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The SPLK-4001 exam covers the essential concepts, tools, and techniques required to collect, analyze, and visualize metrics data using Splunk. SPLK-4001 exam measures the individual's proficiency in areas such as configuring and managing metrics data sources, working with metrics data in Splunk, creating and configuring visualizations, and troubleshooting issues related to metrics data. Splunk is a leading observability platform, and the SPLK-4001 certification is a valuable asset for professionals who work with cloud environments.

Splunk SPLK-4001 certification exam is designed for individuals who have expertise in using Splunk to monitor and analyze metrics in cloud environments. Splunk O11y Cloud Certified Metrics User certification is ideal for professionals who are interested in validating their knowledge of Splunk's metrics monitoring capabilities and their ability to leverage them to improve operational efficiency and performance. SPLK-4001 Exam requires candidates to demonstrate their ability to configure and manage Splunk's metrics collection and analysis tools, as well as their knowledge of best practices for utilizing these tools in a cloud environment.

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Splunk O11y Cloud Certified Metrics User Sample Questions (Q41-Q46):

NEW QUESTION # 41

A customer operates a caching web proxy. They want to calculate the cache hit rate for their service. What is the best way to achieve this?

- A. Timeshift and Bottom N
- **B. Percentages and ratios**
- C. Timeshift and Top N
- D. Chart Options and metadata

Answer: B

Explanation:

According to the Splunk O11y Cloud Certified Metrics User Track document¹, percentages and ratios are useful for calculating the proportion of one metric to another, such as cache hits to cache misses, or successful requests to failed requests. You can use the `percentage()` or `ratio()` functions in SignalFlow to compute these values and display them in charts. For example, to calculate the cache hit rate for a service, you can use the following SignalFlow code:

```
percentage(counters("cache.hits"), counters("cache.misses"))
```

This will return the percentage of cache hits out of the total number of cache attempts. You can also use the `ratio()` function to get the same result, but as a decimal value instead of a percentage.

```
ratio(counters("cache.hits"), counters("cache.misses"))
```

NEW QUESTION # 42

With exceptions for transformations or timeshifts, at what resolution do detectors operate?

- **A. Native resolution**
- B. The resolution of the dashboard
- C. 10 seconds
- D. The resolution of the chart

Answer: A

Explanation:

Explanation

According to the Splunk Observability Cloud documentation¹, detectors operate at the native resolution of the metric or dimension that they monitor, with some exceptions for transformations or timeshifts. The native resolution is the frequency at which the data points are reported by the source. For example, if a metric is reported every 10 seconds, the detector will evaluate the metric every 10 seconds. The native resolution ensures that the detector uses the most granular and accurate data available for alerting.

NEW QUESTION # 43

An SRE creates a new detector to receive an alert when server latency is higher than 260 milliseconds.

Latency below 260 milliseconds is healthy for their service. The SRE creates a New Detector with a Custom Metrics Alert Rule for latency and sets a Static Threshold alert condition at 260ms.

How can the number of alerts be reduced?

- A. Adjust the notification sensitivity. Duration set to 1 minute.
- B. Adjust the threshold.
- C. Choose another signal.
- **D. Adjust the Trigger sensitivity. Duration set to 1 minute.**

Answer: D

Explanation:

Explanation

According to the Splunk O11y Cloud Certified Metrics User Track document¹, trigger sensitivity is a setting that determines how long a signal must remain above or below a threshold before an alert is triggered. By default, trigger sensitivity is set to Immediate, which means that an alert is triggered as soon as the signal crosses the threshold. This can result in a lot of alerts, especially if the signal fluctuates frequently around the threshold value. To reduce the number of alerts, you can adjust the trigger sensitivity to a longer duration, such as 1 minute, 5 minutes, or 15 minutes. This means that an alert is only triggered if the signal stays above or below the threshold for the specified duration. This can help filter out noise and focus on more persistent issues.

NEW QUESTION # 44

To smooth a very spiky cpu.utilization metric, what is the correct analytic function to better see if the cpu. utilization for servers is trending up over time?

- A. Median
- B. Rate/Sec
- C. Mean (by host)
- **D. Mean (Transformation)**

Answer: D

Explanation:

The correct answer is D. Mean (Transformation).

According to the web search results, a mean transformation is an analytic function that returns the average value of a metric or a dimension over a specified time interval¹. A mean transformation can be used to smooth a very spiky metric, such as cpu.utilization, by reducing the impact of outliers and noise. A mean transformation can also help to see if the metric is trending up or down over time, by showing the general direction of the average value. For example, to smooth the cpu.utilization metric and see if it is trending up over time, you can use the following SignalFlow code:

```
mean(1h, counters("cpu.utilization"))
```

This will return the average value of the cpu.utilization counter metric for each metric time series (MTS) over the last hour. You can then use a chart to visualize the results and compare the mean values across different MTS.

Option A is incorrect because rate/sec is not an analytic function, but rather a rollup function that returns the rate of change of data points in the MTS reporting interval¹. Rate/sec can be used to convert cumulative counter metrics into counter metrics, but it does not smooth or trend a metric. Option B is incorrect because median is not an analytic function, but rather an aggregation function that returns the middle value of a metric or a dimension over the entire time range¹. Median can be used to find the typical value of a metric, but it does not smooth or trend a metric. Option C is incorrect because mean (by host) is not an analytic function, but rather an aggregation function that returns the average value of a metric or a dimension across all MTS with the same host dimension¹. Mean (by host) can be used to compare the performance of different hosts, but it does not smooth or trend a metric.

Mean (Transformation) is an analytic function that allows you to smooth a very spiky metric by applying a moving average over a specified time window. This can help you see the general trend of the metric over time, without being distracted by the short-term fluctuations¹. To use Mean (Transformation) on a cpu.utilization metric, you need to select the metric from the Metric Finder, then click on Add Analytics and choose Mean (Transformation) from the list of functions. You can then specify the time window for the moving average, such as 5 minutes, 15 minutes, or 1 hour. You can also group the metric by host or any other dimension to compare the smoothed values across different servers². To learn more about how to use Mean (Transformation) and other analytic functions in Splunk Observability Cloud, you can refer to this documentation².

1: <https://docs.splunk.com/Observability/gdi/metrics/analytics.html#Mean-Transformation> 2:

<https://docs.splunk.com/Observability/gdi/metrics/analytics.html>

NEW QUESTION # 45

What information is needed to create a detector?

- **A. Alert Signal, Alert Condition, Alert Settings, Alert Message, Alert Recipients**
- B. Alert Status, Alert Condition, Alert Settings, Alert Meaning, Alert Recipients

- C. Alert Signal, Alert Criteria, Alert Settings, Alert Message, Alert Recipients
- D. Alert Status, Alert Criteria, Alert Settings, Alert Message, Alert Recipients

Answer: A

Explanation:

According to the Splunk Observability Cloud documentation¹, to create a detector, you need the following information:

Alert Signal: This is the metric or dimension that you want to monitor and alert on. You can select a signal from a chart or a dashboard, or enter a SignalFlow query to define the signal.

Alert Condition: This is the criteria that determines when an alert is triggered or cleared. You can choose from various built-in alert conditions, such as static threshold, dynamic threshold, outlier, missing data, and so on. You can also specify the severity level and the trigger sensitivity for each alert condition.

Alert Settings: This is the configuration that determines how the detector behaves and interacts with other detectors. You can set the detector name, description, resolution, run lag, max delay, and detector rules. You can also enable or disable the detector, and mute or unmute the alerts.

Alert Message: This is the text that appears in the alert notification and event feed. You can customize the alert message with variables, such as signal name, value, condition, severity, and so on. You can also use markdown formatting to enhance the message appearance.

Alert Recipients: This is the list of destinations where you want to send the alert notifications. You can choose from various channels, such as email, Slack, PagerDuty, webhook, and so on. You can also specify the notification frequency and suppression settings.

NEW QUESTION # 46

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