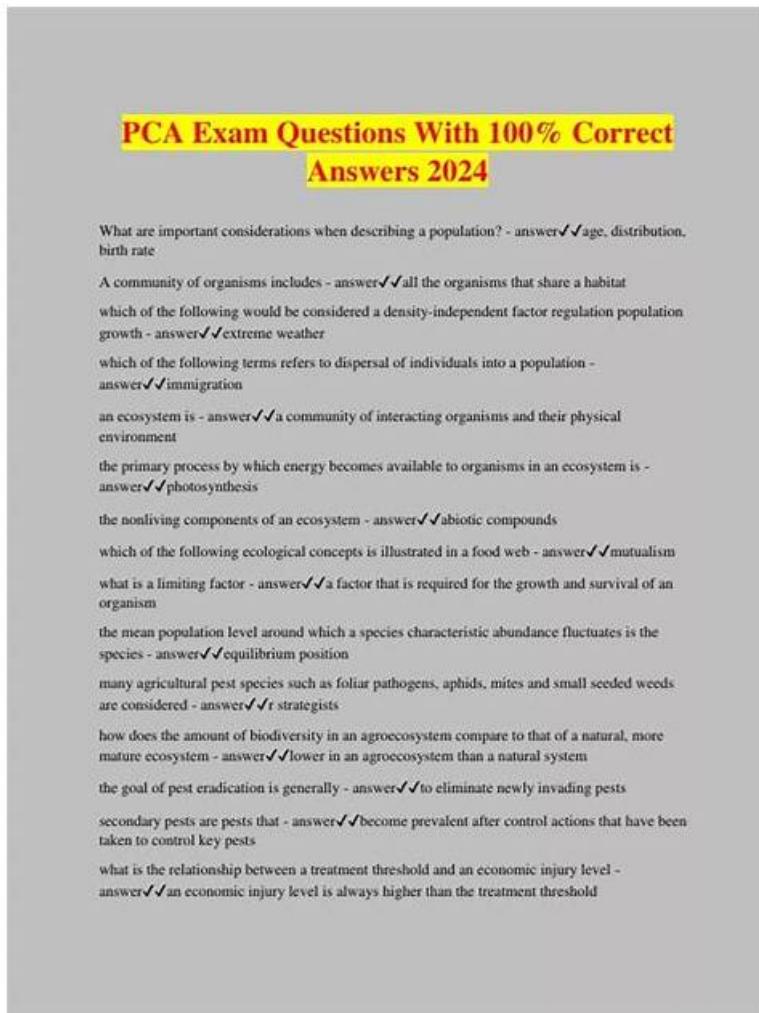


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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47

Where does Prometheus store its time series data by default?

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

Answer: A

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 # 48

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

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

Answer: B

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 # 49

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

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

Answer: B

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 # 50

What does the evaluation_interval parameter in the Prometheus configuration control?

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

Answer: B

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 # 51

Which of the following metrics is unsuitable for a Prometheus setup?

- A. promhttp_metric_handler_requests_total{code="500"}
- B. http_response_total{handler="static/*filepath"}
- C. prometheus_engine_query_log_enabled
- D. user_last_login_timestamp_seconds{email="john.doe@example.com"}

Answer: D

Explanation:

The metric user_last_login_timestamp_seconds{email="john.doe@example.com"} is unsuitable for Prometheus because it includes a high-cardinality label (email). Each unique email address would generate a separate time series, potentially numbering in the millions, which severely impacts Prometheus performance and memory usage.

Prometheus is optimized for low- to medium-cardinality metrics that represent system-wide behavior rather than per-user data.

High-cardinality metrics cause data explosion, complicating queries and overwhelming the storage engine.

By contrast, the other metrics - prometheus_engine_query_log_enabled, promhttp_metric_handler_requests_total{code="500"}, and http_response_total{handler="static/*filepath"} - adhere to Prometheus best practices. They represent operational or service-level metrics with limited, manageable label value sets.

Reference:

Extracted and verified from Prometheus documentation - Metric and Label Naming Best Practices, Cardinality Management, and Anti-Patterns for Metric Design sections.

NEW QUESTION # 52

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