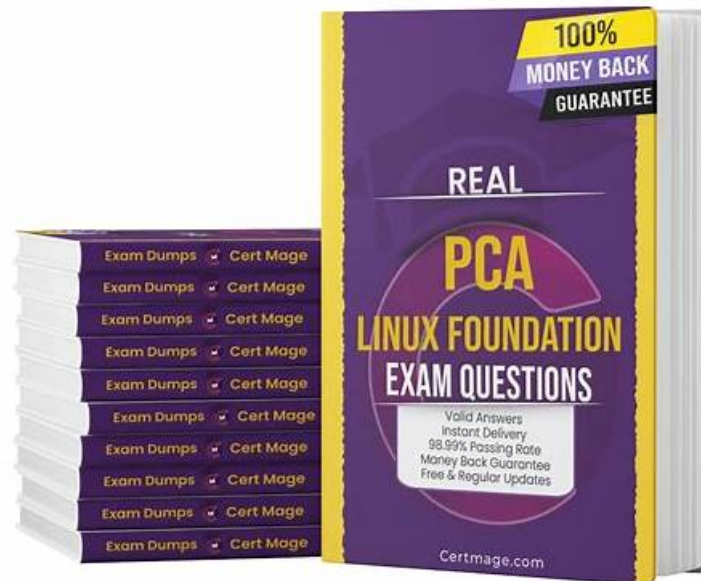


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Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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.
Topic 2	<ul style="list-style-type: none">• 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.
Topic 3	<ul style="list-style-type: none">• 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.

Topic 4	<ul style="list-style-type: none"> 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.
Topic 5	<ul style="list-style-type: none"> 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.

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q28-Q33):

NEW QUESTION # 28

What is `api_http_requests_total` in the following metric?

```
api_http_requests_total{method="POST", handler="/messages"}
```

- A. `"api_http_requests_total"` is a metric name.
- B. `"api_http_requests_total"` is a metric label name.
- C. `"api_http_requests_total"` is a metric field.
- D. `"api_http_requests_total"` is a metric type.

Answer: A

Explanation:

In Prometheus, the part before the curly braces `{}` represents the metric name. Therefore, in the metric `api_http_requests_total{method="POST", handler="/messages"}`, the term `api_http_requests_total` is the metric name. Metric names describe the specific quantity being measured - in this example, the total number of HTTP requests received by an API.

The portion within the braces defines labels, which provide additional dimensions to the metric. Here, `method="POST"` and `handler="/messages"` are labels describing request attributes. The metric name should follow Prometheus conventions: lowercase letters, numbers, and underscores only, and ending in `_total` for counters.

This naming scheme ensures clarity and standardization across instrumented applications. The metric type (e.g., counter, gauge) is declared separately in the exposition format, not within the metric name itself.

Reference:

Verified from Prometheus documentation - Metric and Label Naming, Data Model, and Instrumentation Best Practices sections.

NEW QUESTION # 29

How can you send metrics from your Prometheus setup to a remote system, e.g., for long-term storage?

- A. With S3 Buckets
- B. With `"remote write"`
- C. With `"federation"`
- D. With `"scraping"`

Answer: B

Explanation:

Prometheus provides a feature called Remote Write to transmit scraped and processed metrics to an external system for long-term storage, aggregation, or advanced analytics. When configured, Prometheus continuously pushes time series data to the remote endpoint defined in the `remote_write` section of the configuration file.

This mechanism is often used to integrate with long-term data storage backends such as Cortex, Thanos, Mimir, or InfluxDB, enabling durable retention and global query capabilities beyond Prometheus's local time series database limits.

In contrast, "scraping" refers to data collection from targets, while "federation" allows hierarchical Prometheus setups (pulling metrics from other Prometheus instances) but does not serve as long-term storage. Using "S3 Buckets" directly is also unsupported in native Prometheus configurations.

Reference:

Extracted and verified from Prometheus documentation - Remote Write/Read APIs and Long-Term Storage Integrations sections.

NEW QUESTION # 30

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

- A. `Prometheus_exporter`
- B. `os_exporter`
- C. `node_exporter`
- D. `metrics_exporter`

Answer: C

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 # 31

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

Answer: B

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 # 32

What are Inhibition rules?

- A. Inhibition rules mute a set of alerts when another matching alert is firing.
- B. Inhibition rules inject a new set of alerts when a matching alert is firing.
- C. Inhibition rules repeat a set of alerts when another matching alert is firing.
- D. Inhibition rules inspect alerts when a matching set of alerts is firing.

Answer: A

Explanation:

Inhibition rules in Prometheus's Alertmanager are used to suppress (mute) alerts that would otherwise be redundant when a higher-priority or related alert is already active. This feature helps avoid alert noise and ensures that operators focus on the root cause rather than multiple cascading symptoms.

For example, if a "DatacenterDown" alert is firing, inhibition rules can mute all "InstanceDown" alerts that share the same datacenter label, preventing redundant notifications. Inhibition is configured in the Alertmanager configuration file under the `inhibit_rules` section. Each rule defines:

A source match (the alert that triggers inhibition),

A target match (the alert to mute), and

A match condition (labels that must be equal for inhibition to apply).

Only when the source alert is active are the target alerts silenced.

Reference:

Verified from Prometheus documentation - Alertmanager Configuration - Inhibition Rules, Alert Deduplication and Grouping, and Alert Routing Best Practices.

NEW QUESTION # 33

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