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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 Prometheus Certified Associate Exam Sample Questions

(Q34-Q39):

NEW QUESTION # 34

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: D

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 # 35

Which metric type uses the `delta()` function?

- A. Counter
- B. Info
- C. Histogram
- D. Gauge

Answer: D

Explanation:

The `delta()` function in PromQL calculates the difference between the first and last samples in a range vector over a specified time window. This function is primarily used with gauge metrics, as they can move both up and down, and `delta()` captures that net change directly.

For example, if a gauge metric like `node_memory_Active_bytes` changes from 1000 to 1200 within a 5-minute window, `delta(node_memory_Active_bytes[5m])` returns 200.

Unlike `rate()` or `increase()`, which are designed for monotonically increasing counters, `delta()` is ideal for metrics representing resource levels, capacities, or instantaneous measurements that fluctuate over time.

Reference:

Verified from Prometheus documentation - PromQL Range Functions - `delta()`, Gauge Semantics and Usage, and Comparing `delta()` and `rate()` sections.

NEW QUESTION # 36

Which field in alerting rules files indicates the time an alert needs to go from pending to firing state?

- A. duration
- B. interval
- C. timeout
- D. for

Answer: D

Explanation:

In Prometheus alerting rules, the `for` field specifies how long a condition must remain true continuously before the alert transitions from the pending to the firing state. This feature prevents transient spikes or brief metric fluctuations from triggering false alerts.

Example:

```
alert: HighRequestLatency
```

```
expr: http_request_duration_seconds_avg > 1
```

```
for: 5m
```

```
labels:
```

```
severity: warning
```

```
annotations:
```

```
description: "Request latency is above 1s for more than 5 minutes."
```

In this configuration, Prometheus evaluates the expression every rule evaluation cycle. The alert only fires if the condition (`http_request_duration_seconds_avg > 1`) remains true for 5 consecutive minutes. If it returns to normal before that duration, the alert resets and never fires.

This mechanism adds stability and noise reduction to alerting systems by ensuring only sustained issues generate notifications.

Reference:

Verified from Prometheus documentation - Alerting Rules Configuration Syntax, Pending vs. Firing States, and Best Practices for Alert Timing and Thresholds sections.

NEW QUESTION # 37

Which of the following is a valid metric name?

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

Answer: D

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 # 38

When can you use the Grafana Heatmap panel?

- A. You can use it to graph a histogram 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 an info metric.

Answer: A

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 # 39

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