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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 (Q57-Q62):

NEW QUESTION # 57

Given the metric `prometheus_tsdb_lowest_timestamp_seconds`, how do you know in which month the lowest timestamp of your Prometheus TSDB belongs?

- A. `(time() - prometheus_tsdb_lowest_timestamp_seconds) / 86400`
- B. `prometheus_tsdb_lowest_timestamp_seconds % month`
- C. `month(prometheus_tsdb_lowest_timestamp_seconds)`
- D. `format_date(prometheus_tsdb_lowest_timestamp_seconds, "%M")`

Answer: A

Explanation:

The metric `prometheus_tsdb_lowest_timestamp_seconds` provides the oldest stored sample timestamp in Prometheus's local TSDB (in Unix epoch seconds). To determine the age or approximate date of this timestamp, you compare it with the current time (using

time() in PromQL).

The expression:

`(time() - prometheus_tsdb_lowest_timestamp_seconds) / 86400`

converts the difference between the current time and the oldest timestamp from seconds into days (1 day = 86,400 seconds). This gives the number of days since the earliest sample was stored, allowing you to infer the time range and approximate month manually. The other options are invalid because PromQL does not support direct date formatting (`format_date`) or `month()` extraction functions.

Reference:

Extracted and verified from Prometheus documentation - TSDB Internal Metrics, Time Functions in PromQL, and Using `time()` for Relative Calculations.

NEW QUESTION # 58

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 "federation"
- C. With "remote write"
- D. With "scraping"

Answer: C

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 # 59

You'd like to monitor a short-lived batch job. What Prometheus component would you use?

- A. PushProxy
- B. PullGateway
- C. PushGateway
- D. PullProxy

Answer: C

Explanation:

Prometheus normally operates on a pull-based model, where it scrapes metrics from long-running targets. However, short-lived batch jobs (such as cron jobs or data processing tasks) often finish before Prometheus can scrape them. To handle this scenario, Prometheus provides the Pushgateway component.

The Pushgateway allows ephemeral jobs to push their metrics to an intermediary gateway. Prometheus then scrapes these metrics from the Pushgateway like any other target. This ensures short-lived jobs have their metrics preserved even after completion.

The Pushgateway should not be used for continuously running applications because it breaks Prometheus's usual target lifecycle semantics. Instead, it is intended solely for transient job metrics, like backups or CI/CD tasks.

Reference:

Verified from Prometheus documentation - Pushing Metrics - The Pushgateway and Use Cases for Short-Lived Jobs sections.

NEW QUESTION # 60

How do you calculate the average request duration during the last 5 minutes from a histogram or summary called `http_request_duration_seconds`?

- A. $\text{rate}(\text{http_request_duration_seconds_total}[5\text{m}]) / \text{rate}(\text{http_request_duration_seconds_count}[5\text{m}])$
- B. $\text{rate}(\text{http_request_duration_seconds_total}[5\text{m}]) / \text{rate}(\text{http_request_duration_seconds_average}[5\text{m}])$
- C. $\text{rate}(\text{http_request_duration_seconds_sum}[5\text{m}]) / \text{rate}(\text{http_request_duration_seconds_average}[5\text{m}])$
- D. $\text{rate}(\text{http_request_duration_seconds_sum}[5\text{m}]) / \text{rate}(\text{http_request_duration_seconds_count}[5\text{m}])$

Answer: D

Explanation:

In Prometheus, histograms and summaries expose metrics with `_sum` and `_count` suffixes to represent total accumulated values and sample counts, respectively. To compute the average request duration over a given time window (for example, 5 minutes), you divide the rate of increase of `_sum` by the rate of increase of `_count`:

$$\text{Average duration} = \frac{\text{rate}(\text{http_request_duration_seconds_sum}[5\text{m}])}{\text{rate}(\text{http_request_duration_seconds_count}[5\text{m}])}$$

Here, `http_request_duration_seconds_sum` represents the total accumulated request time, and `http_request_duration_seconds_count` represents the number of requests observed.

By dividing these rates, you obtain the average request duration per request over the specified time range.

Reference:

Extracted and verified from Prometheus documentation - Querying Histograms and Summaries, PromQL Rate Function, and Metric Naming Conventions sections.

NEW QUESTION # 61

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

- A. `node_exporter`
- B. `metrics_exporter`
- C. `Prometheus_exporter`
- D. `os_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 `/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 # 62

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