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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q14-Q19):

NEW QUESTION # 14

How many metric types does Prometheus text format support?

- A. 0
- B. 1
- C. 2
- **D. 3**

Answer: D

Explanation:

Prometheus defines four core metric types in its official exposition format, which are: Counter, Gauge, Histogram, and Summary. These types represent the fundamental building blocks for expressing quantitative measurements of system performance, behavior, and state.

A Counter is a cumulative metric that only increases (e.g., number of requests served).

A Gauge represents a value that can go up and down, such as memory usage or temperature.

A Histogram samples observations (e.g., request durations) and counts them in configurable buckets, providing both counts and sum of observed values.

A Summary is similar to a histogram but provides quantile estimation over a sliding time window along with count and sum metrics. These four types are the only officially supported metric types in the Prometheus text exposition format as defined by the Prometheus data model. Any additional metrics or custom naming conventions are built on top of these core types but do not constitute new types.

Reference:

Extracted and verified from Prometheus official documentation sections on Metric Types and Exposition Formats in the Prometheus study materials.

NEW QUESTION # 15

Which Alertmanager feature allows you to temporarily stop notifications for a specific alert?

- A. Grouping
- B. Deduplication
- C. Silence
- D. Inhibition

Answer: C

Explanation:

The Silence feature in Alertmanager allows operators to mute specific alerts for a defined period. Each silence includes a matcher (labels), a creator, a comment, and an expiration time.

Silencing is useful during maintenance windows or known outages to prevent alert noise. Unlike inhibition, silences are manual and explicit.

NEW QUESTION # 16

What's "wrong" with the `myapp_filG_uploads_total{userid=„5123“,status="failed"}` metric?

- A. The status should not be exposed as a label.
- B. The metric name should consist of dashes instead of underscores.
- C. The `userid` should not be exposed as a label.
- D. The `_total` suffix should be omitted.

Answer: C

Explanation:

In Prometheus best practices, high-cardinality labels-especially those containing unique or user-specific identifiers-should be avoided. The metric `myapp_filG_uploads_total{userid="5123",status="failed"}` exposes the `userid` as a label, which is problematic. Each distinct value of a label generates a new time series in Prometheus. If there are thousands or millions of unique users, this would exponentially increase the number of time series, leading to cardinality explosion, degraded performance, and high memory usage. The `_total` suffix is actually correct and required for counters, as per the Prometheus naming convention. The use of underscores in metric names is also correct, as Prometheus does not support dashes in metric identifiers. The status label, however, is perfectly valid because it typically has a low number of possible values (e.g., "success", "failed").

Reference:

Verified from Prometheus official documentation sections Instrumentation - Metric and Label Naming Best Practices and Writing Exporters.

NEW QUESTION # 17

Which of the following signal belongs to symptom-based alerting?

- A. Disk space
- B. API latency
- C. CPU usage
- D. Database memory utilization

Answer: B

Explanation:

Symptom-based alerting focuses on user-visible problems or service-impacting symptoms rather than low-level resource metrics. In Prometheus and Site Reliability Engineering (SRE) practices, alerts should signal conditions that affect users' experience - such as high latency, request failures, or service unavailability - instead of merely reflecting internal resource states.

Among the options, API latency directly represents the performance perceived by end users. If API response times increase, it immediately impacts user satisfaction and indicates a possible service degradation.

In contrast, metrics like disk space, CPU usage, or database memory utilization are cause-based metrics - they may correlate with problems but do not always translate into observable user impact.

Prometheus alerting best practices recommend alerting on symptoms (via RED metrics - Rate, Errors, Duration) while using cause-based metrics for deeper investigation and diagnosis, not for immediate paging alerts.

Reference:

Verified from Prometheus documentation - Alerting Best Practices, Symptom vs. Cause Alerting, and RED/USE Monitoring Principles sections.

NEW QUESTION # 18

How can you select all the up metrics whose instance label matches the regex fe-.*?

- A. `up{instance=~"fe-.*"}`
- B. `up{instance="fe-.*"}`
- C. `up{instance~"fe-.*"}`
- D. `up{instance=regexp(fe-.*)}`

Answer: A

Explanation:

PromQL supports regular expression matching for label values using the `==~` operator. To select all time series whose label values match a given regex pattern, you use the syntax `{label_name==~"regex"}`.

In this case, to select all up metrics where the instance label begins with fe-, the correct query is:

```
up{instance==~"fe-.*"}
```

Explanation of operators:

`=` → exact match.

`!=` → not equal.

`==~` → regex match.

`!~` → regex not match.

Option D uses the correct `==~` syntax. Options A and B use invalid PromQL syntax, and option C is almost correct but includes a misplaced extra quote style (`~`), which would cause a parsing error.

Reference:

Verified from Prometheus documentation - Expression Language Data Selectors, Label Matchers, and Regular Expression Matching Rules.

NEW QUESTION # 19

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