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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q15-Q20):

NEW QUESTION # 15

Where does Prometheus store its time series data by default?

- A. In an external database such as InfluxDB.
- B. In etcd.
- C. In an embedded TSDB on local disk.
- D. In-memory only.

Answer: C

Explanation:

By default, Prometheus stores its time series data in a local, embedded Time Series Database (TSDB) on disk. The data is organized in block files under the data/ directory inside Prometheus's storage path. Each block typically covers two hours of data, containing chunks, index, and metadata files. Older blocks are compacted and deleted based on retention settings.

NEW QUESTION # 16

Which of the following is a valid metric name?

- A. go.goroutines
- B. 99_goroutines
- C. go routines
- D. go_goroutines

Answer: D

Explanation:

According to Prometheus naming rules, metric names must match the regex `[a-zA-Z_][a-zA-Z0-9_]*`. This means metric names must begin with a letter, underscore, or colon, and can only contain letters, digits, and underscores thereafter.

The valid metric name among the options is `go_goroutines`, which follows all these rules. It starts with a letter (g), uses underscores to separate words, and contains only allowed characters.

By contrast:

`go routines` is invalid because it contains a space.

`go.goroutines` is invalid because it contains a dot (`.`), which is reserved for recording rule naming hierarchies, not metric identifiers.

`99_goroutines` is invalid because metric names cannot start with a number.

Following these conventions ensures compatibility with PromQL syntax and Prometheus' internal data model.

Reference:

Extracted from Prometheus documentation - Metric Naming Conventions and Data Model Rules sections.

NEW QUESTION # 17

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

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

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

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

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="kubernetes-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 # 18

What popular open-source project is commonly used to visualize Prometheus data?

- A. Grafana
- B. Loki
- C. Thanos
- D. Kibana

Answer: A

Explanation:

The most widely used open-source visualization and dashboarding platform for Prometheus data is Grafana. Grafana provides native integration with Prometheus as a data source, allowing users to create real-time, interactive dashboards using PromQL queries. Grafana supports advanced visualization panels (graphs, heatmaps, gauges, tables, etc.) and enables users to design custom dashboards to monitor infrastructure, application performance, and service-level objectives (SLOs). It also provides alerting capabilities that can complement or extend Prometheus's own alerting system.

While Kibana is part of the Elastic Stack and focuses on log analytics, Thanos extends Prometheus for long-term storage and high availability, and Loki is a log aggregation system. None of these tools serve as the primary dashboarding solution for Prometheus metrics the way Grafana does.

Grafana's seamless Prometheus integration and templating support make it the de facto standard visualization tool in the Prometheus ecosystem.

Reference:

Verified from Prometheus documentation - Visualizing Data with Grafana, and Grafana documentation - Prometheus Data Source Integration and Dashboard Creation Guide.

NEW QUESTION # 19

How can you select all the up metrics whose instance label matches the regex fe-.*?

- A. `up {instance~"fe-.*"}`
- B. `up {instance=regexp(fe-.*)}`
- C. `up {instance=~"fe-.*"}`
- D. `up {instance="fe-.*"}`

Answer: C

Explanation:

PromQL supports regular expression matching for label values using the `~` operator. To select all time series whose label values match a given regex pattern, you use the syntax `{label_name=~"regex"}`.

In this case, to select all up metrics where the instance label begins with fe-, the correct query is:

```
up {instance=~"fe-.*"}
```

Explanation of operators:

`=` → exact match.

`!=` → not equal.

`~` → regex match.

`!~` → regex not match.

Option D uses the correct `~` syntax. Options A and B use invalid PromQL syntax, and option C is almost correct but includes a misplaced extra quote style (`~"`), which would cause a parsing error.

Reference:

Verified from Prometheus documentation - Expression Language Data Selectors, Label Matchers, and Regular Expression Matching Rules.

NEW QUESTION # 20

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