

Quiz 2025 Linux Foundation Unparalleled PCA: New Prometheus Certified Associate Exam Exam Labs



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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q10-Q15):

NEW QUESTION # 10

Which of the following metrics is unsuitable for a Prometheus setup?

- A. `prometheus_engine_query_log_enabled`
- B. `user_last_login_timestamp_seconds{email="john.doe@example.com"}`
- C. `http_response_total{handler="static/*filepath"}`
- D. `promhttp_metric_handler_requests_total{code="500"}`

Answer: B

Explanation:

The metric `user_last_login_timestamp_seconds{email="john.doe@example.com"}` is unsuitable for Prometheus because it includes a high-cardinality label (email). Each unique email address would generate a separate time series, potentially numbering in the millions, which severely impacts Prometheus performance and memory usage.

Prometheus is optimized for low- to medium-cardinality metrics that represent system-wide behavior rather than per-user data.

High-cardinality metrics cause data explosion, complicating queries and overwhelming the storage engine.

By contrast, the other metrics-`prometheus_engine_query_log_enabled`, `promhttp_metric_handler_requests_total{code="500"}`, and `http_response_total{handler="static/*filepath"}`-adhere to Prometheus best practices. They represent operational or service-level metrics with limited, manageable label value sets.

Reference:

Extracted and verified from Prometheus documentation - Metric and Label Naming Best Practices, Cardinality Management, and Anti-Patterns for Metric Design sections.

NEW QUESTION # 11

Which of the following is an invalid `@` modifier expression?

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

Answer: D

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 # 12

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

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

Answer: D

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 # 13

How would you add text from the instance label to the alert's description for the following alert?

alert: InstanceDown

expr: up == 0

for: 5m

labels:

severity: page

annotations:

description: "Instance INSTANCE_NAME_HERE down"

- A. Use \$labels.instance instead of INSTANCE_NAME_HERE
- B. Use \$value.instance instead of INSTANCE_NAME_HERE
- C. Use \$metric.instance instead of INSTANCE_NAME_HERE
- D. Use \$expr.instance instead of INSTANCE_NAME_HERE

Answer: A

Explanation:

In Prometheus alerting rules, you can dynamically reference label values in annotations and labels using template variables. Each alert has access to its labels via the variable \$labels, which allows direct insertion of label data into alert messages or descriptions.

To include the value of the instance label dynamically in the description, replace the placeholder INSTANCE_NAME_HERE with: description: "Instance {{ \$labels.instance }} down"

or equivalently:

description: "Instance \$labels.instance down"

Both forms are valid - the first follows Go templating syntax and is the recommended format.

This ensures that when the alert fires, the instance label (e.g., a hostname or IP) is automatically included in the message, producing outputs like:

Instance 192.168.1.15:9100 down

Options B, C, and D are invalid because \$value, \$expr, and \$metric are not recognized context variables in alert templates.

Reference:

Verified from Prometheus documentation - Alerting Rules Configuration, Using Template Variables in Annotations and Labels, and Prometheus Templating Guide (Go Templates and \$labels usage) sections.

NEW QUESTION # 14

Which function would you use to calculate the 95th percentile latency from histogram data?

- A. percentile(http_request_duration_seconds, 0.95)
- B. histogram_quantile(0.95, sum(rate(http_request_duration_seconds_bucket[5m])) by (le))
- C. quantile_over_time(0.95, http_request_duration_seconds[5m])
- D. topk(0.95, http_request_duration_seconds)

Answer: B

Explanation:

To calculate a percentile (e.g., 95th percentile) from histogram data in Prometheus, the correct function is histogram_quantile(). It estimates quantiles based on cumulative bucket counts.

Example:

histogram_quantile(0.95, sum(rate(http_request_duration_seconds_bucket[5m])) by (le)) This computes the 95th percentile request duration across all observed instances over the last 5 minutes.

NEW QUESTION # 15

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