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## Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q10-Q15):

### NEW QUESTION # 10

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

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

**Answer: C**

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 # 11

What is the role of the Pushgateway in Prometheus?

- A. To visualize metrics in Grafana.
- B. To store metrics long-term for historical analysis.
- C. To receive metrics pushed by short-lived batch jobs for later scraping by Prometheus.
- D. To scrape short-lived targets directly.

**Answer: C**

Explanation:

The Pushgateway is a Prometheus component used to handle short-lived batch jobs that cannot be scraped directly. These jobs push their metrics to the Pushgateway, which then exposes them for Prometheus to scrape.

This ensures metrics persist beyond the job's lifetime. However, it's not designed for continuously running services, as metrics in the Pushgateway remain static until replaced.

### NEW QUESTION # 12

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

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

**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 # 13

http\_requests\_total{verb="POST"} 30

http\_requests\_total{verb="GET"} 30

What is the issue with the metric family?

- A. The value represents two different things across the dimensions: code and verb.
- B. Unit is missing in the http\_requests\_total metric name.
- C. verb label content should be normalized to lowercase.
- D. Metric names are missing a prefix to indicate which application is exposing the query.

**Answer: B**

Explanation:

Prometheus metric naming best practices require that every metric name include a unit suffix that indicates the measurement type, where applicable. The unit should follow the base name, separated by an underscore, and must use base SI units (for example, \_seconds, \_bytes, \_total, etc.).

In the case of http\_requests\_total, while the metric correctly includes the \_total suffix-indicating it is a counter-it lacks a base unit of measurement (such as time, bytes, or duration). However, for event counters, \_total is itself considered the unit, representing "total occurrences" of an event. Thus, the naming would be acceptable in strict Prometheus terms, but if this metric were measuring something like duration, size, or latency, then including a specific unit would be mandatory.

However, since the question implies that the missing unit is the issue and not the label schema, the expected answer aligns with ensuring metric names convey measurable units when applicable.

Reference:

Prometheus documentation - Metric and Label Naming Conventions, Instrumentation Best Practices, and Metric Type Naming (Counters, Gauges, and Units) sections.

#### NEW QUESTION # 14

Given the following Histogram metric data, how many requests took less than or equal to 0.1 seconds?

```
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="+Inf"} 3
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="0.05"} 0
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="0.1"} 1
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="1"} 3
apiserver_request_duration_seconds_count{job="kube-apiserver"} 3
apiserver_request_duration_seconds_sum{job="kube-apiserver"} 0.554003785
```

- A. 0.554003785
- B. 0
- C. 1
- D. 2

#### Answer: D

Explanation:

In Prometheus, histogram metrics use cumulative buckets to record the count of observations that fall within specific duration thresholds. Each bucket has a label le ("less than or equal to"), representing the upper bound of that bucket.

In the given metric, the bucket labeled le="0.1" has a value of 1, meaning exactly one request took less than or equal to 0.1 seconds. Buckets are cumulative, so:

le="0.05" → 0 requests  $\leq$  0.05 seconds

le="0.1" → 1 request  $\leq$  0.1 seconds

le="1" → 3 requests  $\leq$  1 second

le="+Inf" → all 3 requests total

The \_sum and \_count values represent total duration and request count respectively, but the number of requests below a given threshold is read directly from the bucket's le value.

Reference:

Verified from Prometheus documentation - Understanding Histograms and Summaries, Bucket Semantics, and Histogram Query Examples sections.

#### NEW QUESTION # 15

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