

PCA Practice Online & PCA Valid Test Guide

PCA practice questions with Correct Answers

A pca is making an open bed for a patient. Which of the following should the tech take?

1. fanfold the top linens at the top of the bed
2. keep the top sheet untucked from the mattress
3. fold the top sheet across the length of the mattress
4. pull the top linens up to cover the full mattress - ANSWER ✓✓ - fanfold the top

A pca is preparing to preform documentation in a patients elc. Which of the following is an example of appropriate documentation by the tech?

1. the tech on the previous shift reports...
2. the patient has a large dark brown bowel movement
3. the patient will receive and enema
4. the patient is upset because the nurse from the previous shift.... - ANSWER ✓✓ - the patient has a large dark brown bowel movement

A pca is caring for four clients. The tech should ID the which of the fowling patients is at greatest risk for a fall?

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Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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 5	<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.

Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36

When can you use the Grafana Heatmap panel?

- A. You can use it to graph an info metric.
- B. You can use it to graph a gauge metric.
- C. You can use it to graph a counter metric.
- **D. You can use it to graph a histogram metric.**

Answer: D

Explanation:

The Grafana Heatmap panel is best suited for visualizing histogram metrics collected from Prometheus. Histograms provide bucketed data distributions (e.g., request durations, response sizes), and the heatmap effectively displays these as a two-dimensional density chart over time.

In Prometheus, histogram metrics are exposed as multiple time series with the `_bucket` suffix and the label `le` (less than or equal).

Grafana interprets these buckets to create visual bands showing how frequently different value ranges occurred. Counters, gauges, and info metrics do not have bucketed distributions, so a heatmap would not produce meaningful output for them. Reference: Verified from Grafana documentation - Heatmap Panel Overview, Visualizing Prometheus Histograms, and Prometheus documentation - Understanding Histogram Buckets.

NEW QUESTION # 37

Which of the following signal belongs to symptom-based alerting?

- A. Database memory utilization
- B. API latency
- C. Disk space
- D. CPU usage

Answer: B

Explanation:

Symptom-based alerting focuses on user-visible problems or service-impacting symptoms rather than low-level resource metrics. In Prometheus and Site Reliability Engineering (SRE) practices, alerts should signal conditions that affect users' experience - such as high latency, request failures, or service unavailability - instead of merely reflecting internal resource states.

Among the options, API latency directly represents the performance perceived by end users. If API response times increase, it immediately impacts user satisfaction and indicates a possible service degradation.

In contrast, metrics like disk space, CPU usage, or database memory utilization are cause-based metrics - they may correlate with problems but do not always translate into observable user impact.

Prometheus alerting best practices recommend alerting on symptoms (via RED metrics - Rate, Errors, Duration) while using cause-based metrics for deeper investigation and diagnosis, not for immediate paging alerts.

Reference:

Verified from Prometheus documentation - Alerting Best Practices, Symptom vs. Cause Alerting, and RED/USE Monitoring Principles sections.

NEW QUESTION # 38

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

Answer: C

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 # 39

With the following metrics over the last 5 minutes:

```
up{instance="localhost"} 1 1 1 1 1
```

```
up{instance="server1"} 1 0 0 0
```

What does the following query return:

```
min_over_time(up[5m])
```

- A. {instance="server1"} 0
- B. {instance="localhost"} 1 {instance="server1"} 0

Answer: B

Explanation:

The `min_over_time()` function in PromQL returns the minimum sample value observed within the specified time range for each time series.

In the given data:

For `up{instance="localhost"}`, all samples are 1. The minimum value over 5 minutes is therefore 1.

For `up{instance="server1"}`, the sequence is 1 0 0 0 0. The minimum observed value is 0.

Thus, the query `min_over_time(up[5m])` returns two series - one per instance:

```
{instance="localhost"} 1
```

```
{instance="server1"} 0
```

This query is commonly used to check uptime consistency. If the minimum value over the time window is 0, it indicates at least one scrape failure (target down).

Reference:

Verified from Prometheus documentation - PromQL Range Vector Functions, `min_over_time()` definition, and up Metric Semantics sections.

NEW QUESTION # 40

Which of the following is a valid metric name?

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

Answer: B

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 # 41

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