

Quiz 2025 Linux Foundation High-quality Exam PCA Online

Linux Foundation PCA Certification Details	
Exam Code	PCA
Full Exam Name	Linux Foundation Prometheus Certified Associate
No. of Questions	60
Online Practice Exam	Linux Foundation Prometheus Certified Associate (PCA) Practice Test
Sample Questions	Linux Foundation PCA Sample Questions
Passing Score	75%
Time Limit	90 minutes
Exam Fees	\$250 USD

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

NEW QUESTION # 28

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

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

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 # 29

What is metamonitoring?

- A. Metamonitoring is monitoring social networks for end user complaints about quality of service.
- B. Metamonitoring is the monitoring of non-IT systems.
- C. Metamonitoring is the monitoring of the monitoring infrastructure.
- D. Metamonitoring is a monitoring that covers 100% of a service.

Answer: C

Explanation:

Metamonitoring refers to monitoring the monitoring system itself-ensuring that Prometheus, Alertmanager, exporters, and dashboards are functioning properly. In other words, it's the observability of your observability stack.

This practice helps detect issues such as:

Prometheus not scraping targets,
Alertmanager being unreachable,
Exporters not exposing data, or
Storage being full or corrupted.

Without metamonitoring, an outage in the monitoring system could go unnoticed, leaving operators blind to actual infrastructure problems. A common approach is to use a secondary Prometheus instance (or external monitoring service) to monitor the health metrics of the primary Prometheus and related components.

Reference:

Verified from Prometheus documentation - Monitoring Prometheus Itself, Operational Best Practices, and Reliability of the Monitoring Infrastructure.

NEW QUESTION # 30

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

- A. duration
- B. for
- C. timeout
- D. interval

Answer: B

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 # 31

What Prometheus component would you use if targets are running behind a Firewall/NAT?

- A. HA Proxy
- B. Pull Proxy
- C. Pull Gateway
- D. PushProx

Answer: D

Explanation:

When Prometheus targets are behind firewalls or NAT and cannot be reached directly by the Prometheus server's pull mechanism, the recommended component to use is PushProx.

PushProx works by reversing the usual pull model. It consists of a PushProx Proxy (accessible by Prometheus) and PushProx Clients (running alongside the targets). The clients establish outbound connections to the proxy, which allows Prometheus to "pull" metrics indirectly. This approach bypasses network restrictions without compromising the Prometheus data model.

Unlike the Pushgateway (which is used for short-lived batch jobs, not network-isolated targets), PushProx maintains the Prometheus "pull" semantics while accommodating environments where direct scraping is impossible.

Reference:

Verified from Prometheus documentation and official PushProx design notes - Monitoring Behind NAT/Firewall, PushProx Overview, and Architecture and Usage Scenarios sections.

NEW QUESTION # 32

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. `sum(node_memory_MemAvailable_bytes) setoff 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 # 33

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