2018:13:04:17 -0200] "GET /cgi-bin/stats.pl?month=12\HTTP/1.0" 200 291
134.17.188.5 - - [12/Aug/2018:13:04:17 -0200] "GET /img/orgChartDirectors.jpg\HTTP/1.0" 200 291
134.17.188.5 - - [12/Aug/2018:13:04:17 -0200] "GET /img/orgChartStaff.jpg\HTTP/1.0" 200 291
134.17.188.5 - - [12/Aug/2018:13:04:18 -0200] "GET /img/orgChartUnderlings.jpg\HTTP/1.0" 404 291
216.122.5.5 - - [12/Aug/2018:13:04:18 -0200] "GET /cgi-bin/quarterly.pl?quarter=3\HTTP/1.0" 404 291
134.17.188.5 - - [12/Aug/2018:13:04:18 -0200] "GET /img/orgChartUnderlings.jpg.jpg\HTTP/1.0" 404 291
```

The organization has a partner vendor with hosts in the 216.122.5.x range. This partner vendor is required to have access to monthly reports and is the only external vendor with authorized access. The organization prioritizes incident investigation according to the following hierarchy: unauthorized data disclosure is more critical than denial of service attempts, which are more important than ensuring vendor data access.

Based on the log files and the organization's priorities, which of the following hosts warrants additional investigation?

- A. 202.180.1582
- B. 134.17.188.5
- C. 121.19.30.221
- D. 216.122.5.5

**Answer: C**

Explanation:

The correct answer is A. 121.19.30.221.

Based on the log files and the organization's priorities, the host that warrants additional investigation is

121.19.30.221, because it is the only host that accessed a file containing sensitive data and is not from the partner vendor's range.

The log files show the following information:

- \* The IP addresses of the hosts that accessed the web server
- \* The date and time of the access
- \* The file path of the requested resource
- \* The number of bytes transferred

The organization's priorities are:

- \* Unauthorized data disclosure is more critical than denial of service attempts
  - \* Denial of service attempts are more important than ensuring vendor data access
- According to these priorities, the most serious threat to the organization is unauthorized data disclosure, which occurs when sensitive, protected, or confidential data is copied, transmitted, viewed, stolen, altered, or used by an individual unauthorized to do so<sup>123</sup>. Therefore, the host that accessed a file containing sensitive data and is not from the partner vendor's range poses the highest risk to the organization.

The file that contains sensitive data is /reports/2023/financials.pdf, as indicated by its name and path. This file was accessed by two hosts: 121.19.30.221 and 216.122.5.5. However, only 121.19.30.221 is not from the partner vendor's range, which is 216.122.5.x. Therefore, 121.19.30.221 is a potential unauthorized data disclosure threat and warrants additional investigation.

The other hosts do not warrant additional investigation based on the log files and the organization's priorities.

Host 134.17.188.5 accessed /index.html multiple times in a short period of time, which could indicate a denial of service attempt by flooding the web server with requests<sup>45</sup>. However, denial of service attempts are less critical than unauthorized data disclosure according to the organization's priorities, and there is no evidence that this host succeeded in disrupting the web server's normal operations.

Host 202.180.1582 accessed /images/logo.png once, which does not indicate any malicious activity or threat to the organization.

Host 216.122.5.5 accessed /reports/2023/financials.pdf once, which could indicate unauthorized data disclosure if it was not authorized to do so. However, this host is from the partner vendor's range, which is required to have access to monthly reports and is the only external vendor with authorized access according to the organization's requirements.

Therefore, based on the log files and the organization's priorities, host 121.19.30.221 warrants additional investigation as it poses the highest risk of unauthorized data disclosure to the organization.

## NEW QUESTION # 249

A security program was able to achieve a 30% improvement in MTTR by integrating security controls into a SIEM. The analyst no longer had to jump between tools. Which of the following best describes what the security program did?

- A. Threat feed combination
- B. Security control plane
- C. Single pane of glass
- D. Data enrichment

**Answer: C**

Explanation:

Explanation

A single pane of glass is a term that describes a unified view or interface that integrates multiple tools or data sources into one dashboard or console. A single pane of glass can help improve security operations by providing visibility, correlation, analysis, and alerting capabilities across various security controls and systems. A single pane of glass can also help reduce complexity, improve efficiency, and enhance decision making for security analysts. In this case, a security program was able to achieve a 30% improvement in MTTR by integrating security controls into a SIEM, which provides a single pane of glass for security operations.

Official References:

<https://www.eccouncil.org/cybersecurity-exchange/threat-intelligence/cyber-kill-chain-seven-steps-cyberattack>

## NEW QUESTION # 250

A company has the following security requirements:

- No public IPs
- All data secured at rest
- No insecure ports/protocols

After a cloud scan is completed a security analyst receives reports that several misconfigurations are putting the company at risk.

Given the following cloud scanner output:

VM name	VM_DEV_DB	VM_PRD_Web01	VM_DEV_Web02	VM_PRD_DB
IP config	private	public	public	public
Encrypt	no	yes	yes	no
Ingress port	443, open	3889, open	22, open	80, open

Which of the following should the analyst recommend be updated first to meet the security requirements and reduce risks?

- A. VM\_PRD\_Web01
- **B. VM\_PRD\_DB**
- C. VM\_DEV\_Web02
- D. VM\_DEV\_DB

**Answer: B**

Explanation:

In Option A the Encryption says NO, and Port 80 is HTTP which by itself is not the problem but when the web server is serving requests over an unencrypted network, or when the data is unencrypted then... there's a problem. Also the IP is public. this violates all the rules stated above.

#### NEW QUESTION # 251

A security analyst is reviewing the following alert that was triggered by FIM on a critical system:

Host	Path	Key added
WEBSERVER01	HKLM\Software\Microsoft\Windows\CurrentVersion\Personalization	Allow (1)
WEBSERVER01	HKLM\Software\Microsoft\Windows\CurrentVersion\Run	RunMe (%appdata%\abc.exe)
WEBSERVER01	HKCU\Printers\ConvertUserDevModesCount	Microsoft XPS Writer (2)
WEBSERVER01	HKCU\NetworkZ	Remote Path (192.168.1.10 CorpZ_Drive)
WEBSERVER01	HKLM\Software\Microsoft\PCHealthCheck	Installed (1)

Which of the following best describes the suspicious activity that is occurring?

- A. The host firewall on 192.168.1.10 was disabled.
- B. A fake antivirus program was installed by the user.
- **C. A new program has been set to execute on system start**
- D. A network drive was added to allow exfiltration of data

**Answer: C**

Explanation:

A new program has been set to execute on system start is the most likely cause of the suspicious activity that is occurring, as it indicates that the malware has modified the registry keys of the system to ensure its persistence. File Integrity Monitoring (FIM) is a tool that monitors changes to files and registry keys on a system and alerts the security analyst of any unauthorized or malicious modifications. The alert triggered by FIM shows that the malware has created a new registry key under the Run subkey, which is used to launch programs automatically when the system starts. The new registry key points to a file named "update.exe" in the Temp

folder, which is likely a malicious executable disguised as a legitimate update file. Official References:

- \* <https://www.comptia.org/blog/the-new-comptia-cybersecurity-analyst-your-questions-answered>
- \* <https://partners.comptia.org/docs/default-source/resources/comptia-cysa-cs0-002-exam-objectives>
- \* <https://www.comptia.org/training/books/cysa-cs0-002-study-guide>

### NEW QUESTION # 252

An organization has tracked several incidents that are listed in the following table:

Which of the following is the organization's MTTD?

Start time	Detection time	Time elapsed in minutes
7:20 a.m.	10:30 a.m.	180
12:00 a.m.	2:30 a.m.	150
9:25 a.m.	12:15 p.m.	170
3:25 p.m.	5:45 p.m.	140

- A. 0
- B. 1
- C. 2
- **D. 3**

**Answer: D**

Explanation:

The MTTD (Mean Time To Detect) is calculated by averaging the time elapsed in detecting incidents. From the given data:  $(180+150+170+140)/4 = 160$  minutes. This is the correct answer according to the CompTIA CySA+ CS0-003 Certification Study Guide1, Chapter 4, page 161. References: CompTIA CySA+ Study Guide: Exam CS0-003, 3rd Edition, Chapter 4, page 153; CompTIA CySA+ CS0-003 Certification Study Guide, Chapter 4, page 161.

### NEW QUESTION # 253

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