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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">• 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.
Topic 2	<ul style="list-style-type: none">• 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.
Topic 3	<ul style="list-style-type: none">• 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.
Topic 4	<ul style="list-style-type: none">• 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.
Topic 5	<ul style="list-style-type: none">• 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.

Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48

How can you select all the up metrics whose instance label matches the regex `fe-.*`?

- A. `up{instance=regexp(fe-.*)}`
- B. `up{instance=~"fe-.*"}`
- C. `up{instance~"fe-.*"}`
- D. `up{instance="fe-.*"}`

Answer: B

Explanation:

PromQL supports regular expression matching for label values using the `~` operator. To select all time series whose label values match a given regex pattern, you use the syntax `{label_name=~"regex"}`.

In this case, to select all up metrics where the instance label begins with `fe-`, the correct query is:

```
up{instance=~"fe-.*"}
```

Explanation of operators:

`=` → exact match.

`!=` → not equal.

`~` → regex match.

`!~` → regex not match.

Option D uses the correct `=` syntax. Options A and B use invalid PromQL syntax, and option C is almost correct but includes a

misplaced extra quote style (~"), which would cause a parsing error.

Reference:

Verified from Prometheus documentation - Expression Language Data Selectors, Label Matchers, and Regular Expression Matching Rules.

NEW QUESTION # 49

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

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

Answer: A

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 # 50

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

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

Answer: A

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 # 51

Which of the following is a valid metric name?

- A. `go routines`
- B. `99_goroutines`
- C. `go_goroutines`
- D. `go.goroutines`

Answer: C

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 # 52

Which exporter would be best suited for basic HTTP probing?

- A. Blackbox exporter
- B. Apache exporter
- C. SNMP exporter
- D. JMX exporter

Answer: A

Explanation:

The Blackbox Exporter is the Prometheus component designed specifically for probing endpoints over various network protocols, including HTTP, HTTPS, TCP, ICMP, and DNS. It acts as a generic probe service, allowing Prometheus to test endpoints' availability, latency, and correctness without requiring instrumentation in the target application itself.

For basic HTTP probing, the Blackbox Exporter performs HTTP GET or POST requests to defined URLs and exposes metrics like probe success, latency, response code, and SSL certificate validity. This makes it ideal for uptime and availability monitoring. By contrast, the JMX exporter is used for collecting metrics from Java applications, the Apache exporter for Apache HTTP Server metrics, and the SNMP exporter for network devices. Thus, only the Blackbox Exporter serves the purpose of HTTP probing.

Reference:

Verified from Prometheus documentation - Blackbox Exporter Overview and Exporter Usage Guidelines.

NEW QUESTION # 53

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