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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21

What is metamonitoring?

- A. Metamonitoring is the monitoring of non-IT systems.
- B. Metamonitoring is a monitoring that covers 100% of a service.
- C. Metamonitoring is the monitoring of the monitoring infrastructure.
- D. Metamonitoring is monitoring social networks for end user complaints about quality of service.

Answer: C

Explanation:

Metamonitoring refers to monitoring the monitoring system itself-ensuring that Prometheus, Alertmanager, exporters, and dashboards are functioning properly. In other words, it's the observability of your observability stack.

This practice helps detect issues such as:

Prometheus not scraping targets,
Alertmanager being unreachable,
Exporters not exposing data, or
Storage being full or corrupted.

Without metamonitoring, an outage in the monitoring system could go unnoticed, leaving operators blind to actual infrastructure problems. A common approach is to use a secondary Prometheus instance (or external monitoring service) to monitor the health metrics of the primary Prometheus and related components.

Reference:

Verified from Prometheus documentation - Monitoring Prometheus Itself, Operational Best Practices, and Reliability of the Monitoring Infrastructure.

NEW QUESTION # 22

How many metric types does Prometheus text format support?

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

Answer: B

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 # 23

Which of the following is an invalid @ modifier expression?

- **A. `sum(http_requests_total{method="GET"}) @ 1609746000`**
- B. `sum(http_requests_total{method="GET"}) @ 1609746000`
- C. `go_goroutines @ start()`
- D. `go_goroutines @ end()`

Answer: A

Explanation:

The @ modifier in PromQL allows querying data as it existed at a specific point in time rather than the evaluation time. It can be applied after a selector or an entire expression, but the syntax rules are strict.

- `go_goroutines @ start()` → Valid; queries value at the start of the evaluation range.
- `sum(http_requests_total{method="GET"}) @ 1609746000` → Valid; applies the modifier after the full expression.
- `go_goroutines @ end()` → Valid; queries value at the end of the evaluation range.

□ `sum(http_requests_total{method="GET"} @ 1609746000)` → Invalid, because the `@` modifier cannot appear inside the selector braces; it must appear after the selector or aggregation expression.

This invalid placement violates PromQL's syntax grammar for subquery and modifier ordering.

Reference:

Verified from Prometheus documentation - PromQL `@` Modifier Syntax, Evaluation Modifiers, and PromQL Expression Grammar sections.

NEW QUESTION # 24

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

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

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 # 25

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

- **A. API latency**
- B. Disk space
- C. Database availability
- D. CPU usage

Answer: A

Explanation:

Symptom-based alerting focuses on detecting user-visible or service-impacting issues rather than internal resource states. Metrics like API latency, error rates, and availability directly indicate degraded user experience and are therefore the preferred triggers for alerts.

In contrast, resource-based alerts (like CPU usage or disk space) often represent underlying causes, not symptoms. Alerting on them can produce noise and distract from actual service health problems.

For example, high API latency (`http_request_duration_seconds`) clearly reflects that users are experiencing delays, which is actionable and business-relevant.

This concept aligns with the RED (Rate, Errors, Duration) and USE (Utilization, Saturation, Errors) monitoring models promoted in Prometheus and SRE best practices.

Reference:

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

NEW QUESTION # 26

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