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Splunk SPLK-5002 Exam Syllabus Topics:

Topic	Details

Topic 1	• Detection Engineering: This section evaluates the expertise of Threat Hunters and SOC Engineers in developing and refining security detections. Topics include creating and tuning correlation searches, integrating contextual data into detections, applying risk-based modifiers, generating actionable Notable Events, and managing the lifecycle of detection rules to adapt to evolving threats.
Topic 2	• Building Effective Security Processes and Programs: This section targets Security Program Managers and Compliance Officers, focusing on operationalizing security workflows. It involves researching and integrating threat intelligence, applying risk and detection prioritization methodologies, and developing documentation or standard operating procedures (SOPs) to maintain robust security practices.
Topic 3	• Automation and Efficiency: This section assesses Automation Engineers and SOAR Specialists in streamlining security operations. It covers developing automation for SOPs, optimizing case management workflows, utilizing REST APIs, designing SOAR playbooks for response automation, and evaluating integrations between Splunk Enterprise Security and SOAR tools.
Topic 4	• Auditing and Reporting on Security Programs: This section tests Auditors and Security Architects on validating and communicating program effectiveness. It includes designing security metrics, generating compliance reports, and building dashboards to visualize program performance and vulnerabilities for stakeholders.
Topic 5	• Data Engineering: This section of the exam measures the skills of Security Analysts and Cybersecurity Engineers and covers foundational data management tasks. It includes performing data review and analysis, creating and maintaining efficient data indexing, and applying Splunk methods for data normalization to ensure structured and usable datasets for security operations.

Splunk Certified Cybersecurity Defense Engineer Sample Questions (Q71-Q76):

NEW QUESTION # 71
What are the essential components of risk-based detections in Splunk?

- A. Alerts, notifications, and priority levels
- B. Summary indexing, tags, and event types
- C. Source types, correlation searches, and asset groups
- D. Risk modifiers, risk objects, and risk scores

Answer: D

Explanation:
What Are Risk-Based Detections in Splunk?
Risk-based detections in Splunk Enterprise Security (ES) assign risk scores to security events based on threat severity and asset criticality.
#Key Components of Risk-Based Detections:1##Risk Modifiers - Adjusts risk scores based on event type (e.
g., failed logins, malware detections).2##Risk Objects - Entities associated with security events (e.g., users, IPs, devices).3##Risk Scores - Numerical values indicating the severity of a risk.
#Example in Splunk Enterprise Security:#Scenario: A high-privilege account (Admin) fails multiple logins from an unusual location.#Splunk ES applies risk-based detection:
Failed logins add +10 risk points
Login from a suspicious country adds +15 points
Total risk score exceeds 25 # Triggers an alert
Why Not the Other Options?
#B. Summary indexing, tags, and event types - Summary indexing stores precomputed data, but doesn't drive risk-based detection.#C. Alerts, notifications, and priority levels - Important, but risk-based detection is based on scoring, not just alerts.#D. Source types, correlation searches, and asset groups - Helps in data organization, but not specific to risk-based detections.
References & Learning Resources
#Splunk ES Risk-Based Alerting Guide: https://docs.splunk.com/Documentation/ES#Risk-Based Detections
& Scoring in Splunk: https://www.splunk.com/en_us/blog/security/risk-based-alerting.html#Best Practices for Risk Scoring in SOC Operations: https://splunkbase.splunk.com

NEW QUESTION # 72
An engineer observes a delay in data being indexed from a remote location. The universal forwarder is configured correctly. Whatshould they check next?

- A. Increase the indexer memory allocation.
- B. Review forwarder logs for queue blockages.
- C. Optimize search head clustering.
- D. Reconfigure the props.conf file.

Answer: B

Explanation:
If there is a delay in data being indexed from a remote location, even though the Universal Forwarder (UF) is correctly configured, the issue is likely a queue blockage or network latency.
Steps to Diagnose and Fix Forwarder Delays:
Check Forwarder Logs (splunkd.log) for Queue Issues (A)
Look for messages likeTcpOutAutoLoadBalancedorQueue is full.
If queues are full, events are stuck at the forwarder and not reaching the indexer.
Monitor Forwarder Health Usingmetrics.log
Useindex=_internal source=*metrics.log* group=queueto check queue performance.

NEW QUESTION # 73
How can you incorporate additional context into notable events generated by correlation searches?

- A. By configuring additional indexers
- B. By optimizing the search head memory
- C. By using the dedup command in SPL
- D. By adding enriched fields during search execution

Answer: D

Explanation:
In Splunk Enterprise Security (ES), notable events are generated by correlation searches, which are predefined searches designed to detect security incidents by analyzing logs and alerts from multiple data sources. Adding additional context to these notable events enhances their value for analysts and improves the efficiency of incident response.
To incorporate additional context, you can:
Use lookup tables to enrich data with information such as asset details, threat intelligence, and user identity.
Leverage KV Store or external enrichment sources like CMDB (Configuration Management Database) and identity management solutions.
Apply Splunk macros orevalcommands to transform and enhance event data dynamically.
Use Adaptive Response Actions in Splunk ES to pull additional information into a notable event.
The correct answer is A. By adding enriched fields during search execution, because enrichment occurs dynamically during search execution, ensuring that additional fields (such as geolocation, asset owner, and risk score) are included in the notable event.
References:
Splunk ES Documentation on Notable Event Enrichment
Correlation Search Best Practices
Using Lookups for Data Enrichment

NEW QUESTION # 74
A Splunk administrator is tasked with creating a weekly security report for executives.
Whatelements should they focus on?

- A. High-level summaries and actionable insights
- B. Detailed logs of every notable event
- C. Avoiding visuals to focus on raw data
- D. Excluding compliance metrics to simplify reports

Answer: A

Explanation:
Why Focus on High-Level Summaries & Actionable Insights?
Executive security reports should provideconcise, strategic insightsthat help leadership teams makeinformed decisions.
#Key Elements for an Executive-Level Report:#Summarized Security Incidents- Focus onmajor threats and trends.#Actionable Recommendations- Includemitigation stepsfor ongoing risks.#Visual Dashboards- Use charts and graphs foreasy interpretation.#Compliance & Risk Metrics- Highlightcompliance status(e.g., PCI- DSS, NIST).
#Example in Splunk:#Scenario:A CISO requests aweekly security report.#Best Report Format:
Threat Summary:"Detected 15 phishing attacks this week."
Key Risks:"Increase in brute-force login attempts."
Recommended Actions:"Enhance MFA enforcement & user awareness training." Why Not the Other Options?
#B. Detailed logs of every notable event- Too technical; executives needsummaries, not raw logs.#C. Excluding compliance metrics to simplify reports- Compliance is critical forrisk assessment.#D. Avoiding visuals to focus on raw data-Visuals improve clarity; raw data is too complex for executives.
References & Learning Resources
#Splunk Security Reporting Best Practices: https://www.splunk.com/en_us/blog/security#Creating Effective Executive Dashboards in Splunk: https://splunkbase.splunk.com#Cybersecurity Metrics & Reporting for Leadership Teams:https://www.nist.gov/cyberframework

NEW QUESTION # 75
What is the main purpose of incorporating threat intelligence into a security program?

- A. To generate incident reports for stakeholders
- B. To automate response workflows
- C. To proactively identify and mitigate potential threats
- D. To archive historical events for compliance

Answer: C

Explanation:
Why Use Threat Intelligence in Security Programs?
Threat intelligence providesreal-time data on known threats, helping SOC teamsidentify, detect, and mitigate security risks proactively.
#Key Benefits of Threat Intelligence:#Early Threat Detection- Identifiesknown attack patterns(IP addresses, domains, hashes).#Proactive Defense- Blocks threatsbefore they impact systems.#Better Incident Response- Speeds uptriage and forensic analysis.#Contextualized Alerts- Reduces false positives bycorrelating security events with known threats.
#Example Use Case in Splunk ES:#Scenario:The SOC team ingeststhreat intelligence feeds(e.g., from MITRE ATT&CK, VirusTotal).#Splunk Enterprise Security (ES)correlates security eventswith knownmalicious IPs or domains.#If an internal system communicates with aknown C2 server, the SOC teamautomatically receives an alertandblocks the IPusing Splunk SOAR.
Why Not the Other Options?
#A. To automate response workflows- While automation is beneficial,threat intelligence is primarily for proactive identification.#C. To generate incident reports for stakeholders- Reports are abyproduct, but not themain goalof threat intelligence.#D. To archive historical events for compliance- Threat intelligence isreal- time and proactive, whereas compliance focuses onrecord-keeping.
References & Learning Resources
#Splunk ES Threat Intelligence Guide: https://docs.splunk.com/Documentation/ES#MITRE ATT&CK Integration with Splunk: https://attack.mitre.org/resources#Threat Intelligence Best Practices in SOC: https://splunkbase.splunk.com

NEW QUESTION # 76
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