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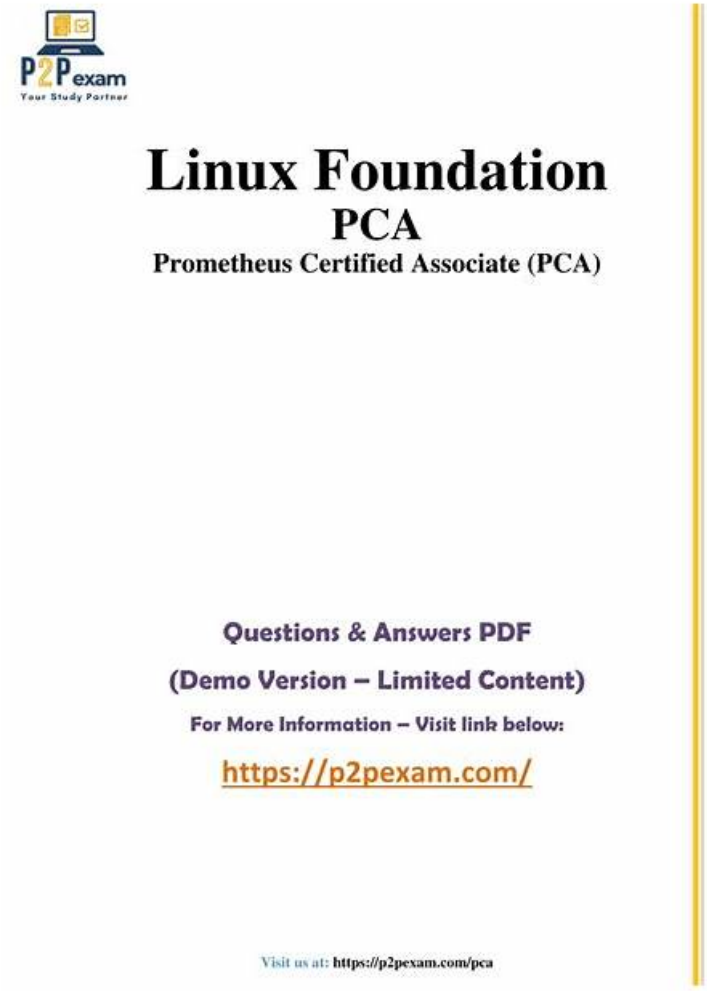

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q22-Q27):

NEW QUESTION # 22
What is the best way to expose a timestamp from your application?

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

Answer: B

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 # 23
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 # 24
What Prometheus component would you use if targets are running behind a Firewall/NAT?

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

Answer: A

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 # 25
Which PromQL statement returns the average free bytes of the filesystems over the last hour?

- A. avg(node_filesystem_avail_bytes[1h])
- B. sum_over_time(node_filesystem_avail_bytes[1h])
- C. avg_over_time(node_filesystem_avail_bytes[1h])
- D. sum(node_filesystem_avail_bytes[1h])

Answer: C

Explanation:
The avg_over_time() function calculates the average value of a time series over a specified range vector. It is used to measure how a gauge metric (like available filesystem bytes) behaves over time rather than at a single instant.
For example:
avg_over_time(node_filesystem_avail_bytes[1h])
This query returns the average amount of available filesystem space observed across all samples within the last hour for each time series.
By contrast:
avg() performs aggregation across different series at a single point, not over time.
sum() and sum_over_time() compute totals rather than averages.
Thus, only avg_over_time() provides the correct temporal average.
Reference:
Extracted and verified from Prometheus documentation - Range Vector Functions, avg_over_time() Definition, and Working with Gauge Metrics Over Time sections.

NEW QUESTION # 26
What does the rate() function in PromQL return?

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

Answer: B

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 # 27
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