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PCA TEST 2024 QUESTIONS & ANSWERS VERIFIED 100% CORRECT!!

being responsible for one's actions and the actions of others.

- A) responsibility
- B) taking action
- C) accountability Answer - Accountability

a patient should be encourage by the PCA to TCDB every _____ hours postoperatively

- A) one
- B) two
- C) four Answer - two

dirty linens are placed in what color bags

- A) black
- B) green
- C) red Answer - green

urine collected from patient in the middle of urination.

- A) collection
- B) midstream
- C) urinating Answer - midstream

a low sodium diet is a restriction in _____ intake

- A) salt
- B) water
- C) food Answer - salt

abuse involving hitting, slapping, or kicking another person

- A) personal
- B) physical
- C) fight Answer - physical

sudden drop in blood pressure when patient stands from lying or sitting position

- A) orthostatic
- B) fainting
- C) stoke Answer - orthostatic

blood vessels _____ when heat application is applied to the skin

- A) expand
- B) contract

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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"> • 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 3	<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 4	<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 5	<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.

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38

What are the four golden signals of monitoring as defined by Google's SRE principles?

- A. Availability, Logging, Errors, Throughput
- **B. Traffic, Errors, Latency, Saturation**
- C. Utilization, Load, Disk, Network
- D. Requests, CPU, Memory, Latency

Answer: B

Explanation:

The Four Golden Signals-Traffic, Errors, Latency, and Saturation-are key service-level indicators defined by Google's Site Reliability Engineering (SRE) discipline.

Traffic: Demand placed on the system (e.g., requests per second).

Errors: Rate of failed requests.
Latency: Time taken to serve requests.
Saturation: How "full" the system resources are (CPU, memory, etc.).
Prometheus and its metrics-based model are ideal for capturing these signals.

NEW QUESTION # 39

What should you do with counters that have labels?

- A. Investigate if you can move their label value inside their metric name to limit the number of labels.
- **B. Instantiate them with their possible label values when creating them so they are exposed with a zero value.**
- C. Make sure every counter with labels has an extra counter, aggregated, without labels.
- D. Save their state between application runs so you can restore their last value on startup.

Answer: B

Explanation:

Prometheus counters with labels can cause missing time series in queries if some label combinations have not yet been observed. To ensure visibility and continuity, the recommended best practice is to instantiate counters with all expected label values at application startup, even if their initial value is zero.

This ensures that every possible labeled time series is exported consistently, which helps when dashboards or alerting rules expect the presence of those series. For example, if a counter like `http_requests_total{method="POST",status="200"}` has not yet received a POST request, initializing it with a zero ensures it is still exposed.

Option A is incorrect - label values should never be encoded into metric names.

Option B adds redundancy and does not solve the initialization issue.

Option D is discouraged; counters should reset naturally upon restart, reflecting Prometheus's ephemeral metric model.

Reference:

Verified from Prometheus documentation - Instrumentation Best Practices, Counters with Labels, and Avoid Missing Time Series by Initializing Metrics.

NEW QUESTION # 40

Which PromQL expression computes how many requests in total are currently in-flight for the following time series data?

`apiserver_current_inflight_requests{instance="1"} 5`

`apiserver_current_inflight_requests{instance="2"} 7`

- A. `max(apiserver_current_inflight_requests)`
- B. `min(apiserver_current_inflight_requests)`
- C. `sum_over_time(apiserver_current_inflight_requests[10m])`
- **D. `sum(apiserver_current_inflight_requests)`**

Answer: D

Explanation:

In Prometheus, when you have multiple time series that represent the same type of measurement across different instances, the `sum()` aggregation operator is used to compute their total value.

Here, each instance (1 and 2) exposes the metric `apiserver_current_inflight_requests`, indicating the number of active API requests currently being processed.

To find the total number of in-flight requests across all instances, the correct expression is:

`sum(apiserver_current_inflight_requests)`

This returns $5 + 7 = 12$.

`min()` would return the lowest value (5).

`max()` would return the highest value (7).

`sum_over_time()` calculates the cumulative sum over a range vector, not the current value, so it's incorrect here.

Reference:

Verified from Prometheus documentation - Aggregation Operators and Summing Across Dimensions sections.

NEW QUESTION # 41

How do you configure the rule evaluation interval in Prometheus?

- A. You can configure the evaluation interval in the service discovery configuration and in the command-line flags.
- B. You can configure the evaluation interval in the Prometheus TSDB configuration file and in the rule configuration file.
- C. You can configure the evaluation interval in the scraping job configuration file and in the command-line flags.
- **D. You can configure the evaluation interval in the global configuration file and in the rule configuration file.**

Answer: D

Explanation:

Prometheus evaluates alerting and recording rules at a regular cadence determined by the `evaluation_interval` setting. This can be defined globally in the main Prometheus configuration file (`prometheus.yml`) under the `global:` section or overridden for specific rule groups in the rule configuration files.

The global `evaluation_interval` specifies how frequently Prometheus should execute all configured rules, while rule-specific intervals can fine-tune evaluation frequency for individual groups. For instance:

`global:`

`evaluation_interval: 30s`

This means Prometheus evaluates rules every 30 seconds unless a rule file specifies otherwise.

This parameter is distinct from `scrape_interval`, which governs metric collection frequency from targets. It has no relation to TSDB, service discovery, or command-line flags.

Reference:

Verified from Prometheus documentation - Configuration File Reference, Rule Evaluation and Recording Rules sections.

NEW QUESTION # 42

Which of the following is an invalid `@` modifier expression?

- A. `go_goroutines @ start()`
- **B. `sum(http_requests_total{method="GET"}) @ 1609746000`**
- C. `sum(http_requests_total{method="GET"}) @ 1609746000`
- D. `go_goroutines @ end()`

Answer: B

Explanation:

The `@` modifier in PromQL allows querying data as it existed at a specific point in time rather than the evaluation time. It can be applied after a selector or an entire expression, but the syntax rules are strict.

☐ `go_goroutines @ start()` → Valid; queries value at the start of the evaluation range.

☐ `sum(http_requests_total{method="GET"}) @ 1609746000` → Valid; applies the modifier after the full expression.

☐ `go_goroutines @ end()` → Valid; queries value at the end of the evaluation range.

☐ `sum(http_requests_total{method="GET"} @ 1609746000)` → Invalid, because the `@` modifier cannot appear inside the selector braces; it must appear after the selector or aggregation expression.

This invalid placement violates PromQL's syntax grammar for subquery and modifier ordering.

Reference:

Verified from Prometheus documentation - PromQL `@` Modifier Syntax, Evaluation Modifiers, and PromQL Expression Grammar sections.

NEW QUESTION # 43

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