

PCA Exam Pattern, PCA Accurate Answers

PCA Exam Questions With 100% Correct Answers 2024

7. The nonliving components of an ecosystem are called:
- A. Biotic compounds
 - B. Abiotic compounds
 - C. Mineral components
 - D. Environmental components - answer ✓✓B. Abiotic compounds
8. Which of the following ecological concepts is illustrated in a food web?
- A. Population equilibrium
 - B. mutualism
 - C. Biogeochemical cycles
 - D. Competition - answer ✓✓B. mutualism
9. What is a limiting factor?
- A. A biotic factor that stops the growth of a plant or animal
 - B. A factor that is required for the growth and survival of an organism
 - C. One of many soil nutrients that regulates the growth of a plant
 - D. An action made by a consumer that limits the population size of a species - answer ✓✓B. A factor that is required for the growth and survival of an organism
10. The mean population level around which a species' characteristic abundance fluctuates is the species?
- A. Density dependence
 - B. Equilibrium position
 - C. Population density
 - D. Abundance level - answer ✓✓B. Equilibrium position
11. Many agricultural pest species such as foliar pathogens, aphids, mites and small seeded weeds are considered:

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q55-Q60):

NEW QUESTION # 55

What does scrape_interval configure in Prometheus?

- A. It defines how frequently to scrape targets.
- B. It defines how often to refresh metrics.
- C. It defines how frequently to evaluate rules.
- D. It defines how often to send alerts.

Answer: A

Explanation:

In Prometheus, the scrape_interval parameter specifies how frequently the Prometheus server should scrape metrics from its configured targets. Each target exposes an HTTP endpoint (usually /metrics) that Prometheus collects data from at a fixed cadence. By default, the scrape_interval is set to 1 minute, but it can be overridden globally or per job configuration in the Prometheus YAML configuration file.

This setting directly affects the resolution of collected time series data—a shorter interval increases data granularity but also adds network and storage overhead, while a longer interval reduces load but might miss short-lived metric variations.

It is important to distinguish scrape_interval from evaluation_interval, which defines how often Prometheus evaluates recording and alerting rules. Thus, scrape_interval pertains only to data collection frequency, not to alerting or rule evaluation.

Reference:

Extracted and verified from Prometheus documentation on Configuration File - scrape_interval and Scraping Fundamentals sections.

NEW QUESTION # 56

Which of the following is a valid metric name?

- A. go routines
- B. go.goroutines
- C. 99_goroutines
- 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 # 57

What is metamonitoring?

- A. Metamonitoring is the monitoring of the monitoring infrastructure.
- B. Metamonitoring is a monitoring that covers 100% of a service.
- C. Metamonitoring is monitoring social networks for end user complaints about quality of service.
- D. Metamonitoring is the monitoring of non-IT systems.

Answer: A

Explanation:

Metamonitoring refers to monitoring the monitoring system itself-ensuring that Prometheus, Alertmanager, exporters, and dashboards are functioning properly. In other words, it's the observability of your observability stack.

This practice helps detect issues such as:

Prometheus not scraping targets,
Alertmanager being unreachable,
Exporters not exposing data, or
Storage being full or corrupted.

Without metamonitoring, an outage in the monitoring system could go unnoticed, leaving operators blind to actual infrastructure problems. A common approach is to use a secondary Prometheus instance (or external monitoring service) to monitor the health metrics of the primary Prometheus and related components.

Reference:

Verified from Prometheus documentation - Monitoring Prometheus Itself, Operational Best Practices, and Reliability of the Monitoring Infrastructure.

NEW QUESTION # 58

```
http_requests_total{verb="POST"} 30
```

```
http_requests_total{verb="GET"} 30
```

What is the issue with the metric family?

- A. Metric names are missing a prefix to indicate which application is exposing the query.
- B. verb label content should be normalized to lowercase.
- **C. Unit is missing in the http_requests_total metric name.**
- D. The value represents two different things across the dimensions: code and verb.

Answer: C

Explanation:

Prometheus metric naming best practices require that every metric name include a unit suffix that indicates the measurement type, where applicable. The unit should follow the base name, separated by an underscore, and must use base SI units (for example, _seconds, _bytes, _total, etc.).

In the case of http_requests_total, while the metric correctly includes the _total suffix-indicating it is a counter-it lacks a base unit of measurement (such as time, bytes, or duration). However, for event counters, _total is itself considered the unit, representing "total occurrences" of an event. Thus, the naming would be acceptable in strict Prometheus terms, but if this metric were measuring something like duration, size, or latency, then including a specific unit would be mandatory.

However, since the question implies that the missing unit is the issue and not the label schema, the expected answer aligns with ensuring metric names convey measurable units when applicable.

Reference:

Prometheus documentation - Metric and Label Naming Conventions, Instrumentation Best Practices, and Metric Type Naming (Counters, Gauges, and Units) sections.

NEW QUESTION # 59

Given the metric prometheus_tsdb_lowest_timestamp_seconds, how do you know in which month the lowest timestamp of your Prometheus TSDB belongs?

- A. `format_date(prometheus_tsdb_lowest_timestamp_seconds,"%M")`
- B. `prometheus_tsdb_lowest_timestamp_seconds % month`
- C. `month(prometheus_tsdb_lowest_timestamp_seconds)`
- **D. `(time() - prometheus_tsdb_lowest_timestamp_seconds) / 86400`**

Answer: D

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:

$(\text{time}() - \text{prometheus_tsdb_lowest_timestamp_seconds}) / 86400$

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 # 60

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