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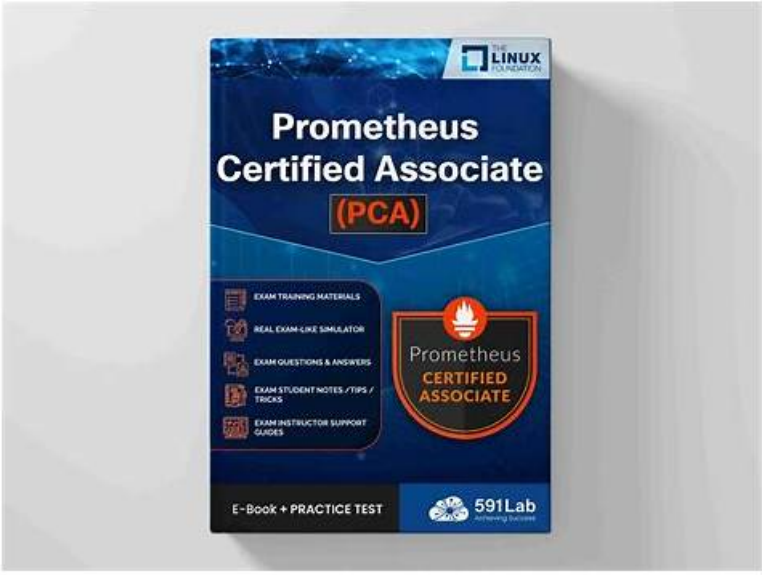

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Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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 4	• 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	• 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 (Q29-Q34):

NEW QUESTION # 29
What are the four golden signals of monitoring as defined by Google's SRE principles?

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

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 # 30
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_over_time(node_filesystem_avail_bytes[1h])
- C. sum(node_filesystem_avail_bytes[1h])
- D. avg(node_filesystem_avail_bytes[1h])

Answer: B

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 # 31
Where does Prometheus store its time series data by default?

- A. In etcd.
- B. In-memory only.
- C. In an embedded TSDB on local disk.
- D. In an external database such as InfluxDB.

Answer: C

Explanation:
By default, Prometheus stores its time series data in a local, embedded Time Series Database (TSDB) on disk. The data is organized in block files under the data/ directory inside Prometheus's storage path.
Each block typically covers two hours of data, containing chunks, index, and metadata files. Older blocks are compacted and deleted based on retention settings.

NEW QUESTION # 32
Which exporter would be best suited for basic HTTP probing?

- A. Apache exporter
- B. JMX exporter
- C. Blackbox exporter
- D. SNMP exporter

Answer: C

Explanation:
The Blackbox Exporter is the Prometheus component designed specifically for probing endpoints over various network protocols, including HTTP, HTTPS, TCP, ICMP, and DNS. It acts as a generic probe service, allowing Prometheus to test endpoints' availability, latency, and correctness without requiring instrumentation in the target application itself.
For basic HTTP probing, the Blackbox Exporter performs HTTP GET or POST requests to defined URLs and exposes metrics like probe success, latency, response code, and SSL certificate validity. This makes it ideal for uptime and availability monitoring.
By contrast, the JMX exporter is used for collecting metrics from Java applications, the Apache exporter for Apache HTTP Server metrics, and the SNMP exporter for network devices. Thus, only the Blackbox Exporter serves the purpose of HTTP probing.
Reference:
Verified from Prometheus documentation - Blackbox Exporter Overview and Exporter Usage Guidelines.

NEW QUESTION # 33
What is the role of the Pushgateway in Prometheus?

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

Answer: A

Explanation:
The Pushgateway is a Prometheus component used to handle short-lived batch jobs that cannot be scraped directly. These jobs push their metrics to the Pushgateway, which then exposes them for Prometheus to scrape.

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.

NEW QUESTION # 34
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