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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q52-Q57):

NEW QUESTION # 52

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 # 53

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 # 54

Which of the following PromQL queries is invalid?

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

Answer: C

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 # 55

If the vector selector `foo[5m]` contains 1 1 NaN, what would `max_over_time(foo[5m])` return?

- A. No answer.
- B. NaN
- C. It errors out.
- **D. 0**

Answer: D

Explanation:

In PromQL, range vector functions like `max_over_time()` compute an aggregate value (in this case, the maximum) over all samples within a specified time range. The function ignores NaN (Not-a-Number) values when computing the result.

Given the range vector `foo[5m]` containing samples `[1, 1, NaN]`, the maximum value among the valid numeric samples is 1.

Therefore, `max_over_time(foo[5m])` returns 1.

Prometheus functions handle missing or invalid data points gracefully-ignoring NaN ensures stable calculations even when intermittent collection issues or resets occur. The function only errors if the selector is syntactically invalid or if no numeric samples exist at all.

Reference:

Verified from Prometheus documentation - PromQL Range Vector Functions, Aggregation Over Time Functions, and Handling NaN Values in PromQL sections.

NEW QUESTION # 56

What are the four golden signals of monitoring as defined by Google's SRE principles?

- A. Requests, CPU, Memory, Latency
- B. Utilization, Load, Disk, Network
- **C. Traffic, Errors, Latency, Saturation**
- D. Availability, Logging, Errors, Throughput

Answer: C

Explanation:

The Four Golden Signals-Traffic, Errors, Latency, and Saturation-are key service-level indicators defined by Google's Site Reliability Engineering (SRE) discipline.

Traffic: Demand placed on the system (e.g., requests per second).

Errors: Rate of failed requests.

Latency: Time taken to serve requests.

Saturation: How "full" the system resources are (CPU, memory, etc.).

Prometheus and its metrics-based model are ideal for capturing these signals.

NEW QUESTION # 57

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