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Principal Components Analysis Ideas (PCA)

- Does the data set 'span' the whole of d dimensional space?
- For a matrix of m samples x n genes, create a new covariance matrix of size n x n.
- Transform some large number of variables into a smaller number of uncorrelated variables called principal components (PCs).
- developed to capture as much of the variation in data as possible

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Without self-assessment, you cannot ace the PCA test. To ensure that you appear in the final Prometheus Certified Associate Exam (PCA) examination without anxiety and mistakes, PracticeDump offers desktop Linux Foundation PCA Practice Test software and web-based PCA practice exam. These PCA practice tests are customizable, simulate the original PCA exam scenario, and track your performance.

Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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	• 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	• 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.

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q26-Q31):

NEW QUESTION # 26
What is the role of the Pushgateway in Prometheus?

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

Answer: B

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 # 27
What does scrape_interval configure in Prometheus?

- A. It defines how often to refresh metrics.
- B. It defines how frequently to scrape targets.
- C. It defines how often to send alerts.
- D. It defines how frequently to evaluate rules.

Answer: B

Explanation:
In Prometheus, the scrape_interval parameter specifies how frequently the Prometheus server should scrape metrics from its configured targets. Each target exposes an HTTP endpoint (usually /metrics) that Prometheus collects data from at a fixed cadence.
By default, the scrape_interval is set to 1 minute, but it can be overridden globally or per job configuration in the Prometheus YAML configuration file.
This setting directly affects the resolution of collected time series data-a shorter interval increases data granularity but also adds network and storage overhead, while a longer interval reduces load but might miss short-lived metric variations.
It is important to distinguish scrape_interval from evaluation_interval, which defines how often Prometheus evaluates recording and alerting rules. Thus, scrape_interval pertains only to data collection frequency, not to alerting or rule evaluation.
Reference:
Extracted and verified from Prometheus documentation on Configuration File - scrape_interval and Scraping Fundamentals sections.

NEW QUESTION # 28

How do you configure the rule evaluation interval in Prometheus?

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

Answer: B

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 # 29

What function calculates the tp-quantile from a histogram?

- A. histogram()
- B. histogram_quantile()
- C. predict_linear()
- D. avg_over_time()

Answer: B

Explanation:
In Prometheus, the histogram_quantile() function is specifically designed to compute quantiles (such as tp90, tp95, or tp99) from histogram bucket data. A histogram metric records cumulative bucket counts for observed values under specific thresholds (le label).
The function works by interpolating between buckets based on the target quantile. For example, to compute the 90th percentile latency from a histogram named http_request_duration_seconds_bucket, you would use:
histogram_quantile(0.9, sum(rate(http_request_duration_seconds_bucket[5m])) by (le)) Here, 0.9 represents the tp90 quantile, and rate() converts counter increments into per-second rates.
Other options are incorrect:
histogram() is not a valid PromQL function.
predict_linear() forecasts future values of a time series.
avg_over_time() computes a simple average over a time window, not quantiles.
Reference:
Verified from Prometheus documentation - PromQL Function: histogram_quantile(), Working with Histograms, and Quantile Calculation Details.

NEW QUESTION # 30

What does the evaluation_interval parameter in the Prometheus configuration control?

- A. How often Prometheus scrapes targets.
- B. How often Prometheus compacts the TSDB data blocks.
- C. How often Prometheus sends metrics to remote storage.
- D. How often Prometheus evaluates recording and alerting rules.

Answer: D

Explanation:
The evaluation_interval parameter defines how frequently Prometheus evaluates its recording and alerting rules. It determines the schedule at which the rule engine runs, checking whether alert conditions are met and generating new time series for recording rules. For example, setting:
global:
evaluation_interval: 30s
means Prometheus evaluates all configured rules every 30 seconds. This setting differs from scrape_interval, which controls how often Prometheus collects data from targets.
Having a proper evaluation interval ensures alerting latency is balanced with system performance.

NEW QUESTION # 31

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