

## **Scenario-Based Multiple Choice Questions (MCQs) on Splunk Queries**

### **1. Identifying Failed Logins**

You need to find failed login attempts in Splunk logs for a specific user named john\_doe. Which query should you use?

- A) index=security sourcetype=auth "john\_doe" status="success"
- B) index=security sourcetype=auth user="john\_doe" status="failed"
- C) index=security sourcetype=auth user="john\_doe" | stats count by status
- D) index=security sourcetype=auth status="failed" | stats count by user

**Answer: B**

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### **2. Extracting IP Addresses**

Which query extracts IP addresses using regex?

- A) index=web\_logs | rex field=\_raw "(?P<ip>\d+\.\d+\.\d+\.\d+)"
- B) index=web\_logs | extract field=ip pattern="\d+\.\d+\.\d+\.\d+"
- C) index=web\_logs | regex ip="\d+\.\d+\.\d+\.\d+"
- D) index=web\_logs | fields ip

**Answer: A**

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### **3. Filtering Specific Error Codes**

You want to find all occurrences of HTTP 500 errors. Which query is correct?

- A) index=web\_logs status="500"
- B) index=web\_logs | where status==500
- C) index=web\_logs | search status=500
- D) index=web\_logs | where status=500

**Answer: C**

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### **4. Counting Events per Host**

Which query provides the number of events per host?

- A) index=system\_logs | stats count by host
- B) index=system\_logs | timechart count by host
- C) index=system\_logs | chart count by host
- D) index=system\_logs | count host

**Answer: A**

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## 5. Identifying the Top 5 Hosts with Most Errors

How can you find the top 5 hosts generating error logs?

- A) index=logs error | stats count by host | sort -count | head 5
- B) index=logs error | top limit=5 host
- C) index=logs error | rare limit=5 host
- D) index=logs error | chart count by host limit=5

**Answer: B**

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## 6. Finding Unique Users

Which query returns a list of unique users from the logs?

- A) index=auth\_logs | unique user
- B) index=auth\_logs | dedup user
- C) index=auth\_logs | stats distinct\_count(user)
- D) index=auth\_logs | stats count(user)

**Answer: C**

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## 7. Formatting Timestamps

How do you convert \_time to a readable format?

- A) index=logs | eval time=strftime(\_time, "%Y-%m-%d %H:%M:%S")
- B) index=logs | convert timeformat="%Y-%m-%d %H:%M:%S" \_time
- C) index=logs | format\_time(\_time, "%Y-%m-%d %H:%M:%S")
- D) index=logs | timechart format="%Y-%m-%d %H:%M:%S"

**Answer: A**

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## 8. Calculating Average Response Time

Which query calculates the average response time?

- A) index=web\_logs | stats avg(response\_time)
- B) index=web\_logs | chart mean(response\_time)
- C) index=web\_logs | timechart avg(response\_time)
- D) All of the above

**Answer: D**

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## 9. Merging Two Fields

You want to create a new field full\_name by combining first\_name and last\_name. What is the correct query?

- A) index=users | eval full\_name=first\_name+last\_name
- B) index=users | eval full\_name=first\_name." ".last\_name
- C) index=users | eval full\_name=first\_name." ".last\_name | table full\_name
- D) index=users | merge first\_name last\_name into full\_name

**Answer: C**

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### 10. Identifying the Slowest Query

Which query helps find the slowest queries?

- A) index=database\_logs | stats max(query\_time) by query
- B) index=database\_logs | chart max(query\_time) by query
- C) index=database\_logs | sort -query\_time | table query, query\_time
- D) All of the above

**Answer: D**

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### 11. Calculating Percentage of Errors

How do you calculate the percentage of errors in logs?

- A) index=logs | eventstats count as total | where status="error" | eval percentage=(count/total)\*100
- B) index=logs | stats count as total, count(eval(status="error")) as error\_count | eval error\_pct=(error\_count/total)\*100
- C) index=logs | where status="error" | stats percent(count)
- D) index=logs | eval error\_rate=(count(eval(status="error"))/count)\*100

**Answer: B**

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### 12. Extracting a Specific Field

How do you extract a custom field from raw logs?

- A) index=logs | rex field=\_raw "(?P<field\_name>\w+)"
- B) index=logs | extract field=field\_name
- C) index=logs | define field=field\_name
- D) index=logs | regex extract=field\_name

**Answer: A**

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### 13. Searching Last 30 Minutes of Logs

Which command retrieves logs from the last 30 minutes?

- A) index=logs earliest=-30m latest=now
- B) index=logs | timewindow -30m
- C) index=logs | where time>-30m
- D) index=logs since -30m

**Answer: A**

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#### **14. Finding IPs Generating the Most Requests**

Which query shows the top 10 IPs making requests?

- A) index=web\_logs | top limit=10 ip
- B) index=web\_logs | stats count by ip | sort -count | head 10
- C) index=web\_logs | rare limit=10 ip
- D) Both A and B

**Answer: D**

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#### **15. Identifying Anomalous Activity**

Which function helps detect anomalies?

- A) index=security | anomaly\_detection user
- B) index=security | stats count by user | anomalydetect
- C) index=security | anomalydetection
- D) index=security | anomalydetection

**Answer: B**

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#### **16. Parsing JSON Logs**

How do you extract fields from JSON logs?

- A) index=json\_logs | spath
- B) index=json\_logs | json extract
- C) index=json\_logs | parse json
- D) index=json\_logs | extract fields=json

**Answer: A**

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#### **17. Converting String to Number**

Which function converts a string field to a number?

- A) index=logs | convert num(field)
- B) index=logs | eval field=tonumber(field)
- C) index=logs | cast field as number
- D) index=logs | eval field=toint(field)

**Answer: A**

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### 18. Renaming a Field

How do you rename the field old\_name to new\_name?

- A) index=logs | rename old\_name as new\_name
- B) index=logs | replace old\_name with new\_name
- C) index=logs | change old\_name to new\_name
- D) index=logs | eval new\_name=old\_name

**Answer: A**

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### 19. Finding Logs for Specific Dates

Which query retrieves logs from Feb 1 to Feb 5, 2025?

- A) index=logs earliest="02/01/2025" latest="02/05/2025"
- B) index=logs earliest=2025-02-01 latest=2025-02-05
- C) index=logs range 2025-02-01 to 2025-02-05
- D) index=logs date>=2025-02-01 AND date<=2025-02-05

**Answer: B**

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### 20. Removing Duplicates

Which command removes duplicate results?

- A) index=logs | dedup field
- B) index=logs | unique field
- C) index=logs | distinct field
- D) index=logs | filter distinct field

**Answer: A**