

2025 Linux Foundation First-grade PCA: Prometheus Certified Associate Exam Real Braindumps



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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q23-Q28):

NEW QUESTION # 23

How can you use Prometheus Node Exporter?

- A. You can use it to collect resource metrics from the application HTTP server.
- **B. You can use it to collect metrics for hardware and OS metrics.**
- C. You can use it to probe endpoints over HTTP, HTTPS.
- D. You can use it to instrument applications with metrics.

Answer: B

Explanation:

The Prometheus Node Exporter is a core system-level exporter that exposes hardware and operating system metrics from *nix-based hosts. It collects metrics such as CPU usage, memory, disk I/O, filesystem space, network statistics, and load averages. It runs as a lightweight daemon on each host and exposes metrics via an HTTP endpoint (default: :9100/metrics), which Prometheus scrapes periodically.

Key clarification:

It does not instrument applications (A).

It does not collect metrics directly from application HTTP endpoints (B).

It is unrelated to HTTP probing tasks - those are handled by the Blackbox Exporter (D).

Thus, the correct use of the Node Exporter is to collect and expose hardware and OS-level metrics for Prometheus monitoring.

Reference:

Extracted and verified from Prometheus documentation - Node Exporter Overview, Host-Level Monitoring, and Exporter Usage Best Practices sections.

NEW QUESTION # 24

What are the four golden signals of monitoring as defined by Google's SRE principles?

- A. Availability, Logging, Errors, Throughput
- **B. Traffic, Errors, Latency, Saturation**
- C. Utilization, Load, Disk, Network
- D. Requests, CPU, Memory, Latency

Answer: B

Explanation:

The Four Golden Signals-Traffic, Errors, Latency, and Saturation-are key service-level indicators defined by Google's Site Reliability Engineering (SRE) discipline.

Traffic: Demand placed on the system (e.g., requests per second).

Errors: Rate of failed requests.

Latency: Time taken to serve requests.

Saturation: How "full" the system resources are (CPU, memory, etc.).

Prometheus and its metrics-based model are ideal for capturing these signals.

NEW QUESTION # 25

Where does Prometheus store its time series data by default?

- A. In-memory only.
- B. In etcd.
- C. In an external database such as InfluxDB.
- **D. In an embedded TSDB on local disk.**

Answer: D

Explanation:

By default, Prometheus stores its time series data in a local, embedded Time Series Database (TSDB) on disk. The data is organized in block files under the data/ directory inside Prometheus's storage path.

Each block typically covers two hours of data, containing chunks, index, and metadata files. Older blocks are compacted and deleted based on retention settings.

NEW QUESTION # 26

What does the evaluation_interval parameter in the Prometheus configuration control?

- A. How often Prometheus scrapes targets.
- **B. How often Prometheus evaluates recording and alerting rules.**
- C. How often Prometheus compacts the TSDB data blocks.
- D. How often Prometheus sends metrics to remote storage.

Answer: B

Explanation:

The evaluation_interval parameter defines how frequently Prometheus evaluates its recording and alerting rules. It determines the schedule at which the rule engine runs, checking whether alert conditions are met and generating new time series for recording rules.

For example, setting:

global:

evaluation_interval: 30s

means Prometheus evaluates all configured rules every 30 seconds. This setting differs from `scrape_interval`, which controls how often Prometheus collects data from targets. Having a proper evaluation interval ensures alerting latency is balanced with system performance.

NEW QUESTION # 27

What function calculates the tp-quantile from a histogram?

- A. `avg_over_time()`
- B. `histogram()`
- C. `histogram_quantile()`
- D. `predict_linear()`

Answer: C

Explanation:

In Prometheus, the `histogram_quantile()` function is specifically designed to compute quantiles (such as tp90, tp95, or tp99) from histogram bucket data. A histogram metric records cumulative bucket counts for observed values under specific thresholds (le label). The function works by interpolating between buckets based on the target quantile. For example, to compute the 90th percentile latency from a histogram named `http_request_duration_seconds_bucket`, you would use: `histogram_quantile(0.9, sum(rate(http_request_duration_seconds_bucket[5m])) by (le))` Here, 0.9 represents the tp90 quantile, and `rate()` converts counter increments into per-second rates.

Other options are incorrect:

`histogram()` is not a valid PromQL function.

`predict_linear()` forecasts future values of a time series.

`avg_over_time()` computes a simple average over a time window, not quantiles.

Reference:

Verified from Prometheus documentation - PromQL Function: `histogram_quantile()`, Working with Histograms, and Quantile Calculation Details.

NEW QUESTION # 28

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