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

NEW QUESTION # 15

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

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

Answer: D

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 # 16

Where does Prometheus store its time series data by default?

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

Answer: B

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 # 17

Which of the following signal belongs to symptom-based alerting?

- A. CPU usage
- **B. API latency**
- C. Database memory utilization
- D. Disk space

Answer: B

Explanation:

Symptom-based alerting focuses on user-visible problems or service-impacting symptoms rather than low-level resource metrics. In Prometheus and Site Reliability Engineering (SRE) practices, alerts should signal conditions that affect users' experience - such as high latency, request failures, or service unavailability - instead of merely reflecting internal resource states.

Among the options, API latency directly represents the performance perceived by end users. If API response times increase, it immediately impacts user satisfaction and indicates a possible service degradation.

In contrast, metrics like disk space, CPU usage, or database memory utilization are cause-based metrics - they may correlate with problems but do not always translate into observable user impact.

Prometheus alerting best practices recommend alerting on symptoms (via RED metrics - Rate, Errors, Duration) while using cause-based metrics for deeper investigation and diagnosis, not for immediate paging alerts.

Reference:

Verified from Prometheus documentation - Alerting Best Practices, Symptom vs. Cause Alerting, and RED/USE Monitoring Principles sections.

NEW QUESTION # 18

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

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

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

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

Answer: C

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"}[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 # 19

How can you send metrics from your Prometheus setup to a remote system, e.g., for long-term storage?

- A. With S3 Buckets
- B. With "remote write"
- C. With "scraping"
- D. With "federation"

Answer: B

Explanation:

Prometheus provides a feature called Remote Write to transmit scraped and processed metrics to an external system for long-term storage, aggregation, or advanced analytics. When configured, Prometheus continuously pushes time series data to the remote endpoint defined in the `remote_write` section of the configuration file.

This mechanism is often used to integrate with long-term data storage backends such as Cortex, Thanos, Mimir, or InfluxDB, enabling durable retention and global query capabilities beyond Prometheus's local time series database limits.

In contrast, "scraping" refers to data collection from targets, while "federation" allows hierarchical Prometheus setups (pulling metrics from other Prometheus instances) but does not serve as long-term storage. Using "S3 Buckets" directly is also unsupported in native Prometheus configurations.

Reference:

Extracted and verified from Prometheus documentation - Remote Write/Read APIs and Long-Term Storage Integrations sections.

NEW QUESTION # 20

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