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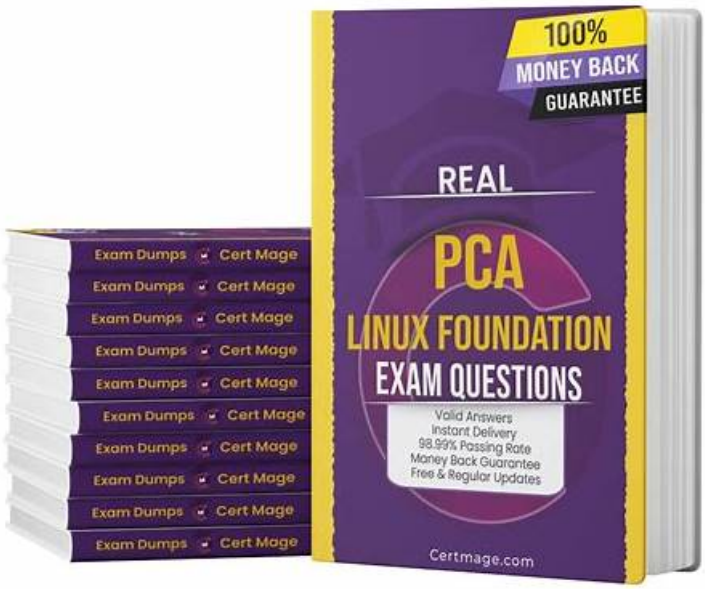

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Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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	• 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	• 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.

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47
Which of the following metrics is unsuitable for a Prometheus setup?

- A. promhttp_metric_handler_requests_total{code="500"}
- B. prometheus_engine_query_log_enabled
- C. http_response_total{handler="static/*filepath"}
- D. user_last_login_timestamp_seconds{email="john.doe@example.com"}

Answer: D

Explanation:
The metric user_last_login_timestamp_seconds{email="john.doe@example.com"} is unsuitable for Prometheus because it includes a high-cardinality label (email). Each unique email address would generate a separate time series, potentially numbering in the millions, which severely impacts Prometheus performance and memory usage.
Prometheus is optimized for low- to medium-cardinality metrics that represent system-wide behavior rather than per-user data. High-cardinality metrics cause data explosion, complicating queries and overwhelming the storage engine.
By contrast, the other metrics-prometheus_engine_query_log_enabled, promhttp_metric_handler_requests_total{code="500"}, and http_response_total{handler="static/*filepath"}-adhere to Prometheus best practices. They represent operational or service-level metrics with limited, manageable label value sets.
Reference:
Extracted and verified from Prometheus documentation - Metric and Label Naming Best Practices, Cardinality Management, and Anti-Patterns for Metric Design sections.

NEW QUESTION # 48
Which metric type uses the delta() function?

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

Answer: B

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 # 49
How would you correctly name a metric that provides metadata information about the binary?

- A. app_metadata
- B. app_build_desc
- C. app_build
- D. app_build_info

Answer: D

Explanation:
The Prometheus naming convention for metrics that expose build or version information about an application binary uses the _info suffix. The standard pattern is:
<application>_build_info
This metric typically includes constant labels such as version, revision, branch, and goversion to describe the build environment.
For example:
app_build_info{version="1.2.3", revision="abc123", goversion="go1.22"} 1 This approach follows the official Prometheus instrumentation guidelines, where metrics ending in _info convey metadata or constant characteristics about the running process.
The other options do not conform to the Prometheus best practice of suffix-based semantic naming.
Reference:
Extracted and verified from Prometheus documentation - Metric Naming Conventions, Exposing Build Information, and Standard _info Metrics sections.

NEW QUESTION # 50
What is api_http_requests_total in the following metric?
api_http_requests_total{method="POST", handler="/messages"}

- A. "api_http_requests_total" is a metric field.
- B. "api_http_requests_total" is a metric label name.
- C. "api_http_requests_total" is a metric name.
- D. "api_http_requests_total" is a metric type.

Answer: C

Explanation:
In Prometheus, the part before the curly braces {} represents the metric name. Therefore, in the metric api_http_requests_total{method="POST", handler="/messages"}, the term api_http_requests_total is the metric name. Metric names describe the specific quantity being measured - in this example, the total number of HTTP requests received by an API.
The portion within the braces defines labels, which provide additional dimensions to the metric. Here, method="POST" and handler="/messages" are labels describing request attributes. The metric name should follow Prometheus conventions: lowercase letters, numbers, and underscores only, and ending in _total for counters.
This naming scheme ensures clarity and standardization across instrumented applications. The metric type (e.g., counter, gauge) is declared separately in the exposition format, not within the metric name itself.
Reference:
Verified from Prometheus documentation - Metric and Label Naming, Data Model, and Instrumentation Best Practices sections.

NEW QUESTION # 51
What is considered the best practice when working with alerting notifications?

- A. Have as few alerts as possible by alerting only when symptoms might become externally visible.
- B. Have as many alerts as possible to catch minor problems before they become outages.
- C. Minor alerts are as important as major alerts and should be treated with equal care.
- D. Make sure to generate alerts on every metric of every component of the stack.

Answer: A

Explanation:
The Prometheus alerting philosophy emphasizes signal over noise - meaning alerts should focus only on actionable and user-impacting issues. The best practice is to alert on symptoms that indicate potential or actual user-visible problems, not on every internal metric anomaly.
This approach reduces alert fatigue, avoids desensitizing operators, and ensures high-priority alerts get the attention they deserve.
For example, alerting on "service unavailable" or "latency exceeding SLO" is more effective than alerting on "CPU above 80%" or "disk usage increasing," which may not directly affect users.
Option B correctly reflects this principle: keep alerts meaningful, few, and symptom-based. The other options contradict core best practices by promoting excessive or equal-weight alerting, which can overwhelm operations teams.
Reference:
Verified from Prometheus documentation - Alerting Best Practices, Alertmanager Design Philosophy, and Prometheus Monitoring and Reliability Engineering Principles.

NEW QUESTION # 52
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