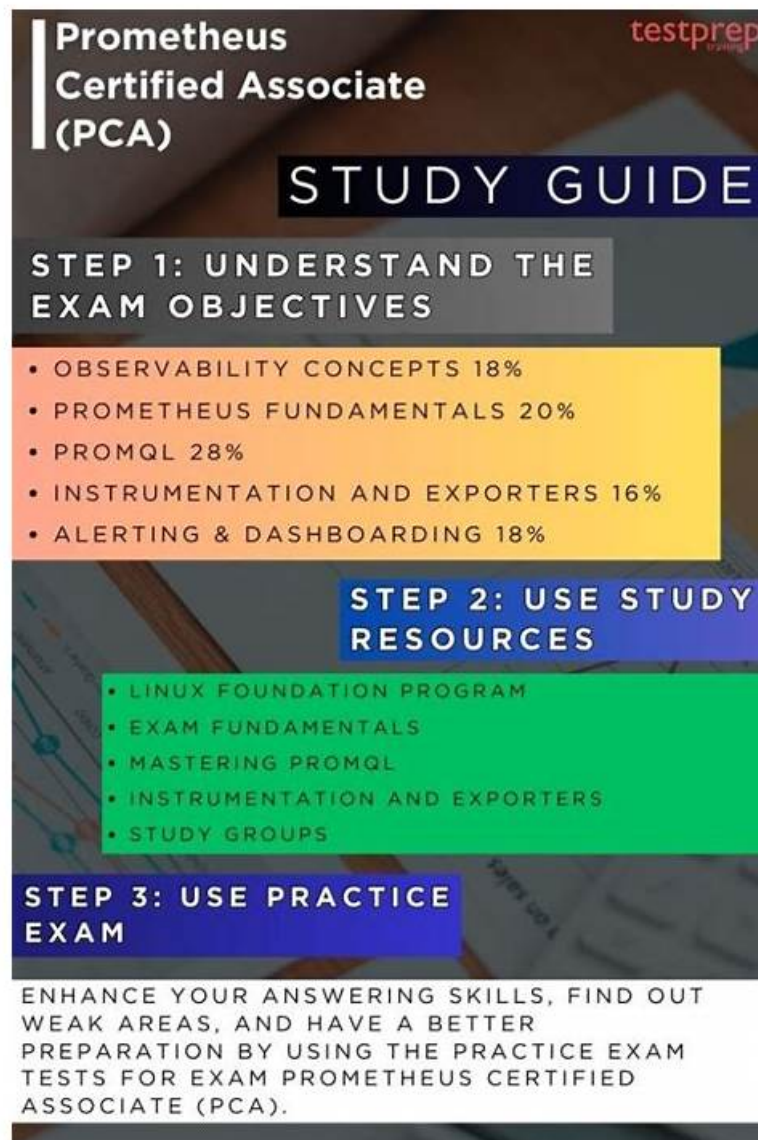# PCA Prep Guide | PCA Test Fee

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q15-Q20):

NEW QUESTION # 15
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="server1"} 0
- B. {instance="localhost"} 1 {instance="server1"} 0

Answer: B

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 # 16
Which of the following is a valid metric name?

- A. go routines
- B. go_goroutines
- C. 99_goroutines
- D. go.goroutines

Answer: B

Explanation:
According to Prometheus naming rules, metric names must match the regex [a-zA-Z_:][a-zA-Z0-9_:]*. This means metric names must begin with a letter, underscore, or colon, and can only contain letters, digits, and underscores thereafter.
The valid metric name among the options is go_goroutines, which follows all these rules. It starts with a letter (g), uses underscores to separate words, and contains only allowed characters.
By contrast:
go routines is invalid because it contains a space.
go.goroutines is invalid because it contains a dot (.), which is reserved for recording rule naming hierarchies, not metric identifiers.
99_goroutines is invalid because metric names cannot start with a number.
Following these conventions ensures compatibility with PromQL syntax and Prometheus' internal data model.
Reference:
Extracted from Prometheus documentation - Metric Naming Conventions and Data Model Rules sections.

NEW QUESTION # 17
What does the increase() function do in PromQL?

- A. Returns the total sum of values in a vector.
- B. Calculates the percentage increase of a counter over time.
- C. Returns the absolute increase in a counter over a specified range.
- D. Calculates the derivative of a gauge over time.

Answer: C

Explanation:
The increase() function computes the total increase in a counter metric over a specified range vector. It accounts for counter resets and only measures the net change in the counter's value during the time window.
Example:
increase(http_requests_total[5m])
This query returns how many HTTP requests occurred in the last five minutes. Unlike rate(), which provides a per-second average rate, increase() gives the absolute number of increments.

NEW QUESTION # 18
Which Prometheus component handles service discovery?

- A. Node Exporter
- B. Prometheus Server
- C. Alertmanager
- D. Pushgateway

Answer: B

Explanation:
The Prometheus Server is responsible for service discovery, which identifies the list of targets to scrape. It integrates with multiple service discovery mechanisms such as Kubernetes, Consul, EC2, and static configurations.
This allows Prometheus to automatically adapt to dynamic environments without manual reconfiguration.

NEW QUESTION # 19
What does the rate() function in PromQL return?

- A. The number of samples in a range vector.
- B. The average of all values in a vector.
- C. The total increase of a counter over a range.
- D. The per-second rate of increase of a counter metric.

Answer: D

Explanation:
The rate() function calculates the average per-second rate of increase of a counter over the specified range. It smooths out short-term fluctuations and adjusts for counter resets.
Example:
rate(http_requests_total[5m])
returns the number of requests per second averaged over the last five minutes. This function is frequently used in dashboards and alerting expressions.

NEW QUESTION # 20
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