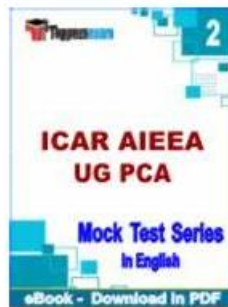


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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47

What is a rule group?

- A. It is a set of rules that are grouped by labels.
- B. It is the set (the group) of all the rules in a file.
- C. It is a set of rules, split into groups by type.
- **D. It is a set of rules that are executed sequentially.**

Answer: D

Explanation:

In Prometheus, a rule group is a logical collection of recording and alerting rules that are evaluated sequentially at a specified interval. Rule groups are defined in YAML files under the `groups:` key, with each group containing a name, an interval, and a list of rules.

For example:

`groups:`

`- name: example`

`interval: 1m`

`rules:`

`- record: job:http_inprogress_requests:sum`

`expr: sum(http_inprogress_requests) by (job)`

All rules in a group share the same evaluation schedule and are executed one after another. This ensures deterministic order, especially when one rule depends on another's result.

Reference:

Verified from Prometheus documentation - Rule Configuration, Rule Groups and Evaluation Order, and Recording & Alerting Rules Guide.

NEW QUESTION # 48

Which PromQL statement returns the average free bytes of the filesystems over the last hour?

- A. `sum(node_filesystem_avail_bytes[1h])`
- B. `sum_over_time(node_filesystem_avail_bytes[1h])`
- **C. `avg_over_time(node_filesystem_avail_bytes[1h])`**
- D. `avg(node_filesystem_avail_bytes[1h])`

Answer: C

Explanation:

The `avg_over_time()` function calculates the average value of a time series over a specified range vector. It is used to measure how a gauge metric (like available filesystem bytes) behaves over time rather than at a single instant.

For example:

`avg_over_time(node_filesystem_avail_bytes[1h])`

This query returns the average amount of available filesystem space observed across all samples within the last hour for each time series.

By contrast:

`avg()` performs aggregation across different series at a single point, not over time.

`sum()` and `sum_over_time()` compute totals rather than averages.

Thus, only `avg_over_time()` provides the correct temporal average.

Reference:

Extracted and verified from Prometheus documentation - Range Vector Functions, `avg_over_time()` Definition, and Working with Gauge Metrics Over Time sections.

NEW QUESTION # 49

Which PromQL expression computes the rate of API Server requests across the different cloud providers from the following metrics?

`apiserver_request_total{job="kube-apiserver", instance="192.168.1.220:6443", cloud="aws"} 1`

`apiserver_request_total{job="kube-apiserver", instance="192.168.1.121:6443", cloud="gcloud"} 5`

- A. `rate(apiserver_request_total{job="kube-apiserver"}[5m]) by (cloud)`
- **B. `sum by (cloud)(rate(apiserver_request_total{job="kube-apiserver"}[5m]))`**

- C. `rate(sum by (cloud)(apiserver_request_total{job="kube-apiserver"})[5m])`
- D. `sum by (cloud) (apiserver_request_total{job="kube-apiserver"})`

Answer: B

Explanation:

The `rate()` function computes the per-second increase of a counter metric over a specified range, while `sum by (label)` aggregates those rates across dimensions - in this case, the `cloud` label.

The correct query is:

`sum by (cloud)(rate(apiserver_request_total{job="kube-apiserver"}[5m]))` This expression:

Calculates the rate of increase in API requests per second for each instance.

Groups and sums those rates by `cloud`, giving the total request rate per cloud provider.

Option A incorrectly places `by (cloud)` after `rate()`, which is not valid syntax.

Option B returns raw counter totals (not rates).

Option D incorrectly applies `rate()` after aggregation, which distorts the calculation since `rate()` must operate on individual time series before aggregation.

Reference:

Verified from Prometheus documentation - `rate()` Function, Aggregation Operators, and Querying Counters Across Labels sections.

NEW QUESTION # 50

Which Prometheus component handles service discovery?

- A. Alertmanager
- B. Pushgateway
- C. Prometheus Server
- D. Node Exporter

Answer: C

Explanation:

The Prometheus Server is responsible for service discovery, which identifies the list of targets to scrape. It integrates with multiple service discovery mechanisms such as Kubernetes, Consul, EC2, and static configurations.

This allows Prometheus to automatically adapt to dynamic environments without manual reconfiguration.

NEW QUESTION # 51

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. `prometheus_tsdb_lowest_timestamp_seconds % month`
- C. `month(prometheus_tsdb_lowest_timestamp_seconds)`
- 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 # 52

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