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## Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q49-Q54):

### NEW QUESTION # 49

What does the rate() function in PromQL return?

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

**Answer: A**

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 # 50

What popular open-source project is commonly used to visualize Prometheus data?

- A. Grafana
- B. Kibana
- C. Thanos
- D. Loki

### Answer: A

Explanation:

The most widely used open-source visualization and dashboarding platform for Prometheus data is Grafana. Grafana provides native integration with Prometheus as a data source, allowing users to create real-time, interactive dashboards using PromQL queries. Grafana supports advanced visualization panels (graphs, heatmaps, gauges, tables, etc.) and enables users to design custom dashboards to monitor infrastructure, application performance, and service-level objectives (SLOs). It also provides alerting capabilities that can complement or extend Prometheus's own alerting system.

While Kibana is part of the Elastic Stack and focuses on log analytics, Thanos extends Prometheus for long-term storage and high availability, and Loki is a log aggregation system. None of these tools serve as the primary dashboarding solution for Prometheus metrics the way Grafana does.

Grafana's seamless Prometheus integration and templating support make it the de facto standard visualization tool in the Prometheus ecosystem.

Reference:

Verified from Prometheus documentation - Visualizing Data with Grafana, and Grafana documentation - Prometheus Data Source Integration and Dashboard Creation Guide.

## NEW QUESTION # 51

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

- A. No answer.
- B. 0
- C. NaN
- 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 # 52

What is a rule group?

- A. It is a set of rules that are grouped by labels.
- B. It is a set of rules that are executed sequentially.
- C. It is a set of rules, split into groups by type.
- D. It is the set (the group) of all the rules in a file.

### Answer: B

Explanation:

In Prometheus, a rule group is a logical collection of recording and alerting rules that are evaluated sequentially at a specified interval. Rule groups are defined in YAML files under the `groups:` key, with each group containing a name, an interval, and a list of rules.

For example:

groups:

- name: example

interval: 1m

rules:

- record: job:http\_inprogress\_requests:sum

expr: sum(http\_inprogress\_requests) by (job)

All rules in a group share the same evaluation schedule and are executed one after another. This ensures deterministic order, especially when one rule depends on another's result.

Reference:

Verified from Prometheus documentation - Rule Configuration, Rule Groups and Evaluation Order, and Recording & Alerting Rules Guide.

## NEW QUESTION # 53

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

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

**Answer: B**

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 # 54

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