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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q57-Q62):

NEW QUESTION # 57
Which metric type uses the delta() function?

- A. Counter
- B. Info
- C. Gauge
- D. Histogram

Answer: C

Explanation:
The delta() function in PromQL calculates the difference between the first and last samples in a range vector over a specified time window. This function is primarily used with gauge metrics, as they can move both up and down, and delta() captures that net change directly.

For example, if a gauge metric like node_memory_Active_bytes changes from 1000 to 1200 within a 5-minute window, delta(node_memory_Active_bytes[5m]) returns 200.

Unlike rate() or increase(), which are designed for monotonically increasing counters, delta() is ideal for metrics representing resource levels, capacities, or instantaneous measurements that fluctuate over time.

Reference:
Verified from Prometheus documentation - PromQL Range Functions - delta(), Gauge Semantics and Usage, and Comparing delta() and rate() sections.

NEW QUESTION # 58
What is the minimum requirement for an application to expose Prometheus metrics?

- A. It must be compiled for 64-bit architectures.
- B. It must be exposed to the Internet.
- C. It must be able to serve text over HTTP.
- D. It must run on Linux.

Answer: C

Explanation:
Prometheus collects metrics by scraping an HTTP endpoint exposed by the target application. Therefore, the only essential requirement for an application to expose metrics to Prometheus is that it serves metrics in the Prometheus text exposition format over HTTP.

This endpoint is conventionally available at /metrics and provides metrics in plain text format (e.g., Content-Type: text/plain; version=0.0.4). The application can run on any operating system, architecture, or network - as long as Prometheus can reach its endpoint.

It does not need to be Internet-accessible (it can be internal) and is not limited to Linux or any specific bitness.

Reference:
Verified from Prometheus documentation - Exposition Formats, Instrumenting Applications, and Target Scraping Requirements sections.

NEW QUESTION # 59
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 # 60

How can you use Prometheus Node Exporter?

- A. You can use it to instrument applications with metrics.
- B. You can use it to probe endpoints over HTTP, HTTPS.
- C. You can use it to collect metrics for hardware and OS metrics.
- D. You can use it to collect resource metrics from the application HTTP server.

Answer: C

Explanation:
The Prometheus Node Exporter is a core system-level exporter that exposes hardware and operating system metrics from *nix-based hosts. It collects metrics such as CPU usage, memory, disk I/O, filesystem space, network statistics, and load averages.
It runs as a lightweight daemon on each host and exposes metrics via an HTTP endpoint (default: :9100/metrics), which Prometheus scrapes periodically.
Key clarification:
It does not instrument applications (A).
It does not collect metrics directly from application HTTP endpoints (B).
It is unrelated to HTTP probing tasks - those are handled by the Blackbox Exporter (D).
Thus, the correct use of the Node Exporter is to collect and expose hardware and OS-level metrics for Prometheus monitoring.
Reference:
Extracted and verified from Prometheus documentation - Node Exporter Overview, Host-Level Monitoring, and Exporter Usage Best Practices sections.

NEW QUESTION # 61

Which of the following PromQL queries is invalid?

- A. max without (instance, job) up
- B. max on (instance) (up)
- C. max by (instance) up
- D. max without (instance) up

Answer: B

Explanation:
The max operator in PromQL is an aggregation operator, not a binary vector matching operator. Therefore, the valid syntax for aggregation uses by() or without(), not on().
☐ max by (instance) up → Valid; aggregates maximum values per instance.
☐ max without (instance) up and max without (instance, job) up → Valid; aggregates over all labels except those listed.
☐ max on (instance) (up) → Invalid; the keyword on() is only valid in binary operations (e.g., +, -, and, or, unless), where two vectors are being matched on specific labels.
Hence, max on (instance) (up) is a syntax error in PromQL because on() cannot be used directly with aggregation operators.
Reference:
Verified from Prometheus documentation - Aggregation Operators, Vector Matching - on()/ignoring(), and PromQL Language Syntax Reference sections.

NEW QUESTION # 62

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