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Linux Foundation PCA Prometheus Certified Associate (PCA)

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Linux Foundation Prometheus Certified Associate Exam Sample Questions

(Q41-Q46):

NEW QUESTION # 41

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

Answer: B

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 # 42

The following is a list of metrics exposed by an application:

`http_requests_total{code="500"} 10`

`http_requests_total{code="200"} 20`

`http_requests_total{code="400"} 30`

`http_requests_total{verb="POST"} 30`

`http_requests_total{verb="GET"} 30`

What is the issue with the metric family?

- A. Metric names are missing a prefix to indicate which application is exposing the query.
- B. The value represents two different things across the dimensions: code and verb.

Answer: B

Explanation:

Prometheus requires that a single metric name represents one well-defined thing, and all time series in that metric share the same set of label keys so the value's meaning is consistent across dimensions. The official guidance states that metrics should not "mix different dimensions under the same name," and that a metric name should have a consistent label schema; otherwise, "the same metric name would represent different things," making queries ambiguous and aggregations error-prone. In the example,

`http_requests_total{code="..."}` expresses per-status-code request counts, while `http_requests_total{verb="..."}` expresses per-HTTP-method request counts. Because some series have only code and others only verb, the value changes its meaning across label sets, violating the consistency principle for a metric family. The correct approach is to expose one metric with both labels present on every series, e.g., `http_requests_total{code="200", method="GET"}`, ensuring every time series has the same label keys and the value always means "count of requests," sliced by the same dimensions. A missing application prefix is optional and not the core issue here.

NEW QUESTION # 43

Which function would you use to calculate the 95th percentile latency from histogram data?

- A. `topk(0.95, http_request_duration_seconds)`
- B. `percentile(http_request_duration_seconds, 0.95)`

- C. `histogram_quantile(0.95, sum(rate(http_request_duration_seconds_bucket[5m])) by (le))`
- D. `quantile_over_time(0.95, http_request_duration_seconds[5m])`

Answer: C

Explanation:

To calculate a percentile (e.g., 95th percentile) from histogram data in Prometheus, the correct function is `histogram_quantile()`. It estimates quantiles based on cumulative bucket counts.

Example:

`histogram_quantile(0.95, sum(rate(http_request_duration_seconds_bucket[5m])) by (le))` This computes the 95th percentile request duration across all observed instances over the last 5 minutes.

NEW QUESTION # 44

Which of the following metrics is unsuitable for a Prometheus setup?

- A. `http_response_total{handler="static/*filepath"}`
- B. `prometheus_engine_query_log_enabled`
- C. `promhttp_metric_handler_requests_total{code="500"}`
- D. `user_last_login_timestamp_seconds{email="john.doe@example.com"}`

Answer: D

Explanation:

The metric `user_last_login_timestamp_seconds{email="john.doe@example.com"}` is unsuitable for Prometheus because it includes a high-cardinality label (email). Each unique email address would generate a separate time series, potentially numbering in the millions, which severely impacts Prometheus performance and memory usage.

Prometheus is optimized for low- to medium-cardinality metrics that represent system-wide behavior rather than per-user data.

High-cardinality metrics cause data explosion, complicating queries and overwhelming the storage engine.

By contrast, the other metrics-`prometheus_engine_query_log_enabled`, `promhttp_metric_handler_requests_total{code="500"}`, and `http_response_total{handler="static/*filepath"}`-adhere to Prometheus best practices. They represent operational or service-level metrics with limited, manageable label value sets.

Reference:

Extracted and verified from Prometheus documentation - Metric and Label Naming Best Practices, Cardinality Management, and Anti-Patterns for Metric Design sections.

NEW QUESTION # 45

How can you send metrics from your Prometheus setup to a remote system, e.g., for long-term storage?

- A. With "remote write"
- B. With S3 Buckets
- C. With "federation"
- D. With "scraping"

Answer: A

Explanation:

Prometheus provides a feature called Remote Write to transmit scraped and processed metrics to an external system for long-term storage, aggregation, or advanced analytics. When configured, Prometheus continuously pushes time series data to the remote endpoint defined in the `remote_write` section of the configuration file.

This mechanism is often used to integrate with long-term data storage backends such as Cortex, Thanos, Mimir, or InfluxDB, enabling durable retention and global query capabilities beyond Prometheus's local time series database limits.

In contrast, "scraping" refers to data collection from targets, while "federation" allows hierarchical Prometheus setups (pulling metrics from other Prometheus instances) but does not serve as long-term storage. Using "S3 Buckets" directly is also unsupported in native Prometheus configurations.

Reference:

Extracted and verified from Prometheus documentation - Remote Write/Read APIs and Long-Term Storage Integrations sections.

NEW QUESTION # 46

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