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Fortinet FCSS_SOC_AN-7.4 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• SOC automation: This section of the exam measures the skills of target professionals in the implementation of automated processes within a SOC. It emphasizes configuring playbook triggers and tasks, which are crucial for streamlining incident response. Candidates should be able to configure and manage connectors, facilitating integration between different security tools and systems.
Topic 2	<ul style="list-style-type: none">• SOC operation: This section of the exam measures the skills of SOC professionals and covers the day-to-day activities within a Security Operations Center. It focuses on configuring and managing event handlers, a key skill for processing and responding to security alerts. Candidates are expected to demonstrate proficiency in analyzing and managing events and incidents, as well as analyzing threat-hunting information feeds.
Topic 3	<ul style="list-style-type: none">• Architecture and detection capabilities: This section of the exam measures the skills of SOC analysts in the designing and managing of FortiAnalyzer deployments. It emphasizes configuring and managing collectors and analyzers, which are essential for gathering and processing security data.
Topic 4	<ul style="list-style-type: none">• SOC concepts and adversary behavior: This section of the exam measures the skills of Security Operations Analysts and covers fundamental concepts of Security Operations Centers and adversary behavior. It focuses on analyzing security incidents and identifying adversary behaviors. Candidates are expected to demonstrate proficiency in mapping adversary behaviors to MITRE ATT&CK tactics and techniques, which aid in understanding and categorizing cyber threats.

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Fortinet FCSS - Security Operations 7.4 Analyst Sample Questions (Q40-Q45):

NEW QUESTION # 40

Refer to the exhibits.

The screenshot displays the Fortinet Threat Hunting Monitor interface. The top section shows a summary of threat actions for the period 2023-09-07 19:55:58 to 2023-09-07 20:55:57. A table lists application services with their respective counts and sent bytes. The bottom section shows a detailed log of connection attempts, including event messages and IP addresses.

#	Application Service	Count	Sent (bytes)	Average Sent	Max Sent (bytes)
1		251,400(68%)			
2	DNS	109,486(30%)	9.1 MB	169.0 B	28.5 KB
3	HTTP	4,521(1%)	3.6 MB	1.2 KB	27.8 KB
4	HTTPS	1,026(< 1%)	572.1 MB	578.3 KB	554.9 MB
5	SSL	249(< 1%)			
6	other	76(< 1%)	10.2 KB	138.0 B	500.0 B
7	udp/443	58(< 1%)	1019.8 KB	17.6 KB	17.6 KB
8	NNTP	57(< 1%)			

#	Date/Time	Event Message	Source IP	Destination IP
1	20:55:55		10.0.1.10	8.8.8.8
2	20:55:55	Connection Failed	10.0.1.10	8.8.8.8
3	20:55:55		10.0.1.10	8.8.8.8
4	20:55:55	Connection Failed	10.0.1.10	8.8.8.8
5	20:55:55		10.0.1.10	8.8.8.8
6	20:55:55	Connection Failed	10.0.1.10	8.8.8.8
7	20:55:55		10.0.1.10	8.8.8.8

What can you conclude from analyzing the data using the threat hunting module?

- A. DNS tunneling is being used to extract confidential data from the local network.
- B. Spearphishing is being used to elicit sensitive information.
- C. FTP is being used as command-and-control (C&C) technique to mine for data.
- D. Reconnaissance is being used to gather victim identity information from the mail server.

Answer: A

Explanation:

Understanding the Threat Hunting Data:

The Threat Hunting Monitor in the provided exhibits shows various application services, their usage counts, and data metrics such as sent bytes, average sent bytes, and maximum sent bytes.

The second part of the exhibit lists connection attempts from a specific source IP (10.0.1.10) to a destination IP (8.8.8.8), with repeated "Connection Failed" messages. Analyzing the Application Services:

DNS is the top application service with a significantly high count (251,400) and notable sent bytes (9.1 MB).

This large volume of DNS traffic is unusual for regular DNS queries and can indicate the presence of DNS tunneling.

DNS Tunneling:

DNS tunneling is a technique used by attackers to bypass security controls by encoding data within DNS queries and responses. This allows them to extract data from the local network without detection.

The high volume of DNS traffic, combined with the detailed metrics, suggests that DNS tunneling might be in use.

Connection Failures to 8.8.8.8:

The repeated connection attempts from the source IP (10.0.1.10) to the destination IP (8.8.8.8) with connection failures can indicate an attempt to communicate with an external server. Google DNS (8.8.8.8) is often used for DNS tunneling due to its reliability and global reach.

Conclusion:

Given the significant DNS traffic and the nature of the connection attempts, it is reasonable to conclude that DNS tunneling is being used to extract confidential data from the local network.

Why Other Options are Less Likely:

Spearphishing (A): There is no evidence from the provided data that points to spearphishing attempts, such as email logs or phishing indicators.

Reconnaissance (C): The data does not indicate typical reconnaissance activities, such as scanning or probing mail servers.

FTP C&C (D): There is no evidence of FTP traffic or command-and-control communications using FTP in the provided data.

Reference: SANS Institute: "DNS Tunneling: How to Detect Data Exfiltration and Tunneling Through DNS Queries" SANS DNS Tunneling OWASP: "DNS Tunneling" OWASP DNS Tunneling By analyzing the provided threat hunting data, it is evident that DNS tunneling is being used to exfiltrate data, indicating a sophisticated method of extracting confidential information from the network.

NEW QUESTION # 41

In a FortiAnalyzer deployment, how does the configuration of analyzers affect the overall system performance?

- A. By influencing the speed and accuracy of log analysis
- B. By setting the network timezone settings
- C. By determining the user access levels
- D. By dictating the graphical user interface design

Answer: A

NEW QUESTION # 42

While monitoring your network, you discover that one FortiGate device is sending significantly more logs to FortiAnalyzer than all of the other FortiGate devices in the topology.

Additionally, the ADOM that the FortiGate devices are registered to consistently exceeds its quota.

What are two possible solutions? (Choose two.)

- A. Increase the storage space quota for the first FortiGate device.
- B. Configure data selectors to filter the data sent by the first FortiGate device.
- C. Reconfigure the first FortiGate device to reduce the number of logs it forwards to FortiAnalyzer.
- D. Create a separate ADOM for the first FortiGate device and configure a different set of storage policies.

Answer: C,D

Explanation:

* Understanding the Problem:

* One FortiGate device is generating a significantly higher volume of logs compared to other devices, causing the ADOM to exceed its storage quota.

* This can lead to performance issues and difficulties in managing logs effectively within FortiAnalyzer.

* Possible Solutions:

* The goal is to manage the volume of logs and ensure that the ADOM does not exceed its quota, while still maintaining effective log analysis and monitoring.

* Solution A: Increase the Storage Space Quota for the First FortiGate Device:

* While increasing the storage space quota might provide a temporary relief, it does not address the root cause of the issue, which is the excessive log volume.

* This solution might not be sustainable in the long term as log volume could continue to grow.

* Not selected as it does not provide a long-term, efficient solution.

* Solution B: Create a Separate ADOM for the First FortiGate Device and Configure a Different Set of Storage Policies:

* Creating a separate ADOM allows for tailored storage policies and management specifically for the high-log-volume device.

* This can help in distributing the storage load and applying more stringent or customized retention and storage policies.

- * Selected as it effectively manages the storage and organization of logs.
- * Solution C: Reconfigure the First FortiGate Device to Reduce the Number of Logs it Forwards to FortiAnalyzer:
- * By adjusting the logging settings on the FortiGate device, you can reduce the volume of logs forwarded to FortiAnalyzer.
- * This can include disabling unnecessary logging, reducing the logging level, or filtering out less critical logs.
- * Selected as it directly addresses the issue of excessive log volume.
- * Solution D: Configure Data Selectors to Filter the Data Sent by the First FortiGate Device:
- * Data selectors can be used to filter the logs sent to FortiAnalyzer, ensuring only relevant logs are forwarded.
- * This can help in reducing the volume of logs but might require detailed configuration and regular updates to ensure critical logs are not missed.
- * Not selected as it might not be as effective as reconfiguring logging settings directly on the FortiGate device.
- * Implementation Steps:
- * For Solution B:
- * Step 1: Access FortiAnalyzer and navigate to the ADOM management section.
- * Step 2: Create a new ADOM for the high-log-volume FortiGate device.
- * Step 3: Register the FortiGate device to this new ADOM.
- * Step 4: Configure specific storage policies for the new ADOM to manage log retention and storage.
- * For Solution C:
- * Step 1: Access the FortiGate device's configuration interface.
- * Step 2: Navigate to the logging settings.
- * Step 3: Adjust the logging level and disable unnecessary logs.
- * Step 4: Save the configuration and monitor the log volume sent to FortiAnalyzer.

References:

- * Fortinet Documentation on FortiAnalyzer ADOMs and log management FortiAnalyzer Administration Guide
- * Fortinet Knowledge Base on configuring log settings on FortiGate FortiGate Logging Guide By creating a separate ADOM for the high-log-volume FortiGate device and reconfiguring its logging settings, you can effectively manage the log volume and ensure the ADOM does not exceed its quota.

NEW QUESTION # 43

What is the benefit of managing multiple FortiAnalyzer units in a Fabric deployment?

- A. It simplifies the licensing process
- B. It reduces the physical space required for hardware
- C. It provides centralized management of configurations
- D. It enhances the aesthetics of the deployment

Answer: C

NEW QUESTION # 44

When designing a FortiAnalyzer Fabric deployment, what is a critical consideration for ensuring high availability?

- A. Implementing a minimalistic user interface
- B. Regular firmware updates
- C. Configuring single sign-on
- D. Designing redundant network paths

Answer: D

NEW QUESTION # 45

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