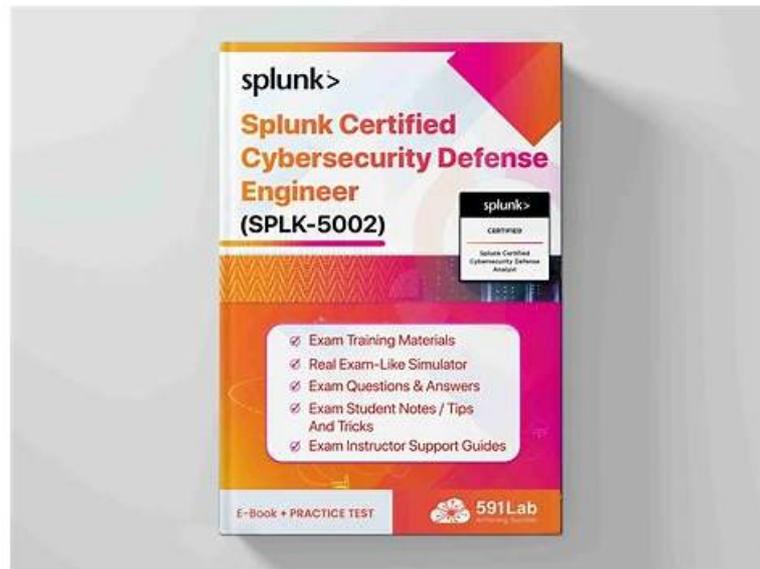


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## Splunk Certified Cybersecurity Defense Engineer Sample Questions (Q50-Q55):

### NEW QUESTION # 50

What is the purpose of leveraging REST APIs in a Splunk automation workflow?

- A. To compress data before indexing
- **B. To integrate Splunk with external applications and automate interactions**
- C. To configure storage retention policies
- D. To generate predefined reports

**Answer: B**

Explanation:

Splunk's REST API allows external applications and security tools to automate workflows, integrate with Splunk, and retrieve/search data programmatically.

#Why Use REST APIs in Splunk Automation?

Automates interactions between Splunk and other security tools.

Enables real-time data ingestion, enrichment, and response actions.

Used in Splunk SOAR playbooks for automated threat response.

Example:

A security event detected in Splunk ES triggers a Splunk SOAR playbook via REST API to:

Retrieve threat intelligence from VirusTotal.

Block the malicious IP in Palo Alto firewall.

Create an incident ticket in ServiceNow.

#Incorrect Answers:

A: To configure storage retention policies # Storage is managed via Splunk indexing, not REST APIs.

C: To compress data before indexing # Splunk does not use REST APIs for data compression.

D: To generate predefined reports # Reports are generated using Splunk's search and reporting functionality, not APIs.

#Additional Resources:

Splunk REST API Documentation

Automating Workflows with Splunk API

### NEW QUESTION # 51

A company wants to create a dashboard that displays normalized event data from various sources.

What approach should they use?

- A. Use SPL queries to manually extract fields.
- **B. Implement a data model using CIM.**
- C. Configure a summary index.
- D. Apply search-time field extractions.

**Answer: B**

Explanation:

When organizations need to normalize event data from various sources, using Common Information Model (CIM) in Splunk is the best approach.

Why Use CIM for Normalized Event Data?

Standardizes Data Across Different Log Sources

CIM ensures consistent field names and formats across varied log types.

Makes searches, reports, and dashboards easier to manage.

Enables Faster and More Efficient Searches

Uses Data Models to accelerate search queries.

Reduces the need for custom field extractions.

### NEW QUESTION # 52

What methods improve risk and detection prioritization?(Choose three)

- **A. Assigning risk scores to assets and events**
- **B. Automating detection tuning**
- C. Using predefined alert templates
- **D. Incorporating business context into decisions**
- E. Enforcing strict search head resource limits

**Answer: A,B,D**

Explanation:

Risk and detection prioritization in Splunk Enterprise Security (ES) helps SOC analysts focus on the most critical threats. By assigning risk scores, integrating business context, and automating detection tuning, organizations can prioritize security incidents efficiently.

Methods to Improve Risk and Detection Prioritization:

Assigning Risk Scores to Assets and Events (A)

Uses Risk-Based Alerting (RBA) to prioritize high-risk activities based on behavior and history.  
Helps SOC teams focus on true threats instead of isolated events.  
Incorporating Business Context into Decisions (C)  
Adds context from asset criticality, user roles, and business impact.  
Ensures alerts are ranked based on their potential business impact.  
Automating Detection Tuning (D)  
Uses machine learning and adaptive response actions to reduce false positives.  
Dynamically adjusts alert thresholds based on evolving threat patterns.

### NEW QUESTION # 53

A security analyst wants to validate whether a newly deployed SOAR playbook is performing as expected. What steps should they take?

- A. Automate all tasks within the playbook immediately
- **B. Test the playbook using simulated incidents**
- C. Monitor the playbook's actions in real-time environments
- D. Compare the playbook to existing incident response workflows

**Answer: B**

Explanation:

A SOAR (Security Orchestration, Automation, and Response) playbook is a set of automated actions designed to respond to security incidents. Before deploying it in a live environment, a security analyst must ensure that it operates correctly, minimizes false positives, and doesn't disrupt business operations.

#Key Reasons for Using Simulated Incidents:

Ensures that the playbook executes correctly and follows the expected workflow.

Identifies false positives or incorrect actions before deployment.

Tests integrations with other security tools (SIEM, firewalls, endpoint security).

Provides a controlled testing environment without affecting production.

How to Test a Playbook in Splunk SOAR?

1##Use the "Test Connectivity" Feature - Ensures that APIs and integrations work.2##Simulate an Incident - Manually trigger an alert similar to a real attack (e.g., phishing email or failed admin login).3##Review the Execution Path - Check each step in the playbook debugger to verify correct actions.4##Analyze Logs & Alerts - Validate that Splunk ES logs, security alerts, and remediation steps are correct.5##Fine-tune Based on Results - Modify the playbook logic to reduce unnecessary alerts or excessive automation.

Why Not the Other Options?

#B. Monitor the playbook's actions in real-time environments - Risky without prior validation. It can cause disruptions if the playbook misfires.#C. Automate all tasks immediately - Not best practice. Gradual deployment ensures better security control and monitoring.#D. Compare with existing workflows - Good practice, but it does not validate the playbook's real execution.

References & Learning Resources

#Splunk SOAR Documentation: <https://docs.splunk.com/Documentation/SOAR#Testing Playbooks in Splunk SOAR>:

[https://www.splunk.com/en\\_us/products/soar.html#SOAR Playbook Debugging Best Practices](https://www.splunk.com/en_us/products/soar.html#SOAR Playbook Debugging Best Practices):

<https://splunkbase.splunk.com>

### NEW QUESTION # 54

What is the primary purpose of Splunk SOAR (Security Orchestration, Automation, and Response)?

- A. To accelerate data ingestion
- B. To provide threat intelligence feeds
- C. To improve indexing performance
- **D. To automate and orchestrate security workflows**

**Answer: D**

Explanation:

Splunk SOAR (Security Orchestration, Automation, and Response) helps SOC teams automate threat detection, investigation, and response by integrating security tools and orchestrating workflows.

Primary Purpose of Splunk SOAR:

Automates Security Tasks (B)

Reduces manual efforts by using playbooks to handle routine incidents automatically.  
Accelerates threat mitigation by automating response actions (e.g., blocking malicious IPs, isolating endpoints).  
Orchestrates Security Workflows (B)  
Connects SIEM, threat intelligence, firewalls, endpoint security, and ITSM tools into a unified security workflow.  
Ensures faster and more effective threat response across multiple security tools.

## NEW QUESTION # 55

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