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PCA PUMP EXAM QUESTIONS AND ANSWERS 2024

Learning Objectives - answer -Discuss patient and family teaching necessary when PCA is prescribed

-Differentiate the types of patients who are potential candidates to use patient controlled analgesia (PCA)

-Initiate appropriate actions if the patient experiences side effects or complications from PCA therapy

-Demonstrate the ability to recall the PCA "history" and programmed prescription using the programming functions of the PCA infusion pump

-Discuss the parameters for patient assessment and documentation using the PCA flow sheet, included calculating PCA medication dosages

-Identify the classification of nursing personnel who may set up and program a PCA machine

What is a PCA? - answer Patient Controlled Analgesia (PCA)

-IV device that allows pt. to take active role in pain control

Pt. has control over when to receive Med

Why do we use PCA

-better pain control

-improved patient satisfaction

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q30-Q35):

NEW QUESTION # 30

Which of the following PromQL queries is invalid?

- A. max without (instance, job) up
- B. max without (instance) up
- C. max by (instance) up
- D. max on (instance) (up)

Answer: D

Explanation:

The max operator in PromQL is an aggregation operator, not a binary vector matching operator. Therefore, the valid syntax for aggregation uses by() or without(), not on().

- max by (instance) up → Valid; aggregates maximum values per instance.
- max without (instance) up and max without (instance, job) up → Valid; aggregates over all labels except those listed.
- max on (instance) (up) → Invalid; the keyword on() is only valid in binary operations (e.g., +, -, and, or, unless), where two vectors are being matched on specific labels.

Hence, max on (instance) (up) is a syntax error in PromQL because on() cannot be used directly with aggregation operators.

Reference:

Verified from Prometheus documentation - Aggregation Operators, Vector Matching - on()/ignoring(), and PromQL Language Syntax Reference sections.

NEW QUESTION # 31

How can you send metrics from your Prometheus setup to a remote system, e.g., for long-term storage?

- A. With "remote write"
- B. With S3 Buckets
- C. With "federation"
- D. With "scraping"

Answer: A

Explanation:

Prometheus provides a feature called Remote Write to transmit scraped and processed metrics to an external system for long-term storage, aggregation, or advanced analytics. When configured, Prometheus continuously pushes time series data to the remote endpoint defined in the remote_write section of the configuration file.

This mechanism is often used to integrate with long-term data storage backends such as Cortex, Thanos, Mimir, or InfluxDB, enabling durable retention and global query capabilities beyond Prometheus's local time series database limits.

In contrast, "scraping" refers to data collection from targets, while "federation" allows hierarchical Prometheus setups (pulling metrics from other Prometheus instances) but does not serve as long-term storage. Using "S3 Buckets" directly is also unsupported in native Prometheus configurations.

Reference:

Extracted and verified from Prometheus documentation - Remote Write/Read APIs and Long-Term Storage Integrations sections.

NEW QUESTION # 32

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

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

Answer: D

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 # 33

What Prometheus component would you use if targets are running behind a Firewall/NAT?

- A. Pull Gateway
- B. HA Proxy
- C. Pull Proxy
- **D. PushProx**

Answer: D

Explanation:

When Prometheus targets are behind firewalls or NAT and cannot be reached directly by the Prometheus server's pull mechanism, the recommended component to use is PushProx.

PushProx works by reversing the usual pull model. It consists of a PushProx Proxy (accessible by Prometheus) and PushProx Clients (running alongside the targets). The clients establish outbound connections to the proxy, which allows Prometheus to "pull" metrics indirectly. This approach bypasses network restrictions without compromising the Prometheus data model.

Unlike the Pushgateway (which is used for short-lived batch jobs, not network-isolated targets), PushProx maintains the Prometheus "pull" semantics while accommodating environments where direct scraping is impossible.

Reference:

Verified from Prometheus documentation and official PushProx design notes - Monitoring Behind NAT/Firewall, PushProx Overview, and Architecture and Usage Scenarios sections.

NEW QUESTION # 34

What is metamonitoring?

- **A. Metamonitoring is the monitoring of the monitoring infrastructure.**
- B. Metamonitoring is monitoring social networks for end user complaints about quality of service.
- C. Metamonitoring is a monitoring that covers 100% of a service.
- D. Metamonitoring is the monitoring of non-IT systems.

Answer: A

Explanation:

Metamonitoring refers to monitoring the monitoring system itself-ensuring that Prometheus, Alertmanager, exporters, and dashboards are functioning properly. In other words, it's the observability of your observability stack.

This practice helps detect issues such as:

Prometheus not scraping targets,
Alertmanager being unreachable,
Exporters not exposing data, or
Storage being full or corrupted.

Without metamonitoring, an outage in the monitoring system could go unnoticed, leaving operators blind to actual infrastructure problems. A common approach is to use a secondary Prometheus instance (or external monitoring service) to monitor the health metrics of the primary Prometheus and related components.

Reference:

Verified from Prometheus documentation - Monitoring Prometheus Itself, Operational Best Practices, and Reliability of the Monitoring Infrastructure.

NEW QUESTION # 35

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