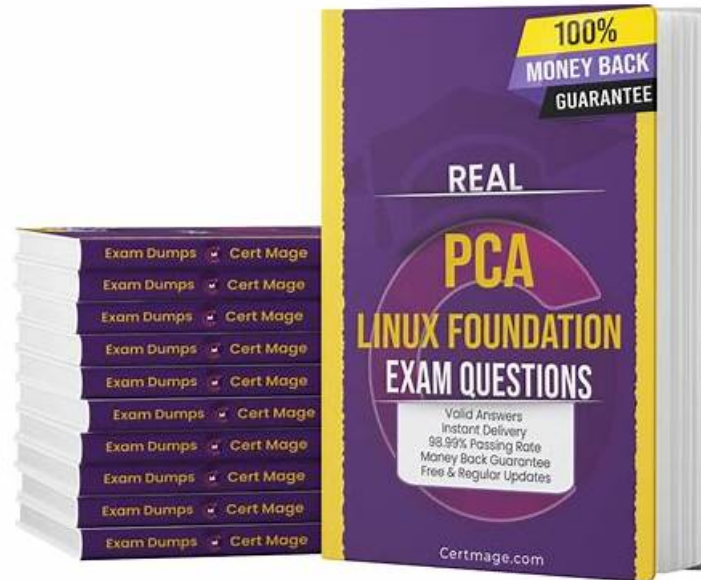


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Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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 5	<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.

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q15-Q20):

NEW QUESTION # 15

Which Prometheus component handles service discovery?

- **A. Prometheus Server**
- B. Alertmanager
- C. Node Exporter
- D. Pushgateway

Answer: A

Explanation:

The Prometheus Server is responsible for service discovery, which identifies the list of targets to scrape. It integrates with multiple service discovery mechanisms such as Kubernetes, Consul, EC2, and static configurations.

This allows Prometheus to automatically adapt to dynamic environments without manual reconfiguration.

NEW QUESTION # 16

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

Answer: A

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 # 17

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 # 18

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 # 19

Which PromQL statement returns the average free bytes of the filesystems over the last hour?

- A. sum_over_time(node_filesystem_avail_bytes[1h])
- B. avg(node_filesystem_avail_bytes[1h])

- C. `avg_over_time(node_filesystem_avail_bytes[1h])`
- D. `sum(node_filesystem_avail_bytes[1h])`

Answer: C

Explanation:

The `avg_over_time()` function calculates the average value of a time series over a specified range vector. It is used to measure how a gauge metric (like available filesystem bytes) behaves over time rather than at a single instant.

For example:

`avg_over_time(node_filesystem_avail_bytes[1h])`

This query returns the average amount of available filesystem space observed across all samples within the last hour for each time series.

By contrast:

`avg()` performs aggregation across different series at a single point, not over time.

`sum()` and `sum_over_time()` compute totals rather than averages.

Thus, only `avg_over_time()` provides the correct temporal average.

Reference:

Extracted and verified from Prometheus documentation - Range Vector Functions, `avg_over_time()` Definition, and Working with Gauge Metrics Over Time sections.

NEW QUESTION # 20

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