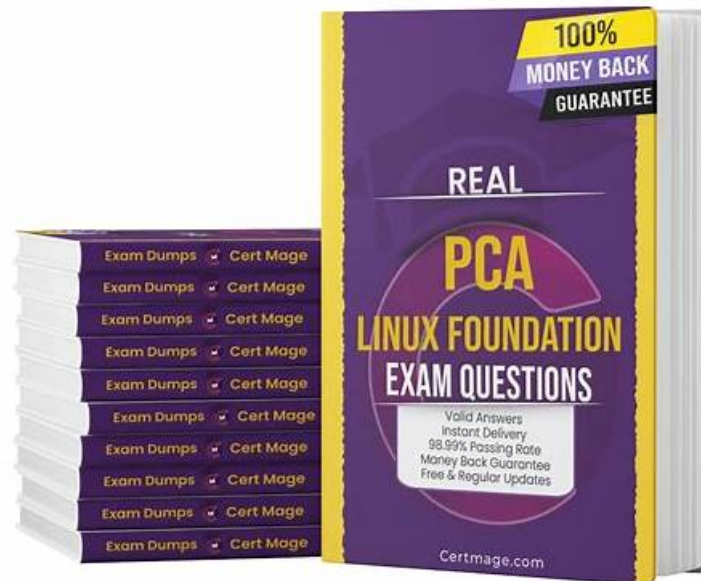


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## Valid Pdf PCA Dumps offer you accurate New Learning Materials | Linux Foundation Prometheus Certified Associate Exam

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### Linux Foundation PCA Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>• <b>Instrumentation and Exporters:</b> This domain evaluates the abilities of Software Engineers and addresses the methods for integrating Prometheus into applications. It includes the use of client libraries, the process of instrumenting code, and the proper structuring and naming of metrics. The section also introduces exporters that allow Prometheus to collect metrics from various systems, ensuring efficient and standardized monitoring implementation.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• <b>PromQL:</b> This section of the exam measures the skills of Monitoring Specialists and focuses on Prometheus Query Language (PromQL) concepts. It covers data selection, calculating rates and derivatives, and performing aggregations across time and dimensions. Candidates also study the use of binary operators, histograms, and timestamp metrics to analyze monitoring data effectively, ensuring accurate interpretation of system performance and trends.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Observability Concepts:</b> This section of the exam measures the skills of Site Reliability Engineers and covers the essential principles of observability used in modern systems. It focuses on understanding metrics, logs, and tracing mechanisms such as spans, as well as the difference between push and pull data collection methods. Candidates also learn about service discovery processes and the fundamentals of defining and maintaining SLOs, SLAs, and SLIs to monitor performance and reliability.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Alerting and Dashboarding:</b> This section of the exam assesses the competencies of Cloud Operations Engineers and focuses on monitoring visualization and alert management. It covers dashboarding basics, alerting rules configuration, and the use of Alertmanager to handle notifications. Candidates also learn the core principles of when, what, and why to trigger alerts, ensuring they can create reliable monitoring dashboards and proactive alerting systems to maintain system stability.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Prometheus Fundamentals:</b> This domain evaluates the knowledge of DevOps Engineers and emphasizes the core architecture and components of Prometheus. It includes topics such as configuration and scraping techniques, limitations of the Prometheus system, data models and labels, and the exposition format used for data collection. The section ensures a solid grasp of how Prometheus functions as a monitoring and alerting toolkit within distributed environments.</li> </ul>

## Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q46-Q51):

### NEW QUESTION # 46

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

- A. NaN
- B. It errors out.
- C. No answer.
- **D. 0**

**Answer: D**

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 # 47

When can you use the Grafana Heatmap panel?

- A. You can use it to graph a counter metric.
- B. You can use it to graph an info metric.
- **C. You can use it to graph a histogram metric.**
- D. You can use it to graph a gauge metric.

**Answer: C**

Explanation:

The Grafana Heatmap panel is best suited for visualizing histogram metrics collected from Prometheus. Histograms provide bucketed data distributions (e.g., request durations, response sizes), and the heatmap effectively displays these as a two-dimensional density chart over time.

In Prometheus, histogram metrics are exposed as multiple time series with the `_bucket` suffix and the label `le` (less than or equal). Grafana interprets these buckets to create visual bands showing how frequently different value ranges occurred.

Counters, gauges, and info metrics do not have bucketed distributions, so a heatmap would not produce meaningful output for them.

Reference:  
Verified from Grafana documentation - Heatmap Panel Overview, Visualizing Prometheus Histograms, and Prometheus documentation - Understanding Histogram Buckets.

### NEW QUESTION # 48

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 # 49

What is the name of the official \*nix OS kernel metrics exporter?

- **A. node\_exporter**
- B. Prometheus\_exporter
- C. os\_exporter
- D. metrics\_exporter

**Answer: A**

Explanation:

The official Prometheus exporter for collecting system-level and kernel-related metrics from Linux and other UNIX-like operating systems is the Node Exporter.

The Node Exporter exposes hardware and OS metrics including CPU load, memory usage, disk I/O, network traffic, and kernel statistics. It is designed to provide host-level observability and serves data at the default endpoint `:9100/metrics` in the standard

Prometheus exposition text format.

This exporter is part of the official Prometheus ecosystem and is widely deployed for infrastructure monitoring. None of the other listed options (Prometheus\_exporter, metrics\_exporter, or os\_exporter) are official components of the Prometheus project.

Reference:

Verified from Prometheus documentation - Node Exporter Overview, System Metrics Collection, and Official Exporters List.

### NEW QUESTION # 50

Which PromQL statement returns the sum of all values of the metric node\_memory\_MemAvailable\_bytes from 10 minutes ago?

- A. `sum(node_memory_MemAvailable_bytes offset 10m)`
- B. `sum(node_memory_MemAvailable_bytes) setoff 10m`
- C. `sum(node_memory_MemAvailable_bytes) offset 10m`
- D. `offset sum(node_memory_MemAvailable_bytes[10m])`

**Answer: A**

Explanation:

In PromQL, the offset modifier allows you to query metrics as they were at a past time relative to the current evaluation. To retrieve the value of node\_memory\_MemAvailable\_bytes as it was 10 minutes ago, you place the offset keyword inside the aggregation function's argument, not after it.

The correct query is:

```
sum(node_memory_MemAvailable_bytes offset 10m)
```

This computes the total available memory across all instances, based on data from exactly 10 minutes in the past.

Placing offset after the aggregation (as in option B) is syntactically invalid because modifiers apply to instant and range vector selectors, not to complete expressions.

Reference:

Verified from Prometheus documentation - PromQL Evaluation Modifiers: offset, Aggregation Operators, and Temporal Query Examples.

### NEW QUESTION # 51

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