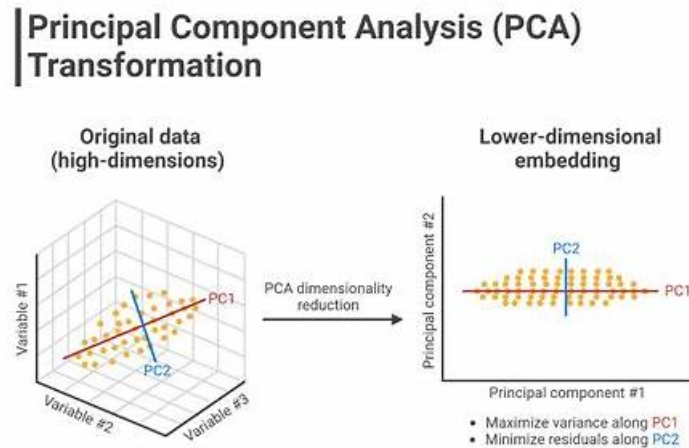


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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q11-Q16):

NEW QUESTION # 11

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

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

Answer: A

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 `/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 # 12

What is the best way to expose a timestamp from your application?

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

Answer: A

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 # 13

What does `scrape_interval` configure in Prometheus?

- A. It defines how often to send alerts.
- B. It defines how frequently to scrape targets.
- C. It defines how often to refresh metrics.
- D. It defines how frequently to evaluate rules.

Answer: B

Explanation:

In Prometheus, the `scrape_interval` parameter specifies how frequently the Prometheus server should scrape metrics from its configured targets. Each target exposes an HTTP endpoint (usually `/metrics`) that Prometheus collects data from at a fixed cadence. By default, the `scrape_interval` is set to 1 minute, but it can be overridden globally or per job configuration in the Prometheus YAML configuration file.

This setting directly affects the resolution of collected time series data—a shorter interval increases data granularity but also adds network and storage overhead, while a longer interval reduces load but might miss short-lived metric variations.

It is important to distinguish `scrape_interval` from `evaluation_interval`, which defines how often Prometheus evaluates recording and alerting rules. Thus, `scrape_interval` pertains only to data collection frequency, not to alerting or rule evaluation.

Reference:

Extracted and verified from Prometheus documentation on Configuration File - `scrape_interval` and Scraping Fundamentals sections.

NEW QUESTION # 14

Which Alertmanager feature allows you to temporarily stop notifications for a specific alert?

- A. Deduplication
- B. Grouping
- **C. Silence**
- D. Inhibition

Answer: C

Explanation:

The Silence feature in Alertmanager allows operators to mute specific alerts for a defined period. Each silence includes a matcher (labels), a creator, a comment, and an expiration time.

Silencing is useful during maintenance windows or known outages to prevent alert noise. Unlike inhibition, silences are manual and explicit.

NEW QUESTION # 15

What is the maximum number of Alertmanagers that can be added to a Prometheus instance?

- A. 0
- **B. More than 3**
- C. 1
- D. 2

Answer: B

Explanation:

Prometheus supports integration with multiple Alertmanager instances for redundancy and high availability. The alerting section of the Prometheus configuration file (prometheus.yml) allows specifying a list of Alertmanager targets, enabling Prometheus to send alerts to several Alertmanager nodes simultaneously.

There is no hard-coded limit on the number of Alertmanagers that can be added. The typical best practice is to run a minimum of three Alertmanagers in a clustered setup to achieve fault tolerance and ensure reliable alert delivery, but Prometheus can be configured with more than three if desired.

Each Alertmanager node in the cluster communicates state information (active, silenced, inhibited alerts) with its peers to maintain consistency.

Reference:

Verified from Prometheus documentation - Alertmanager Integration, High Availability Setup, and Prometheus Configuration - alerting Section.

NEW QUESTION # 16

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