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Splunk SPLK-5002 Prüfungsplan:

Thema	Einzelheiten
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Thema 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.
Thema 2	• 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.
Thema 3	• 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.
Thema 4	• 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.
Thema 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 SPLK-5002 Prüfungsfragen mit Lösungen (Q81-Q86):

81. Frage

During a high-priority incident, a user queries an index but sees incomplete results. What is the most likely issue?

- A. The search head configuration is outdated.
- **B. Indexers have reached their queue capacity.**
- C. Buckets in the warm state are inaccessible.
- D. Data normalization was not applied.

Antwort: B

Begründung:

If a user queries an index during a high-priority incident but sees incomplete results, it is likely that the indexers are overloaded, causing queue bottlenecks.

Why Indexer Queue Capacity Issues Cause Incomplete Results:

When indexing queues fill up, incoming data cannot be processed efficiently.

Search results may be incomplete or delayed if events are still in the indexing queue and not fully written to disk.

Heavy search loads during incidents can also increase pressure on indexers.

How to Fix It:

Monitor indexing queues via the Monitoring Console (indexing>indexing performance).

Check metrics.log on indexers for `max_queue_size_exceeded` warnings.

Increase indexer capacity or optimize search scheduling to reduce load.

82. Frage

What is the main purpose of Splunk's Common Information Model (CIM)?

- A. To compress data during indexing
- B. To create accelerated reports
- **C. To normalize data for correlation and searches**

- D. To extract fields from raw events

Antwort: C

Begründung:

What is the Splunk Common Information Model (CIM)?

Splunk's Common Information Model (CIM) is a standardized way to normalize and map event data from different sources to a common field format. It helps with:

Consistent searches across diverse log sources

Faster correlation of security events

Better compatibility with prebuilt dashboards, alerts, and reports

Why is Data Normalization Important?

Security teams analyze data from firewalls, IDS/IPS, endpoint logs, authentication logs, and cloud logs.

These sources have different field names (e.g., "src_ip" vs. "source_address").

CIM ensures a standardized format, so correlation searches work seamlessly across different log sources.

How CIM Works in Splunk?

#Maps event fields to a standardized schema#Supports prebuilt Splunk apps like Enterprise Security (ES)

#Helps SOC teams quickly detect security threats

#Example Use Case:

A security analyst wants to detect failed admin logins across multiple authentication systems.

Without CIM, different logs might use:

user_login_failed

auth_failure

login_error

With CIM, all these fields map to the same normalized schema, enabling one unified search query.

Why Not the Other Options?

#A. Extract fields from raw events - CIM does not extract fields; it maps existing fields into a standardized format.#C. Compress data during indexing - CIM is about data normalization, not compression.#D. Create accelerated reports - While CIM supports acceleration, its main function is standardizing log formats.

References & Learning Resources

#Splunk CIM Documentation: <https://docs.splunk.com/Documentation/CIM>#How Splunk CIM Helps with Security Analytics:

https://www.splunk.com/en_us/solutions/common-information-model.html#Splunk Enterprise Security & CIM Integration:

<https://splunkbase.splunk.com/app/263>

83. Frage

Which sourcetype configurations affect data ingestion?(Choosethree)

- A. Event breaking rules
- B. Timestamp extraction
- C. Line merging rules
- D. Data retention policies

Antwort: A,B,C

Begründung:

The sourcetype in Splunk defines how incoming machine data is interpreted, structured, and stored. Proper sourcetype configurations ensure accurate event parsing, indexing, and searching.

#1. Event Breaking Rules (A)

Determines how Splunk splits raw logs into individual events.

If misconfigured, a single event may be broken into multiple fragments or multiple log lines may be combined incorrectly.

Controlled using LINE_BREAKER and BREAK_ONLY_BEFORE settings.

#2. Timestamp Extraction (B)

Extracts and assigns timestamps to events during ingestion.

Incorrect timestamp configuration leads to misplaced events in time-based searches.

Uses TIME_PREFIX, MAX_TIMESTAMP_LOOKAHEAD, and TIME_FORMAT settings.

#3. Line Merging Rules (D)

Controls whether multiline events should be combined into a single event.

Useful for logs like stack traces or multi-line syslog messages.

Uses SHOULD_LINEMERGE and LINE_BREAKER settings.

C: Data Retention Policies #

Affects storage and deletion, not data ingestion itself.

#Additional Resources:

Splunk Sourcetype Configuration Guide

Event Breaking and Line Merging

84. Frage

What methods enhance risk-based detection in Splunk?(Choosetwo)

- A. Using summary indexing for raw events
- **B. Enriching risk objects with contextual data**
- **C. Defining accurate risk modifiers**
- D. Limiting the number of correlation searches

Antwort: B,C

Begründung:

Risk-based detection in Splunk prioritizes alerts based on behavior, threat intelligence, and business impact.

Enhancing risk scores and enriching contextual data ensures that SOC teams focus on the most critical threats.

Methods to Enhance Risk-Based Detection:

Defining Accurate Risk Modifiers (A)

Adjusts risk scores dynamically based on asset value, user behavior, and historical activity.

Ensures that low-priority noise doesn't overwhelm SOC analysts.

Enriching Risk Objects with Contextual Data (D)

Adds threat intelligence feeds, asset criticality, and user behavior data to alerts.

Improves incident triage and correlation of multiple low-level events into significant threats.

85. Frage

An organization uses MITRE ATT&CK to enhance its threat detection capabilities.

Howshould this methodology be incorporated?

- A. Deploy it as a replacement for current detection systems.
- B. Rely solely on vendor-provided threat intelligence.
- **C. Develop custom detection rules based on attack techniques.**
- D. Use it only for reporting after incidents.

Antwort: C

Begründung:

MITRE ATT&CK is a threat intelligence framework that helps security teams map attack techniques to detection rules.

#1. Develop Custom Detection Rules Based on Attack Techniques (A)

Maps Splunk correlation searches to MITRE ATT&CK techniques to detect adversary behaviors.

Example:

To detect T1078 (Valid Accounts):

index=auth_logs action=failed | stats count by user, src_ip

If an account logs in from anomalous locations, trigger an alert.

#Incorrect Answers:

B: Use it only for reporting after incidents # MITRE ATT&CK should be used proactively for threat detection.

C: Rely solely on vendor-provided threat intelligence # Custom rules tailored to an organization's threat landscape are more effective.

D: Deploy it as a replacement for current detection systems # MITRE ATT&CK complements existing SIEM /EDR tools, not replaces them.

#Additional Resources:

MITRE ATT&CK & Splunk

Using MITRE ATT&CK in SIEMs

86. Frage

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