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>> Reliable PCA Exam Guide <<

Updated PCA - Reliable Prometheus Certified Associate Exam Exam Guide

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q34-Q39):

NEW QUESTION # 34
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 # 35
What is the best way to expose a timestamp from your application?

- A. With a counter that is increased to the correct value.
- B. With a constant metric of value 1 and the timestamp as metric timestamp.
- C. With a gauge that has the timestamp as value.
- D. With a constant metric of value 1 and the timestamp as label.

Answer: C

Explanation:
The correct way to expose a timestamp from an application in Prometheus is to use a gauge metric where the timestamp value (in Unix time, seconds since epoch) is stored as the metric's value. This approach aligns with the Prometheus data model, which discourages embedding timestamps as labels or metadata.
Example:
app_last_successful_backup_timestamp_seconds 1.696358e+09
In this example, the gauge represents the timestamp of the last successful backup. The _seconds suffix indicates the unit of measurement, making the metric self-descriptive. Prometheus automatically assigns timestamps to scraped samples, so the metric's value is treated purely as data, not as a Prometheus sample time.
Options B and D are incorrect because Prometheus does not allow arbitrary timestamps or labels for time values. Option C is incorrect since counters are monotonically increasing and not suited for discrete timestamp values.
Reference:
Verified from Prometheus documentation - Instrumentation Best Practices (Exposing Timestamps), Gauge Metric Semantics, and Metric Naming Conventions - _seconds suffix.

NEW QUESTION # 36
Which of the following metrics is unsuitable for a Prometheus setup?

- A. http_response_total{handler="static/*filepath"}
- B. promhttp_metric_handler_requests_total{code="500"}
- C. user_last_login_timestamp_seconds{email="john.doe@example.com"}
- D. prometheus_engine_query_log_enabled

Answer: C

Explanation:
The metric user_last_login_timestamp_seconds{email="john.doe@example.com"} is unsuitable for Prometheus because it includes a high-cardinality label (email). Each unique email address would generate a separate time series, potentially numbering in the millions,

which severely impacts Prometheus performance and memory usage.

Prometheus is optimized for low- to medium-cardinality metrics that represent system-wide behavior rather than per-user data. High-cardinality metrics cause data explosion, complicating queries and overwhelming the storage engine.

By contrast, the other metrics-prometheus_engine_query_log_enabled, promhttp_metric_handler_requests_total{code="500"}, and http_response_total{handler="static/*filepath"}-adhere to Prometheus best practices. They represent operational or service-level metrics with limited, manageable label value sets.

Reference:

Extracted and verified from Prometheus documentation - Metric and Label Naming Best Practices, Cardinality Management, and Anti-Patterns for Metric Design sections.

NEW QUESTION # 37

What does the evaluation_interval parameter in the Prometheus configuration control?

- A. How often Prometheus sends metrics to remote storage.
- B. How often Prometheus evaluates recording and alerting rules.
- C. How often Prometheus compacts the TSDB data blocks.
- D. How often Prometheus scrapes targets.

Answer: B

Explanation:

The evaluation_interval parameter defines how frequently Prometheus evaluates its recording and alerting rules. It determines the schedule at which the rule engine runs, checking whether alert conditions are met and generating new time series for recording rules.

For example, setting:

global:

evaluation_interval: 30s

means Prometheus evaluates all configured rules every 30 seconds. This setting differs from scrape_interval, which controls how often Prometheus collects data from targets.

Having a proper evaluation interval ensures alerting latency is balanced with system performance.

NEW QUESTION # 38

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

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

Answer: D

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 # 39

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