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atmosphere like home.

Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21

Which function would you use to calculate the 95th percentile latency from histogram data?

- A. `topk(0.95, http_request_duration_seconds)`
- B. `histogram_quantile(0.95, sum(rate(http_request_duration_seconds_bucket[5m])) by (le))`
- C. `quantile_over_time(0.95, http_request_duration_seconds[5m])`
- D. `percentile(http_request_duration_seconds, 0.95)`

Answer: B

Explanation:

To calculate a percentile (e.g., 95th percentile) from histogram data in Prometheus, the correct function is `histogram_quantile()`. It estimates quantiles based on cumulative bucket counts.

Example:

`histogram_quantile(0.95, sum(rate(http_request_duration_seconds_bucket[5m])) by (le))` This computes the 95th percentile request duration across all observed instances over the last 5 minutes.

NEW QUESTION # 22

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

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

Answer: D

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 # 23

What is an example of a single-target exporter?

- A. Blackbox Exporter
- B. Node Exporter
- C. SNMP Exporter
- D. **Redis Exporter**

Answer: D

Explanation:

A single-target exporter in Prometheus is designed to expose metrics for a specific service instance rather than multiple dynamic endpoints. The Redis Exporter is a prime example - it connects to one Redis server instance and exports its metrics (like memory usage, keyspace hits, or command statistics) to Prometheus.

By contrast, exporters like the SNMP Exporter and Blackbox Exporter can probe multiple targets dynamically, making them multi-

target exporters. The Node Exporter, while often deployed per host, is considered a host-level exporter, not a true single-target one in configuration behavior.

The Redis Exporter is instrumented specifically for a single Redis endpoint per configuration, aligning it with Prometheus's single-target exporter definition. This design simplifies monitoring and avoids dynamic reconfiguration.

Reference:

Verified from Prometheus documentation and official exporter guidelines - Writing Exporters, Exporter Types, and Redis Exporter Overview sections.

NEW QUESTION # 24

What is metamonitoring?

- A. Metamonitoring is the monitoring of non-IT systems.
- B. Metamonitoring is a monitoring that covers 100% of a service.
- **C. Metamonitoring is the monitoring of the monitoring infrastructure.**
- D. Metamonitoring is monitoring social networks for end user complaints about quality of service.

Answer: C

Explanation:

Metamonitoring refers to monitoring the monitoring system itself-ensuring that Prometheus, Alertmanager, exporters, and dashboards are functioning properly. In other words, it's the observability of your observability stack.

This practice helps detect issues such as:

Prometheus not scraping targets,
Alertmanager being unreachable,
Exporters not exposing data, or
Storage being full or corrupted.

Without metamonitoring, an outage in the monitoring system could go unnoticed, leaving operators blind to actual infrastructure problems. A common approach is to use a secondary Prometheus instance (or external monitoring service) to monitor the health metrics of the primary Prometheus and related components.

Reference:

Verified from Prometheus documentation - Monitoring Prometheus Itself, Operational Best Practices, and Reliability of the Monitoring Infrastructure.

NEW QUESTION # 25

What does the `increase()` function do in PromQL?

- A. Calculates the percentage increase of a counter over time.
- B. Returns the total sum of values in a vector.
- **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 # 26

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