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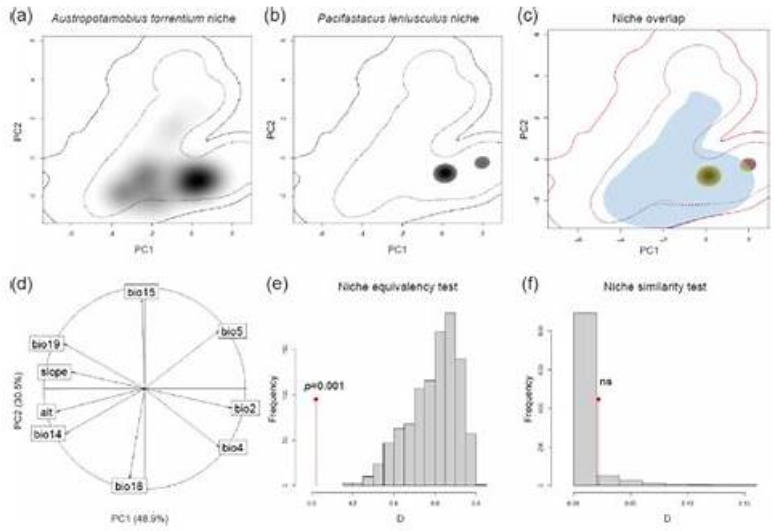

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q27-Q32):

NEW QUESTION # 27
Which PromQL expression computes how many requests in total are currently in-flight for the following time series data?
apiserver_current_inflight_requests{instance="1"} 5
apiserver_current_inflight_requests{instance="2"} 7

- A. min(apiserver_current_inflight_requests)
- B. max(apiserver_current_inflight_requests)
- C. sum_over_time(apiserver_current_inflight_requests[10m])
- D. sum(apiserver_current_inflight_requests)

Answer: D

Explanation:
In Prometheus, when you have multiple time series that represent the same type of measurement across different instances, the sum() aggregation operator is used to compute their total value.
Here, each instance (1 and 2) exposes the metric apiserver_current_inflight_requests, indicating the number of active API requests currently being processed.
To find the total number of in-flight requests across all instances, the correct expression is:
sum(apiserver_current_inflight_requests)
This returns 5 + 7 = 12.
min() would return the lowest value (5).
max() would return the highest value (7).
sum_over_time() calculates the cumulative sum over a range vector, not the current value, so it's incorrect here.
Reference:
Verified from Prometheus documentation - Aggregation Operators and Summing Across Dimensions sections.

NEW QUESTION # 28
If the vector selector foo[5m] contains 1 1 NaN, what would max_over_time(foo[5m]) return?

- A. NaN
- B. It errors out.
- C. No answer.
- D. 0

Answer: D

Explanation:
In PromQL, range vector functions like max_over_time() compute an aggregate value (in this case, the maximum) over all samples within a specified time range. The function ignores NaN (Not-a-Number) values when computing the result.
Given the range vector foo[5m] containing samples [1, 1, NaN], the maximum value among the valid numeric samples is 1.
Therefore, max_over_time(foo[5m]) returns 1.
Prometheus functions handle missing or invalid data points gracefully-ignoring NaN ensures stable calculations even when intermittent collection issues or resets occur. The function only errors if the selector is syntactically invalid or if no numeric samples exist at all.
Reference:
Verified from Prometheus documentation - PromQL Range Vector Functions, Aggregation Over Time Functions, and Handling NaN Values in PromQL sections.

NEW QUESTION # 29
Which function would you use to calculate the 95th percentile latency from histogram data?

- A. quantile_over_time(0.95, http_request_duration_seconds[5m])
- B. topk(0.95, http_request_duration_seconds)
- C. percentile(http_request_duration_seconds, 0.95)
- D. histogram_quantile(0.95, sum(rate(http_request_duration_seconds_bucket[5m])) by (le))

Answer: D

Explanation:
To calculate a percentile (e.g., 95th percentile) from histogram data in Prometheus, the correct function is histogram_quantile(). It estimates quantiles based on cumulative bucket counts.
Example:
histogram_quantile(0.95, sum(rate(http_request_duration_seconds_bucket[5m])) by (le)) This computes the 95th percentile request duration across all observed instances over the last 5 minutes.

NEW QUESTION # 30
What is an example of a single-target exporter?

- A. Node Exporter
- B. Redis Exporter

- C. SNMP Exporter
- D. Blackbox Exporter

Answer: B

Explanation:
A single-target exporter in Prometheus is designed to expose metrics for a specific service instance rather than multiple dynamic endpoints. The Redis Exporter is a prime example - it connects to one Redis server instance and exports its metrics (like memory usage, keyspace hits, or command statistics) to Prometheus.
By contrast, exporters like the SNMP Exporter and Blackbox Exporter can probe multiple targets dynamically, making them multi-target exporters. The Node Exporter, while often deployed per host, is considered a host-level exporter, not a true single-target one in configuration behavior.
The Redis Exporter is instrumented specifically for a single Redis endpoint per configuration, aligning it with Prometheus's single-target exporter definition. This design simplifies monitoring and avoids dynamic reconfiguration.
Reference:
Verified from Prometheus documentation and official exporter guidelines - Writing Exporters, Exporter Types, and Redis Exporter Overview sections.

NEW QUESTION # 31
What is the difference between client libraries and exporters?

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

Answer: D

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 # 32
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