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## PCA PRACTICE EXAM QUESTIONS AND ANSWERS 2024

PCA - answer Patient controlled analgesia

-reusable pump that administers drug via IV route when patient presses button

PCEA - answer Patient controlled epidural analgesia

-drug administered via catheter into epidural space around spinal cord

-binds to nerve roots

-blocks sensory impulses

PCA therapy uses - answer -post op

-trauma

-terminally ill

-chronic disease pain

-labor/delivery

Candidates for PCA - answer -mentally alert

-Able to understand and comply with instructions

Contraindications for PCA - answer -Hx of respiratory conditions

-Hx of drug abuse

-Psychiatric disorder

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## Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• Prometheus Fundamentals: This domain evaluates the knowledge of DevOps Engineers and emphasizes the core architecture and components of Prometheus. It includes topics such as configuration and scraping techniques, limitations of the Prometheus system, data models and labels, and the exposition format used for data collection. The section ensures a solid grasp of how Prometheus functions as a monitoring and alerting toolkit within distributed environments.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• Alerting and Dashboarding: This section of the exam assesses the competencies of Cloud Operations Engineers and focuses on monitoring visualization and alert management. It covers dashboarding basics, alerting rules configuration, and the use of Alertmanager to handle notifications. Candidates also learn the core principles of when, what, and why to trigger alerts, ensuring they can create reliable monitoring dashboards and proactive alerting systems to maintain system stability.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• Instrumentation and Exporters: This domain evaluates the abilities of Software Engineers and addresses the methods for integrating Prometheus into applications. It includes the use of client libraries, the process of instrumenting code, and the proper structuring and naming of metrics. The section also introduces exporters that allow Prometheus to collect metrics from various systems, ensuring efficient and standardized monitoring implementation.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• Observability Concepts: This section of the exam measures the skills of Site Reliability Engineers and covers the essential principles of observability used in modern systems. It focuses on understanding metrics, logs, and tracing mechanisms such as spans, as well as the difference between push and pull data collection methods. Candidates also learn about service discovery processes and the fundamentals of defining and maintaining SLOs, SLAs, and SLIs to monitor performance and reliability.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• PromQL: This section of the exam measures the skills of Monitoring Specialists and focuses on Prometheus Query Language (PromQL) concepts. It covers data selection, calculating rates and derivatives, and performing aggregations across time and dimensions. Candidates also study the use of binary operators, histograms, and timestamp metrics to analyze monitoring data effectively, ensuring accurate interpretation of system performance and trends.</li> </ul>

## Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q49-Q54):

### NEW QUESTION # 49

What is a difference between a counter and a gauge?

- A. Counters have no labels while gauges can have many labels.
- B. Counters change value on each scrape and gauges remain static.
- C. Counters and gauges are different names for the same thing.
- **D. Counters are only incremented, while gauges can go up and down.**

**Answer: D**

Explanation:

The key difference between a counter and a gauge in Prometheus lies in how their values change over time. A counter is a cumulative metric that only increases-it resets to zero only when the process restarts. Counters are typically used for metrics like total requests served, bytes processed, or errors encountered. You can derive rates of change from counters using functions like `rate()` or `increase()` in PromQL.

A gauge, on the other hand, represents a metric that can go up and down. It measures values that fluctuate, such as CPU usage, memory consumption, temperature, or active session counts. Gauges provide a snapshot of current state rather than a cumulative

total.

This distinction ensures proper interpretation of time-series trends and prevents misrepresentation of one-time or fluctuating values as cumulative metrics.

Reference:

Extracted and verified from Prometheus official documentation - Metric Types section explaining Counters and Gauges definitions and usage examples.

#### NEW QUESTION # 50

Which Alertmanager feature allows you to temporarily stop notifications for a specific alert?

- A. Grouping
- B. Inhibition
- C. Silence
- D. Deduplication

**Answer: C**

Explanation:

The Silence feature in Alertmanager allows operators to mute specific alerts for a defined period. Each silence includes a matcher (labels), a creator, a comment, and an expiration time.

Silencing is useful during maintenance windows or known outages to prevent alert noise. Unlike inhibition, silences are manual and explicit.

#### NEW QUESTION # 51

How many metric types does Prometheus text format support?

- A. 0
- B. 1
- C. 2
- D. 3

**Answer: D**

Explanation:

Prometheus defines four core metric types in its official exposition format, which are: Counter, Gauge, Histogram, and Summary. These types represent the fundamental building blocks for expressing quantitative measurements of system performance, behavior, and state.

A Counter is a cumulative metric that only increases (e.g., number of requests served).

A Gauge represents a value that can go up and down, such as memory usage or temperature.

A Histogram samples observations (e.g., request durations) and counts them in configurable buckets, providing both counts and sum of observed values.

A Summary is similar to a histogram but provides quantile estimation over a sliding time window along with count and sum metrics.

These four types are the only officially supported metric types in the Prometheus text exposition format as defined by the Prometheus data model. Any additional metrics or custom naming conventions are built on top of these core types but do not constitute new types.

Reference:

Extracted and verified from Prometheus official documentation sections on Metric Types and Exposition Formats in the Prometheus study materials.

#### NEW QUESTION # 52

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

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

**Answer: D**

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 # 53

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

apiserver\_request\_total{job="kubernetes-apiserver", instance="192.168.1.220:6443", cloud="aws"} 1

apiserver\_request\_total{job="kubernetes-apiserver", instance="192.168.1.121:6443", cloud="gcloud"} 5

- A. `rate(sum by (cloud)(apiserver_request_total{job="kubernetes-apiserver"}))[5m]`
- B. `sum by (cloud) (apiserver_request_total{job="kubernetes-apiserver"})`
- C. `sum by (cloud)(rate(apiserver_request_total{job="kubernetes-apiserver"})[5m])`
- D. `rate(apiserver_request_total{job="kubernetes-apiserver"}[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-apiserver"}[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 # 54

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