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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q20-Q25):

NEW QUESTION # 20
What is an example of a single-target exporter?

- A. Node Exporter
- B. Blackbox 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 # 21
What is the maximum number of Alertmanagers that can be added to a Prometheus instance?

- A. 0
- B. 1
- C. More than 3
- D. 2

Answer: C

Explanation:
Prometheus supports integration with multiple Alertmanager instances for redundancy and high availability. The alerting section of the Prometheus configuration file (prometheus.yml) allows specifying a list of Alertmanager targets, enabling Prometheus to send alerts to several Alertmanager nodes simultaneously.
There is no hard-coded limit on the number of Alertmanagers that can be added. The typical best practice is to run a minimum of three Alertmanagers in a clustered setup to achieve fault tolerance and ensure reliable alert delivery, but Prometheus can be configured with more than three if desired.
Each Alertmanager node in the cluster communicates state information (active, silenced, inhibited alerts) with its peers to maintain consistency.
Reference:
Verified from Prometheus documentation - Alertmanager Integration, High Availability Setup, and Prometheus Configuration - alerting Section.

NEW QUESTION # 22
What is metamonitoring?

- A. Metamonitoring is monitoring social networks for end user complaints about quality of service.
- B. Metamonitoring is a monitoring that covers 100% of a service.

- C. Metamonitoring is the monitoring of non-IT systems.
- D. Metamonitoring is the monitoring of the monitoring infrastructure.

Answer: D

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 # 23
What is the difference between client libraries and exporters?

- A. Exporters and client libraries mean the same thing.
- B. Exporters are written in Go. Client libraries are written in many languages.
- C. Exporters run next to the services to monitor, and use client libraries internally.
- D. Exporters expose metrics for scraping. Client libraries push metrics via Remote Write.

Answer: C

Explanation:
The fundamental difference between Prometheus client libraries and exporters lies in how and where they are used.
Client libraries are integrated directly into the application's codebase. They allow developers to instrument their own code to define and expose custom metrics. Prometheus provides official client libraries for multiple languages, including Go, Java, Python, and Ruby.
Exporters, on the other hand, are standalone processes that run alongside the applications or systems they monitor. They use client libraries internally to collect and expose metrics from software that cannot be instrumented directly (e.g., operating systems, databases, or third-party services). Examples include the Node Exporter (for system metrics) and MySQL Exporter (for database metrics).
Thus, exporters are typically used for external systems, while client libraries are used for self-instrumented applications.
Reference:
Verified from Prometheus documentation - Writing Exporters, Client Libraries Overview, and Best Practices for Exporters and Instrumentation.

NEW QUESTION # 24
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. month(prometheus_tsdb_lowest_timestamp_seconds)
- C. prometheus_tsdb_lowest_timestamp_seconds % month
- 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 # 25

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