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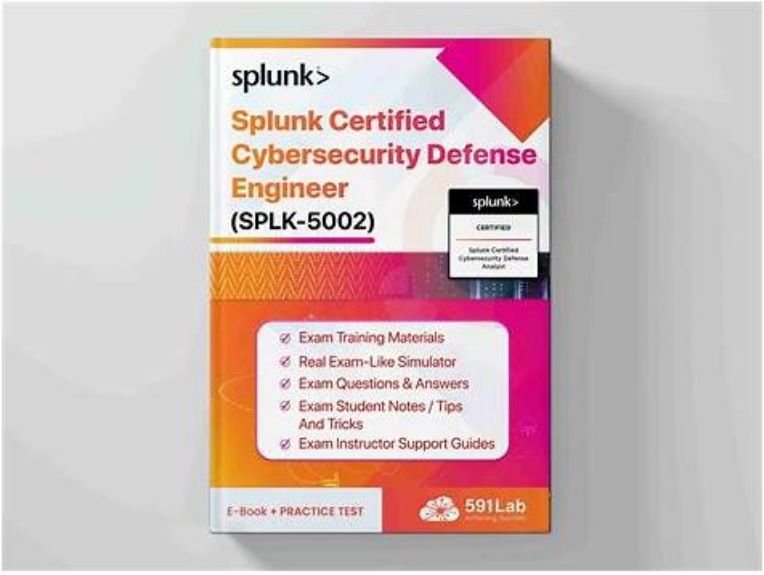

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Splunk SPLK-5002 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 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	• 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.
Topic 4	• 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 5	• 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.

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

NEW QUESTION # 71
What document can be helpful in understanding the prioritization of risk when comparing entities in an organization?

- A. Application architecture diagrams
- B. Infrastructure architecture diagrams
- C. Business Continuity or Disaster Recovery plan
- D. A hierarchical organization chart

Answer: C

Explanation:
A Business Continuity or Disaster Recovery (BC/DR) plan identifies critical business processes, systems, and dependencies. It helps in understanding the prioritization of risk across entities in the organization, ensuring that the most business-critical assets are given higher priority in risk- based alerting and response.

NEW QUESTION # 72
A Splunk administrator needs to integrate a third-party vulnerability management tool to automate remediation workflows. What is the most efficient first step?

- A. Set up a manual alerting system for vulnerabilities
- B. Configure custom dashboards to monitor vulnerabilities
- C. Write a correlation search for each vulnerability type
- D. Use REST APIs to integrate the third-party tool with Splunk SOAR

Answer: D

Explanation:
Why Use REST APIs for Integration?
When integrating a third-party vulnerability management tool (e.g., Tenable, Qualys, Rapid7) with Splunk SOAR, using REST APIs

is the most efficient and scalable approach.
Why REST APIs?
APIs enable direct communication between Splunk SOAR and the third-party tool.
Allows automated ingestion of vulnerability data into Splunk.
Supports automated remediation workflows (e.g., patch deployment, firewall rule updates).
Reduces manual work by allowing Splunk SOAR to pull real-time data from the vulnerability tool.
Steps to Integrate a Third-Party Vulnerability Tool with Splunk SOAR Using REST API:
1. Obtain API Credentials - Get API keys or authentication tokens from the vulnerability management tool.
2. Configure REST API Integration - Use Splunk SOAR's built-in API connectors or create a custom REST API call.
3. Ingest Vulnerability Data into Splunk - Map API responses to Splunk ES correlation searches.
4. Automate Remediation Playbooks - Build Splunk SOAR playbooks to:
Automatically open tickets for critical vulnerabilities.
Trigger patches or firewall rules for high-risk vulnerabilities.
Notify SOC analysts when a high-risk vulnerability is detected on a critical asset.
Example Use Case in Splunk SOAR:
Scenario: The company uses Tenable.io for vulnerability management.
Splunk SOAR connects to Tenable's API and pulls vulnerability scan results.
If a critical vulnerability is found on a production server, Splunk SOAR:
Automatically creates a ServiceNow ticket for remediation.
Triggers a patching script to fix the vulnerability.
Updates Splunk ES dashboards for tracking.

NEW QUESTION # 73
Which of the following detections would use a high count of events with Windows Event Code 4740 grouped by a user to determine suspicious behavior?

- A. Detect Excessive AWS Security Scanning
- B. Detect Excessive User Account Lockouts
- C. Detect Excessive Network Connections
- D. Detect Excessive User Logins

Answer: B

Explanation:
Windows Event Code 4740 indicates that a user account has been locked out. A high count of these events grouped by user would therefore map to the detection "Detect Excessive User Account Lockouts", signaling possible brute-force or malicious login attempts.

NEW QUESTION # 74
What field is used by default to direct data into CIM data model datasets?

- A. sourcetype
- B. tag
- C. dataset
- D. source

Answer: B

Explanation:
By default, data is directed into CIM (Common Information Model) data model datasets using the tag field. Tags applied to events determine which datasets the events populate, enabling normalization and alignment with CIM.

NEW QUESTION # 75
What should a security engineer prioritize when building a new security process?

- A. Reducing the overall number of employees required
- B. Integrating it with legacy systems

- C. Ensuring it aligns with compliance requirements
- D. Automating all workflows within the process

Answer: C

Explanation:
When aSecurity Engineeris building a new security process, theirtop priorityshould be ensuring that the process aligns withcompliance requirements. This is crucial because compliance dictates the legal, regulatory, and industry standards that organizations must follow to protect sensitive data and maintain trust.
Why Compliance is the Top Priority?
Legal and Regulatory Obligations- Many industries are required to follow compliance standards such asGDPR, HIPAA, PCI-DSS, NIST, ISO 27001, and SOX. Non-compliance can lead toheavy fines and legal actions.
Data Protection & Privacy- Compliance ensures that sensitive information is handled securely, preventingdata breachesandunauthorized access.
Risk Reduction- Following compliance standards helps mitigate cybersecurity risks byimplementing security best practicessuch as encryption, access controls, and logging.
Business Reputation & Trust- Organizations that comply with standards buildcustomer confidence and industry credibility.
Audit Readiness- Security teams must ensure that logs, incidents, and processes align with compliance frameworks topass internal/external auditseasily.
How Does Splunk Enterprise Security (ES) Help with Compliance?
Splunk ES is aSecurity Information and Event Management (SIEM)tool that helps organizations meet compliance requirements by:
#Log Management & Retention- Stores and correlates security logs forauditability and forensic investigation.
#Real-time Monitoring & Alerts- Detects suspicious activity andalerts SOC teams.#Prebuilt Compliance Dashboards- Comes with out-of-the-box dashboards forPCI-DSS, GDPR, HIPAA, NIST 800-53, and other frameworks.#Automated Reporting- Generates reports that can be used forcompliance audits.
Example in Splunk ES:A security engineer can createcorrelation searches and risk-based alerting (RBA)to monitor and enforce compliance policies.
How Does Splunk SOAR Help Automate Compliance-Driven Security Processes?
Splunk SOAR (Security Orchestration, Automation, and Response) enhances compliance processes by:
#Automating Incident Response- Ensures that responses to security threats followpredefined compliance guidelines.#Automated Evidence Collection- Helps inaudit documentationby automatically collecting logs, alerts, and incident data.#Playbooks for Compliance Violations- Can automaticallydetect and remediatenon- compliant actions (e.g., blocking unauthorized access).
Example in Splunk SOAR:Aplaybookcan be configured to automaticallyrespond to an unencrypted database storing customer databy triggering a compliance violation alert and notifying the compliance team.
Why Not the Other Options?
#A. Integrating with legacy systems- While important,compliance is a higher priority. Security engineers shouldmodernizelegacy systems if they pose security risks.#C. Automating all workflows- Automation is beneficial, but it should not be prioritizedover security and compliance. Some security decisions requirehuman oversight.#D. Reducing the number of employees- Efficiency is important, butsecurity cannot be sacrificedto cut costs. Skilled SOC analysts and engineers arecritical to cybersecurity defense.
References & Learning Resources
#Splunk Docs - Security Essentials: https://docs.splunk.com/#Splunk ES Compliance Dashboards: https://splunkbase.splunk.com/app/3435/#Splunk SOAR Playbooks for Compliance: https://www.splunk.com/en_us/products/soar.html#NIST Cybersecurity Framework & Splunk Integration: https://www.nist.gov/cyberframework

NEW QUESTION # 76
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