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## Splunk SPLK-5002 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• <b>Auditing and Reporting on Security Programs:</b> 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• <b>Detection Engineering:</b> 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• <b>Data Engineering:</b> 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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• <b>Automation and Efficiency:</b> 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.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>• <b>Building Effective Security Processes and Programs:</b> 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.</li></ul>

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### Splunk Certified Cybersecurity Defense Engineer Sample Questions (Q85-Q90):

#### NEW QUESTION # 85

What is the primary purpose of developing security metrics in a Splunk environment?

- A. To measure and evaluate the effectiveness of security programs
- B. To enhance data retention policies
- C. To automate case management workflows
- D. To identify low-priority alerts for suppression

**Answer: A**

Explanation:

Security metrics help organizations assess their security posture and make data-driven decisions.

Primary Purpose of Security Metrics in Splunk:

Measure Security Effectiveness (B)

Tracks incident response times, threat detection rates, and alert accuracy.

Helps SOC teams and leadership evaluate security program performance.

Improve Threat Detection & Incident Response

Identifies gaps in detection logic and false positives.

Helps fine-tune correlation searches and notable events.

#### NEW QUESTION # 86

What is the best method to operationalize the results of a threat hunt for daily use by SOC analysts?

- A. Create monthly reports based on the documented findings.
- B. Communicate findings based on the hunt.
- C. Create detections based on the documented findings.
- D. Communicate gaps to the architecture team.

**Answer: C**

Explanation:

The best way to operationalize the results of a threat hunt is to create detections based on the documented findings. This transforms hunting insights into actionable, repeatable detection logic that SOC analysts can use daily to identify similar threats in real time.

#### NEW QUESTION # 87

Which features of Splunk are crucial for tuning correlation searches? (Choose three)

- A. Disabling field extractions
- B. Enabling event sampling
- C. Using thresholds and conditions
- D. Reviewing notable event outcomes
- E. Optimizing search queries

**Answer: C,D,E**

Explanation:

Correlation searches are a key component of Splunk Enterprise Security (ES) that help detect and alert on security threats by analyzing machine data across various sources. Proper tuning of these searches is essential to reduce false positives, improve performance, and enhance the accuracy of security detections in a Security Operations Center (SOC).

Crucial Features for Tuning Correlation Searches

#### 1. Using Thresholds and Conditions (A)

Thresholds help control the sensitivity of correlation searches by defining when a condition is met.

Setting appropriate conditions ensures that only relevant events trigger notable events or alerts, reducing noise.

Example:

Instead of alerting on any failed login attempt, a threshold of 5 failed logins within 10 minutes can be set to identify actual brute-force attempts.

#### 2. Reviewing Notable Event Outcomes (B)

Notable events are generated by correlation searches, and reviewing them is critical for fine-tuning. Analysts in the SOC should frequently review false positives, duplicates, and low-priority alerts to refine rules.

Example:

If a correlation search is generating excessive alerts for normal user activity, analysts can modify it to exclude known safe behaviors.

#### 3. Optimizing Search Queries (E)

Efficient Splunk Search Processing Language (SPL) queries are crucial to improving search performance.

Best practices include:

Using index-time fields instead of extracting fields at search time.

Avoiding wildcards and unnecessary joins in searches.

Using tstats instead of regular searches to improve efficiency.

Example:

Using:

```
| tstats count where index=firewall by src_ip
```

instead of:

```
index=firewall | stats count by src_ip
```

can significantly improve performance.

### NEW QUESTION # 88

Which of the following macro values will exclude all of the company networks if it is called from the following search?

```
index=firewall sourcetype=pan:traffic NOT "company_networks"
```

- A. NOT (src\_ip IN (151.157.30.0/24, 26.06.18.0/24))
- B. NOT (src\_ip=151.157.30.0/24 AND src\_ip=26.06.18.0/24)
- C. (src\_ip IN (151.157.30.0/24, 26.06.18.0/24))
- D. (src\_ip=151.157.30.0/24 AND src\_ip=26.06.18.0/24)

**Answer: A**

Explanation:

To exclude all company networks from the search, the macro should negate the source IPs using NOT (src\_ip IN (...)). This ensures that any traffic originating from the specified company networks is filtered out of the results.

### NEW QUESTION # 89

Which Splunk feature helps in tracking and documenting threat trends over time?

- A. Risk-based dashboards
- B. Summary indexing
- C. Data model acceleration
- D. Event sampling

**Answer: A**

Explanation:

Why Use Risk-Based Dashboards for Tracking Threat Trends?

Risk-based dashboards in Splunk Enterprise Security (ES) provide a structured way to track threats over time.

#How Risk-Based Dashboards Help:#Aggregate security events into risk scores # Helps prioritize high-risk activities.#Show historical trends of threat activity.#Correlate multiple risk factors across different security events.

#Example in Splunk ES#Scenario: A SOC team tracks insider threat activity over 6 months.#The Risk-Based Dashboard shows: Users with rising risk scores over time.

Patterns of malicious behavior (e.g., repeated failed logins + data exfiltration).

Correlation between different security alerts (e.g., phishing clicks # malware execution).

Why Not the Other Options?

#A. Event sampling - Helps with performance optimization, not threat trend tracking.#C. Summary indexing

- Stores precomputed data but is not designed for tracking risk trends.#D. Data model acceleration - Improves search speed, but doesn't track security trends.

References & Learning Resources

#Splunk ES Risk-Based Alerting Guide: <https://docs.splunk.com/Documentation/ES/Tracking Security Trends Using Risk-Based>

Dashboards: <https://splunkbase.splunk.com/#How to Build Risk-Based Analytics in Splunk:>

[https://www.splunk.com/en\\_us/blog/security](https://www.splunk.com/en_us/blog/security)

## NEW QUESTION # 90

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