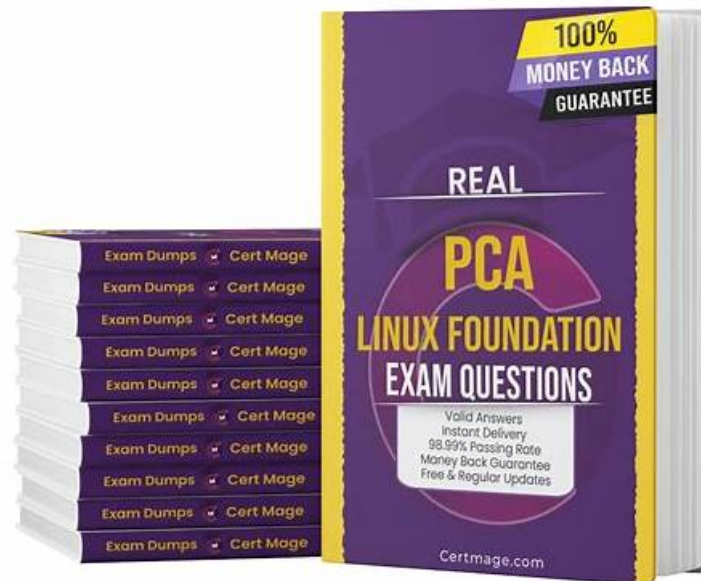


# PCA Test Engine, PCA New Dumps Ppt



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## Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• PromQL: 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 2	<ul style="list-style-type: none"> <li>• Observability Concepts: 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 3	<ul style="list-style-type: none"> <li>• Prometheus Fundamentals: 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>

Topic 4	<ul style="list-style-type: none"> <li>Instrumentation and Exporters: 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 5	<ul style="list-style-type: none"> <li>Alerting and Dashboarding: 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>

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## Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q25-Q30):

### NEW QUESTION # 25

With the following metrics over the last 5 minutes:

```
up{instance="localhost"} 1 1 1 1 1
```

```
up{instance="server1"} 1 0 0 0 0
```

What does the following query return:

```
min_over_time(up[5m])
```

- A. {instance="localhost"} 1 {instance="server1"} 0
- B. {instance="server1"} 0

**Answer: A**

Explanation:

The `min_over_time()` function in PromQL returns the minimum sample value observed within the specified time range for each time series.

In the given data:

For `up{instance="localhost"}`, all samples are 1. The minimum value over 5 minutes is therefore 1.

For `up{instance="server1"}`, the sequence is 1 0 0 0 0. The minimum observed value is 0.

Thus, the query `min_over_time(up[5m])` returns two series - one per instance:

```
{instance="localhost"} 1
```

```
{instance="server1"} 0
```

This query is commonly used to check uptime consistency. If the minimum value over the time window is 0, it indicates at least one scrape failure (target down).

Reference:

Verified from Prometheus documentation - PromQL Range Vector Functions, `min_over_time()` definition, and `up` Metric Semantics sections.

### NEW QUESTION # 26

Which field in alerting rules files indicates the time an alert needs to go from pending to firing state?

- A. `for`
- B. `duration`

- C. interval
- D. timeout

**Answer: A**

Explanation:

In Prometheus alerting rules, the `for` field specifies how long a condition must remain true continuously before the alert transitions from the pending to the firing state. This feature prevents transient spikes or brief metric fluctuations from triggering false alerts.

Example:

```
alert: HighRequestLatency
```

```
expr: http_request_duration_seconds_avg > 1
```

```
for: 5m
```

```
labels:
```

```
severity: warning
```

```
annotations:
```

```
description: "Request latency is above 1s for more than 5 minutes."
```

In this configuration, Prometheus evaluates the expression every rule evaluation cycle. The alert only fires if the condition (`http_request_duration_seconds_avg > 1`) remains true for 5 consecutive minutes. If it returns to normal before that duration, the alert resets and never fires.

This mechanism adds stability and noise reduction to alerting systems by ensuring only sustained issues generate notifications.

Reference:

Verified from Prometheus documentation - Alerting Rules Configuration Syntax, Pending vs. Firing States, and Best Practices for Alert Timing and Thresholds sections.

### NEW QUESTION # 27

What is an example of a single-target exporter?

- A. Blackbox Exporter
- B. SNMP Exporter
- C. Redis Exporter
- D. Node Exporter

**Answer: C**

Explanation:

A single-target exporter in Prometheus is designed to expose metrics for a specific service instance rather than multiple dynamic endpoints. The Redis Exporter is a prime example - it connects to one Redis server instance and exports its metrics (like memory usage, key space hits, or command statistics) to Prometheus.

By contrast, exporters like the SNMP Exporter and Blackbox Exporter can probe multiple targets dynamically, making them multi-target exporters. The Node Exporter, while often deployed per host, is considered a host-level exporter, not a true single-target one in configuration behavior.

The Redis Exporter is instrumented specifically for a single Redis endpoint per configuration, aligning it with Prometheus's single-target exporter definition. This design simplifies monitoring and avoids dynamic reconfiguration.

Reference:

Verified from Prometheus documentation and official exporter guidelines - Writing Exporters, Exporter Types, and Redis Exporter Overview sections.

### NEW QUESTION # 28

How many metric types does Prometheus text format support?

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

**Answer: C**

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 # 29

```
http_requests_total{verb="POST"} 30
```

```
http_requests_total{verb="GET"} 30
```

What is the issue with the metric family?

- A. Metric names are missing a prefix to indicate which application is exposing the query.
- **B. Unit is missing in the http\_requests\_total metric name.**
- C. The value represents two different things across the dimensions: code and verb.
- D. verb label content should be normalized to lowercase.

**Answer: B**

Explanation:

Prometheus metric naming best practices require that every metric name include a unit suffix that indicates the measurement type, where applicable. The unit should follow the base name, separated by an underscore, and must use base SI units (for example, \_seconds, \_bytes, \_total, etc.).

In the case of `http_requests_total`, while the metric correctly includes the `_total` suffix-indicating it is a counter-it lacks a base unit of measurement (such as time, bytes, or duration). However, for event counters, `_total` is itself considered the unit, representing "total occurrences" of an event. Thus, the naming would be acceptable in strict Prometheus terms, but if this metric were measuring something like duration, size, or latency, then including a specific unit would be mandatory.

However, since the question implies that the missing unit is the issue and not the label schema, the expected answer aligns with ensuring metric names convey measurable units when applicable.

Reference:

Prometheus documentation - Metric and Label Naming Conventions, Instrumentation Best Practices, and Metric Type Naming (Counters, Gauges, and Units) sections.

### NEW QUESTION # 30

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