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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q35-Q40):

NEW QUESTION # 35

How would you name a metric that measures gRPC response size?

- A. `grpc_response_size_total`
- B. `grpc_response_size_sum`
- C. `grpc_response_size_bytes`
- D. `grpc_response_size`

Answer: C

Explanation:

Following Prometheus's metric naming conventions, every metric should indicate:

What it measures (the quantity or event).

The unit of measurement in base SI units as a suffix.

Since the metric measures response size, the base unit is bytes. Therefore, the correct and compliant metric name is:

`grpc_response_size_bytes`

This clearly communicates that it measures gRPC response payload sizes expressed in bytes.

The `_bytes` suffix is the Prometheus-recommended unit indicator for data sizes. The other options violate naming rules:

`_total` is reserved for counters.

`_sum` is used internally by histograms or summaries.

Omitting the unit (`grpc_response_size`) is discouraged, as it reduces clarity.

Reference:

Extracted and verified from Prometheus documentation - Metric Naming Conventions, Instrumentation Best Practices, and Standard Units for Size and Time Measurements.

NEW QUESTION # 36

Where does Prometheus store its time series data by default?

- A. In-memory only.
- B. In etcd.
- C. In an external database such as InfluxDB.
- **D. In an embedded TSDB on local disk.**

Answer: D

Explanation:

By default, Prometheus stores its time series data in a local, embedded Time Series Database (TSDB) on disk. The data is organized in block files under the `data/` directory inside Prometheus's storage path.

Each block typically covers two hours of data, containing chunks, index, and metadata files. Older blocks are compacted and deleted based on retention settings.

NEW QUESTION # 37

What is `api_http_requests_total` in the following metric?

```
api_http_requests_total{method="POST", handler="/messages"}
```

- **A. "api_http_requests_total" is a metric name.**
- B. "api_http_requests_total" is a metric field.
- C. "api_http_requests_total" is a metric type.
- D. "api_http_requests_total" is a metric label name.

Answer: A

Explanation:

In Prometheus, the part before the curly braces `{}` represents the metric name. Therefore, in the metric

`api_http_requests_total{method="POST", handler="/messages"}`, the term `api_http_requests_total` is the metric name. Metric names describe the specific quantity being measured - in this example, the total number of HTTP requests received by an API.

The portion within the braces defines labels, which provide additional dimensions to the metric. Here, `method="POST"` and `handler="/messages"` are labels describing request attributes. The metric name should follow Prometheus conventions: lowercase letters, numbers, and underscores only, and ending in `_total` for counters.

This naming scheme ensures clarity and standardization across instrumented applications. The metric type (e.g., counter, gauge) is declared separately in the exposition format, not within the metric name itself.

Reference:

Verified from Prometheus documentation - Metric and Label Naming, Data Model, and Instrumentation Best Practices sections.

NEW QUESTION # 38

What does the `increase()` function do in PromQL?

- **A. Returns the absolute increase in a counter over a specified range.**
- B. Calculates the derivative of a gauge over time.

- C. Returns the total sum of values in a vector.
- D. Calculates the percentage increase of a counter over time.

Answer: A

Explanation:

The `increase()` function computes the total increase in a counter metric over a specified range vector. It accounts for counter resets and only measures the net change in the counter's value during the time window.

Example:

```
increase(http_requests_total[5m])
```

This query returns how many HTTP requests occurred in the last five minutes. Unlike `rate()`, which provides a per-second average rate, `increase()` gives the absolute number of increments.

NEW QUESTION # 39

What is the best way to expose a timestamp from your application?

- A. With a constant metric of value 1 and the timestamp as metric timestamp.
- **B. With a gauge that has the timestamp as value.**
- C. With a counter that is increased to the correct value.
- D. With a constant metric of value 1 and the timestamp as label.

Answer: B

Explanation:

The correct way to expose a timestamp from an application in Prometheus is to use a gauge metric where the timestamp value (in Unix time, seconds since epoch) is stored as the metric's value. This approach aligns with the Prometheus data model, which discourages embedding timestamps as labels or metadata.

Example:

```
app_last_successful_backup_timestamp_seconds 1.696358e+09
```

In this example, the gauge represents the timestamp of the last successful backup. The `_seconds` suffix indicates the unit of measurement, making the metric self-descriptive. Prometheus automatically assigns timestamps to scraped samples, so the metric's value is treated purely as data, not as a Prometheus sample time.

Options B and D are incorrect because Prometheus does not allow arbitrary timestamps or labels for time values. Option C is incorrect since counters are monotonically increasing and not suited for discrete timestamp values.

Reference:

Verified from Prometheus documentation - Instrumentation Best Practices (Exposing Timestamps), Gauge Metric Semantics, and Metric Naming Conventions - `_seconds` suffix.

NEW QUESTION # 40

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