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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q24-Q29):

NEW QUESTION # 24
What are Inhibition rules?

- A. Inhibition rules repeat a set of alerts when another matching alert is firing.
- B. Inhibition rules inspect alerts when a matching set of alerts is firing.
- C. Inhibition rules inject a new set of alerts when a matching alert is firing.
- D. Inhibition rules mute a set of alerts when another matching alert is firing.

Answer: D

Explanation:
Inhibition rules in Prometheus's Alertmanager are used to suppress (mute) alerts that would otherwise be redundant when a higher-priority or related alert is already active. This feature helps avoid alert noise and ensures that operators focus on the root cause rather than multiple cascading symptoms.
For example, if a "DatacenterDown" alert is firing, inhibition rules can mute all "InstanceDown" alerts that share the same datacenter label, preventing redundant notifications. Inhibition is configured in the Alertmanager configuration file under the inhibit_rules section.

Each rule defines:
A source match (the alert that triggers inhibition),
A target match (the alert to mute), and
A match condition (labels that must be equal for inhibition to apply).
Only when the source alert is active are the target alerts silenced.
Reference:
Verified from Prometheus documentation - Alertmanager Configuration - Inhibition Rules, Alert Deduplication and Grouping, and Alert Routing Best Practices.

NEW QUESTION # 25

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

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

Answer: C

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 # 26

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

Answer: A

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 # 27

With the following metrics over the last 5 minutes:

up{instance="localhost"} 1 1 1 1 1
up{instance="server1"} 1 0 0 0 0

What does the following query return:

min_over_time(up[5m])

- A. {instance="server1"} 0
- B. {instance="localhost"} 1 {instance="server1"} 0

Answer: B

Explanation:

The min_over_time() function in PromQL returns the minimum sample value observed within the specified time range for each time series.

In the given data:

For up{instance="localhost"}, all samples are 1. The minimum value over 5 minutes is therefore 1.

For up{instance="server1"}, the sequence is 1 0 0 0 0. The minimum observed value is 0.

Thus, the query min_over_time(up[5m]) returns two series - one per instance:

{instance="localhost"} 1
{instance="server1"} 0

This query is commonly used to check uptime consistency. If the minimum value over the time window is 0, it indicates at least one scrape failure (target down).

Reference:

Verified from Prometheus documentation - PromQL Range Vector Functions, min_over_time() definition, and up Metric Semantics sections.

NEW QUESTION # 28

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

- A. prometheus_tsdb_lowest_timestamp_seconds % month
- B. month(prometheus_tsdb_lowest_timestamp_seconds)
- C. format_date(prometheus_tsdb_lowest_timestamp_seconds,"%M")
- 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 # 29

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