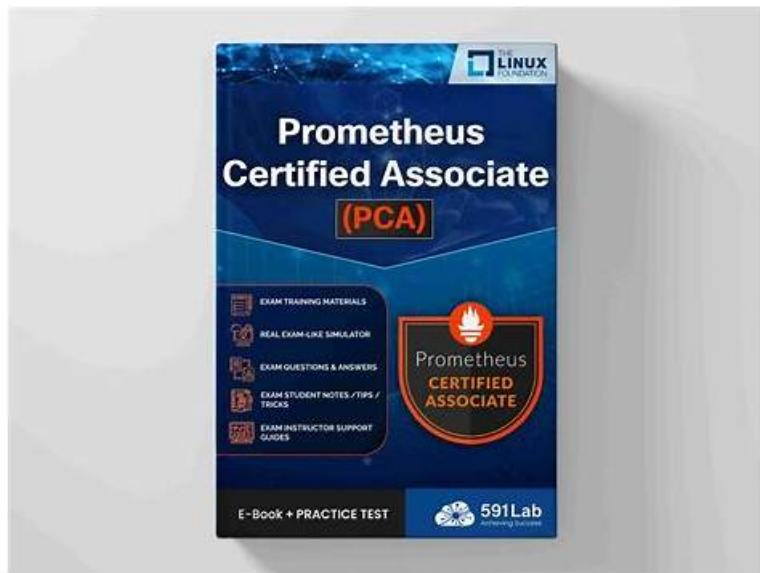


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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q60-Q65):

NEW QUESTION # 60

Which metric type uses the delta() function?

- A. Info
- B. Counter
- **C. Gauge**
- D. Histogram

Answer: C

Explanation:

The `delta()` function in PromQL calculates the difference between the first and last samples in a range vector over a specified time window. This function is primarily used with gauge metrics, as they can move both up and down, and `delta()` captures that net change directly.

For example, if a gauge metric like `node_memory_Active_bytes` changes from 1000 to 1200 within a 5-minute window, `delta(node_memory_Active_bytes[5m])` returns 200.

Unlike `rate()` or `increase()`, which are designed for monotonically increasing counters, `delta()` is ideal for metrics representing resource levels, capacities, or instantaneous measurements that fluctuate over time.

Reference:

Verified from Prometheus documentation - PromQL Range Functions - `delta()`, Gauge Semantics and Usage, and Comparing `delta()` and `rate()` sections.

NEW QUESTION # 61

Which field in alerting rules files indicates the time an alert needs to go from pending to firing state?

- **A. for**
- B. timeout
- C. interval
- D. duration

Answer: A

Explanation:

In Prometheus alerting rules, the `for` field specifies how long a condition must remain true continuously before the alert transitions from the pending to the firing state. This feature prevents transient spikes or brief metric fluctuations from triggering false alerts.

Example:

```
alert: HighRequestLatency
expr: http_request_duration_seconds_avg > 1
for: 5m
labels:
severity: warning
annotations:
description: "Request latency is above 1s for more than 5 minutes."
```

In this configuration, Prometheus evaluates the expression every rule evaluation cycle. The alert only fires if the condition (`http_request_duration_seconds_avg > 1`) remains true for 5 consecutive minutes. If it returns to normal before that duration, the alert resets and never fires.

This mechanism adds stability and noise reduction to alerting systems by ensuring only sustained issues generate notifications.

Reference:

Verified from Prometheus documentation - Alerting Rules Configuration Syntax, Pending vs. Firing States, and Best Practices for Alert Timing and Thresholds sections.

NEW QUESTION # 62

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 # 63

Which exporter would be best suited for basic HTTP probing?

- A. SNMP exporter
- **B. Blackbox exporter**
- C. Apache exporter
- D. JMX exporter

Answer: B

Explanation:

The Blackbox Exporter is the Prometheus component designed specifically for probing endpoints over various network protocols, including HTTP, HTTPS, TCP, ICMP, and DNS. It acts as a generic probe service, allowing Prometheus to test endpoints' availability, latency, and correctness without requiring instrumentation in the target application itself.

For basic HTTP probing, the Blackbox Exporter performs HTTP GET or POST requests to defined URLs and exposes metrics like probe success, latency, response code, and SSL certificate validity. This makes it ideal for uptime and availability monitoring. By contrast, the JMX exporter is used for collecting metrics from Java applications, the Apache exporter for Apache HTTP Server metrics, and the SNMP exporter for network devices. Thus, only the Blackbox Exporter serves the purpose of HTTP probing.

Reference:

Verified from Prometheus documentation - Blackbox Exporter Overview and Exporter Usage Guidelines.

NEW QUESTION # 64

Given the metric `prometheus_tsdb_lowest_timestamp_seconds`, how do you know in which month the lowest timestamp of your Prometheus TSDB belongs?

- A. `month(prometheus_tsdb_lowest_timestamp_seconds)`
- B. `format_date(prometheus_tsdb_lowest_timestamp_seconds, "%M")`
- C. `prometheus_tsdb_lowest_timestamp_seconds % month`
- **D. `(time() - prometheus_tsdb_lowest_timestamp_seconds) / 86400`**

Answer: D

Explanation:

The metric `prometheus_tsdb_lowest_timestamp_seconds` provides the oldest stored sample timestamp in Prometheus's local TSDB (in Unix epoch seconds). To determine the age or approximate date of this timestamp, you compare it with the current time (using `time()` in PromQL).

The expression:

`(time() - prometheus_tsdb_lowest_timestamp_seconds) / 86400`

converts the difference between the current time and the oldest timestamp from seconds into days (1 day = 86,400 seconds). This gives the number of days since the earliest sample was stored, allowing you to infer the time range and approximate month manually. The other options are invalid because PromQL does not support direct date formatting (`format_date`) or month() extraction functions.

Reference:

Extracted and verified from Prometheus documentation - TSDB Internal Metrics, Time Functions in PromQL, and Using `time()` for Relative Calculations.

NEW QUESTION # 65

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