

Questions PCA Pdf & PCA Book Free

PCA, Patient Controlled Analgesia Questions and Answers

What is a PCA? - ANS-Patient Controlled Analgesia
IV device that allows patients to take active role in pain control.

What does PCA do for the patient? - ANS-Allows patient control over when to receive medication.

Why do we use PCA? - ANS-*better pain control
*improved patient satisfaction

What does pressing the PCA button do? - ANS-Delivers a predetermined dose of narcotic analgesic medication.

Who can use PCA? - ANS-*patient who is mentally, emotionally, and physically able to assess his/ her pain needs
*children 7 years and older
*use cautiously with patients with history of drug/ETOH abuse, respiratory distress, and elderly.

How does a PCA pump work? - ANS-*MD order- med, amount, delivery mode
*nurse programs machine- double verify
*patient and family education
*patient presses button to receive med
*lockout

PCA Delivery Modes - ANS-Continuous- rarely see this alone on PCA
Bolus- only receive med when button pushed
Both- often small amount continuous with button bolus in addition
All modes require NS infusing to push med through lines

PCA Medications - ANS-Morphine Sulfate
Fentanyl
Dilaudid

Always have Narcan available

Morphine Sulfate - ANS-1 mg/ml in 30cc NS = 30mg

Fentanyl - ANS-10 mcg/ml in 30cc NS = 300 mcg

Dilaudid - ANS-0.2 mg/ml in 30cc NS = 6mg

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q60-Q65):

NEW QUESTION # 60

Given the metric `prometheus_tsdb_lowest_timestamp_seconds`, how do you know in which month the lowest timestamp of your Prometheus TSDB belongs?

- A. `(time() - prometheus_tsdb_lowest_timestamp_seconds) / 86400`
- B. `format_date(prometheus_tsdb_lowest_timestamp_seconds,"%M")`
- C. `month(prometheus_tsdb_lowest_timestamp_seconds)`
- D. `prometheus_tsdb_lowest_timestamp_seconds % month`

Answer: A

Explanation:

The metric `prometheus_tsdb_lowest_timestamp_seconds` provides the oldest stored sample timestamp in Prometheus's local TSDB (in Unix epoch seconds). To determine the age or approximate date of this timestamp, you compare it with the current time (using `time()` in PromQL).

The expression:

`(time() - prometheus_tsdb_lowest_timestamp_seconds) / 86400`

converts the difference between the current time and the oldest timestamp from seconds into days (1 day = 86,400 seconds). This gives the number of days since the earliest sample was stored, allowing you to infer the time range and approximate month manually. The other options are invalid because PromQL does not support direct date formatting (`format_date`) or `month()` extraction functions.

Reference:

Extracted and verified from Prometheus documentation - TSDB Internal Metrics, Time Functions in PromQL, and Using `time()` for Relative Calculations.

NEW QUESTION # 61

What popular open-source project is commonly used to visualize Prometheus data?

- A. Kibana
- B. Grafana
- C. Loki
- D. Thanos

Answer: B

Explanation:

The most widely used open-source visualization and dashboarding platform for Prometheus data is Grafana. Grafana provides native integration with Prometheus as a data source, allowing users to create real-time, interactive dashboards using PromQL queries.

Grafana supports advanced visualization panels (graphs, heatmaps, gauges, tables, etc.) and enables users to design custom dashboards to monitor infrastructure, application performance, and service-level objectives (SLOs). It also provides alerting capabilities that can complement or extend Prometheus's own alerting system.

While Kibana is part of the Elastic Stack and focuses on log analytics, Thanos extends Prometheus for long-term storage and high availability, and Loki is a log aggregation system. None of these tools serve as the primary dashboarding solution for Prometheus metrics the way Grafana does.

Grafana's seamless Prometheus integration and templating support make it the de facto standard visualization tool in the Prometheus ecosystem.

Reference:

Verified from Prometheus documentation - Visualizing Data with Grafana, and Grafana documentation - Prometheus Data Source Integration and Dashboard Creation Guide.

NEW QUESTION # 62

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

- A. `duration`
- B. `timeout`

- C. interval
- **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 # 63

What is a rule group?

- A. It is a set of rules that are grouped by labels.
- B. It is a set of rules, split into groups by type.
- **C. It is a set of rules that are executed sequentially.**
- D. It is the set (the group) of all the rules in a file.

Answer: C

Explanation:

In Prometheus, a rule group is a logical collection of recording and alerting rules that are evaluated sequentially at a specified interval.

Rule groups are defined in YAML files under the `groups:` key, with each group containing a name, an interval, and a list of rules.

For example:

groups:

- name: example

interval: 1m

rules:

- record: job:http_inprogress_requests:sum

expr: sum(http_inprogress_requests) by (job)

All rules in a group share the same evaluation schedule and are executed one after another. This ensures deterministic order, especially when one rule depends on another's result.

Reference:

Verified from Prometheus documentation - Rule Configuration, Rule Groups and Evaluation Order, and Recording & Alerting Rules Guide.

NEW QUESTION # 64

What is the role of the Pushgateway in Prometheus?

- A. To visualize metrics in Grafana.
- **B. To receive metrics pushed by short-lived batch jobs for later scraping by Prometheus.**
- C. To store metrics long-term for historical analysis.
- D. To scrape short-lived targets directly.

Answer: B

This ensures metrics persist beyond the job's lifetime. However, it's not designed for continuously running services, as metrics in the Pushgateway remain static until replaced.

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