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7. The nonliving components of an ecosystem are called:

- A. Biotic compounds
- B. Abiotic compounds
- C. Mineral components
- D. Environmental components ✓✓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 ✓✓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

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q27-Q32):

NEW QUESTION # 27

What is the role of the Pushgateway in Prometheus?

- A. To visualize metrics in Grafana.
- B. To scrape short-lived targets directly.
- **C. To receive metrics pushed by short-lived batch jobs for later scraping by Prometheus.**
- D. To store metrics long-term for historical analysis.

Answer: C

Explanation:

The Pushgateway is a Prometheus component used to handle short-lived batch jobs that cannot be scraped directly. These jobs push their metrics to the Pushgateway, which then exposes them for Prometheus to scrape.

This ensures metrics persist beyond the job's lifetime. However, it's not designed for continuously running services, as metrics in the Pushgateway remain static until replaced.

NEW QUESTION # 28

What is the difference between client libraries and exporters?

- A. Exporters are written in Go. Client libraries are written in many languages.
- **B. Exporters run next to the services to monitor, and use client libraries internally.**
- C. Exporters expose metrics for scraping. Client libraries push metrics via Remote Write.
- D. Exporters and client libraries mean the same thing.

Answer: B

Explanation:

The fundamental difference between Prometheus client libraries and exporters lies in how and where they are used.

Client libraries are integrated directly into the application's codebase. They allow developers to instrument their own code to define and expose custom metrics. Prometheus provides official client libraries for multiple languages, including Go, Java, Python, and Ruby.

Exporters, on the other hand, are standalone processes that run alongside the applications or systems they monitor. They use client libraries internally to collect and expose metrics from software that cannot be instrumented directly (e.g., operating systems, databases, or third-party services). Examples include the Node Exporter (for system metrics) and MySQL Exporter (for database metrics).

Thus, exporters are typically used for external systems, while client libraries are used for self-instrumented applications.

Reference:

Verified from Prometheus documentation - Writing Exporters, Client Libraries Overview, and Best Practices for Exporters and Instrumentation.

NEW QUESTION # 29

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. `(time() - prometheus_tsdb_lowest_timestamp_seconds) / 86400`**
- D. `month(prometheus_tsdb_lowest_timestamp_seconds)`

Answer: C

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 # 30

How do you calculate the average request duration during the last 5 minutes from a histogram or summary called `http_request_duration_seconds`?

- A. `rate(http_request_duration_seconds_sum[5m]) / rate(http_request_duration_seconds_count[5m])`
- B. `rate(http_request_duration_seconds_total[5m]) / rate(http_request_duration_seconds_count[5m])`
- C. `rate(http_request_duration_seconds_sum[5m]) / rate(http_request_duration_seconds_average[5m])`
- D. `rate(http_request_duration_seconds_total[5m]) / rate(http_request_duration_seconds_average[5m])`

Answer: A

Explanation:

In Prometheus, histograms and summaries expose metrics with `_sum` and `_count` suffixes to represent total accumulated values and sample counts, respectively. To compute the average request duration over a given time window (for example, 5 minutes), you divide the rate of increase of `_sum` by the rate of increase of `_count`:

$$\text{Average duration} = \frac{\text{rate}(\text{http_request_duration_seconds_sum}[5m])}{\text{rate}(\text{http_request_duration_seconds_count}[5m])}$$

Here,

`http_request_duration_seconds_sum` represents the total accumulated request time, and

`http_request_duration_seconds_count` represents the number of requests observed.

By dividing these rates, you obtain the average request duration per request over the specified time range.

Reference:

Extracted and verified from Prometheus documentation - Querying Histograms and Summaries, PromQL Rate Function, and Metric Naming Conventions sections.

NEW QUESTION # 31

What does `scrape_interval` configure in Prometheus?

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

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.

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