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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38

What does the `evaluation_interval` parameter in the Prometheus configuration control?

- A. How often Prometheus evaluates recording and alerting rules.
- B. How often Prometheus scrapes targets.
- C. How often Prometheus compacts the TSDB data blocks.
- D. How often Prometheus sends metrics to remote storage.

Answer: A

Explanation:

The `evaluation_interval` parameter defines how frequently Prometheus evaluates its recording and alerting rules. It determines the schedule at which the rule engine runs, checking whether alert conditions are met and generating new time series for recording rules. For example, setting:

global:

`evaluation_interval: 30s`

means Prometheus evaluates all configured rules every 30 seconds. This setting differs from `scrape_interval`, which controls how often Prometheus collects data from targets.

Having a proper evaluation interval ensures alerting latency is balanced with system performance.

NEW QUESTION # 39

The following is a list of metrics exposed by an application:

`http_requests_total{code="500"} 10`

`http_requests_total{code="200"} 20`

`http_requests_total{code="400"} 30`

`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. Metric names are missing a prefix to indicate which application is exposing the query.

Answer: A

Explanation:

Prometheus requires that a single metric name represents one well-defined thing, and all time series in that metric share the same set of label keys so the value's meaning is consistent across dimensions. The official guidance states that metrics should not "mix different dimensions under the same name," and that a metric name should have a consistent label schema; otherwise, "the same metric name would represent different things," making queries ambiguous and aggregations error-prone. In the example,

`http_requests_total{code="..."}` expresses per-status-code request counts, while `http_requests_total{verb="..."}` expresses per-HTTP-method request counts. Because some series have only code and others only verb, the value changes its meaning across label sets, violating the consistency principle for a metric family. The correct approach is to expose one metric with both labels present on every series, e.g., `http_requests_total{code="200", method="GET"}`, ensuring every time series has the same label keys and the value always means "count of requests," sliced by the same dimensions. A missing application prefix is optional and not the core issue here.

NEW QUESTION # 40

How do you configure the rule evaluation interval in Prometheus?

- A. You can configure the evaluation interval in the scraping job configuration file and in the command-line flags.
- B. You can configure the evaluation interval in the Prometheus TSDB configuration file and in the rule configuration file.
- **C. You can configure the evaluation interval in the global configuration file and in the rule configuration file.**
- D. You can configure the evaluation interval in the service discovery configuration and in the command-line flags.

Answer: C

Explanation:

Prometheus evaluates alerting and recording rules at a regular cadence determined by the `evaluation_interval` setting. This can be defined globally in the main Prometheus configuration file (`prometheus.yml`) under the `global:` section or overridden for specific rule groups in the rule configuration files.

The global `evaluation_interval` specifies how frequently Prometheus should execute all configured rules, while rule-specific intervals can fine-tune evaluation frequency for individual groups. For instance:

`global:`

`evaluation_interval: 30s`

This means Prometheus evaluates rules every 30 seconds unless a rule file specifies otherwise.

This parameter is distinct from `scrape_interval`, which governs metric collection frequency from targets. It has no relation to TSDB, service discovery, or command-line flags.

Reference:

Verified from Prometheus documentation - Configuration File Reference, Rule Evaluation and Recording Rules sections.

NEW QUESTION # 41

What is the best way to expose a timestamp from your application?

- A. With a constant metric of value 1 and the timestamp as metric timestamp.
- **B. With a gauge that has the timestamp as value.**
- C. With a constant metric of value 1 and the timestamp as label.
- 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 # 42

What does `scrape_interval` configure in Prometheus?

- **A. It defines how frequently to scrape targets.**
- B. It defines how often to send alerts.
- C. It defines how frequently to evaluate rules.
- D. It defines how often to refresh metrics.

Answer: A

Explanation:

In Prometheus, the `scrape_interval` parameter specifies how frequently the Prometheus server should scrape metrics from its configured targets. Each target exposes an HTTP endpoint (usually `/metrics`) that Prometheus collects data from at a fixed cadence.

By default, the `scrape_interval` is set to 1 minute, but it can be overridden globally or per job configuration in the Prometheus YAML configuration file.

This setting directly affects the resolution of collected time series data—a shorter interval increases data granularity but also adds network and storage overhead, while a longer interval reduces load but might miss short-lived metric variations.

It is important to distinguish `scrape_interval` from `evaluation_interval`, which defines how often Prometheus evaluates recording and alerting rules. Thus, `scrape_interval` pertains only to data collection frequency, not to alerting or rule evaluation.

Reference:

Extracted and verified from Prometheus documentation on Configuration File - `scrape_interval` and Scraping Fundamentals sections.

NEW QUESTION # 43

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