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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q60-Q65):

NEW QUESTION # 60
What should you do with counters that have labels?

- A. Make sure every counter with labels has an extra counter, aggregated, without labels.
- B. Instantiate them with their possible label values when creating them so they are exposed with a zero value.
- C. Save their state between application runs so you can restore their last value on startup.
- D. Investigate if you can move their label value inside their metric name to limit the number of labels.

Answer: B

Explanation:
Prometheus counters with labels can cause missing time series in queries if some label combinations have not yet been observed. To ensure visibility and continuity, the recommended best practice is to instantiate counters with all expected label values at application startup, even if their initial value is zero.
This ensures that every possible labeled time series is exported consistently, which helps when dashboards or alerting rules expect the presence of those series. For example, if a counter like http_requests_total{method="POST",status="200"} has not yet received a POST request, initializing it with a zero ensures it is still exposed.

Option A is incorrect - label values should never be encoded into metric names.

Option B adds redundancy and does not solve the initialization issue.

Option D is discouraged; counters should reset naturally upon restart, reflecting Prometheus's ephemeral metric model.

Reference:

Verified from Prometheus documentation - Instrumentation Best Practices, Counters with Labels, and Avoid Missing Time Series by Initializing Metrics.

NEW QUESTION # 61

If the vector selector foo[5m] contains 1 1 NaN, what would max_over_time(foo[5m]) return?

- A. NaN
- B. 0
- C. No answer.
- D. It errors out.

Answer: B

Explanation:

In PromQL, range vector functions like max_over_time() compute an aggregate value (in this case, the maximum) over all samples within a specified time range. The function ignores NaN (Not-a-Number) values when computing the result.

Given the range vector foo[5m] containing samples [1, 1, NaN], the maximum value among the valid numeric samples is 1.

Therefore, max_over_time(foo[5m]) returns 1.

Prometheus functions handle missing or invalid data points gracefully-ignoring NaN ensures stable calculations even when intermittent collection issues or resets occur. The function only errors if the selector is syntactically invalid or if no numeric samples exist at all.

Reference:

Verified from Prometheus documentation - PromQL Range Vector Functions, Aggregation Over Time Functions, and Handling NaN Values in PromQL sections.

NEW QUESTION # 62

Which PromQL expression computes how many requests in total are currently in-flight for the following time series data?

apiserver_current_inflight_requests{instance="1"} 5

apiserver_current_inflight_requests{instance="2"} 7

- A. sum_over_time(apiserver_current_inflight_requests[10m])
- B. min(apiserver_current_inflight_requests)
- C. max(apiserver_current_inflight_requests)
- D. sum(apiserver_current_inflight_requests)

Answer: D

Explanation:

In Prometheus, when you have multiple time series that represent the same type of measurement across different instances, the sum() aggregation operator is used to compute their total value.

Here, each instance (1 and 2) exposes the metric apiserver_current_inflight_requests, indicating the number of active API requests currently being processed.

To find the total number of in-flight requests across all instances, the correct expression is:

sum(apiserver_current_inflight_requests)

This returns 5 + 7 = 12.

min() would return the lowest value (5).

max() would return the highest value (7).

sum_over_time() calculates the cumulative sum over a range vector, not the current value, so it's incorrect here.

Reference:

Verified from Prometheus documentation - Aggregation Operators and Summing Across Dimensions sections.

NEW QUESTION # 63

What does the rate() function in PromQL return?

- A. The number of samples in a range vector.
- B. The average of all values in a vector.
- C. The total increase of a counter over a range.
- D. The per-second rate of increase of a counter metric.

Answer: D

Explanation:
The rate() function calculates the average per-second rate of increase of a counter over the specified range. It smooths out short-term fluctuations and adjusts for counter resets.
Example:
rate(http_requests_total[5m])
returns the number of requests per second averaged over the last five minutes. This function is frequently used in dashboards and alerting expressions.

NEW QUESTION # 64
What is the maximum number of Alertmanagers that can be added to a Prometheus instance?

- A. More than 3
- B. 0
- C. 1
- D. 2

Answer: A

Explanation:
Prometheus supports integration with multiple Alertmanager instances for redundancy and high availability. The alerting section of the Prometheus configuration file (prometheus.yml) allows specifying a list of Alertmanager targets, enabling Prometheus to send alerts to several Alertmanager nodes simultaneously.
There is no hard-coded limit on the number of Alertmanagers that can be added. The typical best practice is to run a minimum of three Alertmanagers in a clustered setup to achieve fault tolerance and ensure reliable alert delivery, but Prometheus can be configured with more than three if desired.
Each Alertmanager node in the cluster communicates state information (active, silenced, inhibited alerts) with its peers to maintain consistency.
Reference:
Verified from Prometheus documentation - Alertmanager Integration, High Availability Setup, and Prometheus Configuration - alerting Section.

NEW QUESTION # 65
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