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## Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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>
Topic 4	<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 5	<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>

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## Pass4cram Linux Foundation PCA Practice Test

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## Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q47-Q52):

### NEW QUESTION # 47

What is the minimum requirement for an application to expose Prometheus metrics?

- A. It must be able to serve text over HTTP.
- B. It must be compiled for 64-bit architectures.
- C. It must be exposed to the Internet.
- D. It must run on Linux.

**Answer: A**

**Explanation:**

Prometheus collects metrics by scraping an HTTP endpoint exposed by the target application. Therefore, the only essential requirement for an application to expose metrics to Prometheus is that it serves metrics in the Prometheus text exposition format over HTTP.

This endpoint is conventionally available at /metrics and provides metrics in plain text format (e.g., Content-Type: text/plain; version=0.0.4). The application can run on any operating system, architecture, or network - as long as Prometheus can reach its endpoint.

It does not need to be Internet-accessible (it can be internal) and is not limited to Linux or any specific bitness.

**Reference:**

Verified from Prometheus documentation - Exposition Formats, Instrumenting Applications, and Target Scraping Requirements sections.

### NEW QUESTION # 48

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 # 49

Which Alertmanager feature prevents duplicate notifications from being sent?

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

**Answer: B**

Explanation:

Deduplication in Alertmanager ensures that identical alerts from multiple Prometheus servers or rule evaluations do not trigger duplicate notifications.

Alertmanager compares alerts based on their labels and fingerprints; if an alert with identical labels already exists, it merges or refreshes the existing one instead of creating a new notification.

This mechanism is essential in high-availability setups where multiple Prometheus instances monitor the same targets.

## NEW QUESTION # 50

What are Inhibition rules?

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

**Answer: B**

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 # 51

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) offset 10m`
- C. `offset sum(node_memory_MemAvailable_bytes[10m])`
- D. `sum(node_memory_MemAvailable_bytes) setoff 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 # 52

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