적중율좋은PCA참고덤프공부문제

참고: DumpTOP에서 Google Drive로 공유하는 무료 2026 Linux Foundation PCA 시험 문제집이 있습니다: https://drive.google.com/open?id=14qP02D2k1xo6SB8mzOwmhob0PmMyMovp

우리DumpTOP 는 많은IT전문가들로 구성되었습니다. 우리의 문제와 답들은 모두 엘리트한 전문가들이 만들어낸 만큼 시험문제의 적중률은 아주 높습니다. 거이 100%의 정확도를 자랑하고 있습니다. 아마 많은 유사한 사이트들도 많습니다. 이러한 사이트에서 학습가이드와 온라인서비스도 지원되고 있습니다만 우리DumpTOP는 이미 이러한 사이트를 뛰어넘은 실력으로 업계에서는 우리만의 이미지를 지키고 있습니다. 우리는 정확한 문제와답만 제공하고 또한 그 어느 사이트보다도 빠른 업데이트로 여러분의 인증시험을 안전하게 패스하도록합니다.Linux Foundation PCA인증시험을 응시하려는 분들은 저희 문제와 답으로 안심하시고 자신 있게 응시하시면 됩니다. 우리DumpTOP 는 여러분이 100%Linux Foundation PCA인증시험을 패스할 수 있다는 것을 보장합니다.

Linux Foundation PCA 시험요강:

주제	소개
주제 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.

주제 2	• 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.
주제 3	• 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.
주제 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.
주제 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.

최신 Cloud & Containers PCA 무료샘플문제 (Q21-Q26):

질문 # 21
With the following metrics over the last 5 minutes:
up{instance="localhost"} 1 1 1 1 1
up{instance="server1"} 1 0 0 0 0
What does the following query return:
min_over_time(up[5m])

- A. {instance="localhost"} 1 {instance="server1"} 0
- B. {instance="server1"} 0

정답：A

설명：
The min_over_time() function in PromQL returns the minimum sample value observed within the specified time range for each time series.
In the given data:
For up{instance="localhost"}, all samples are 1. The minimum value over 5 minutes is therefore 1.
For up{instance="server1"}, the sequence is 1 0 0 0 0. The minimum observed value is 0.
Thus, the query min_over_time(up[5m]) returns two series - one per instance:
{instance="localhost"} 1
{instance="server1"} 0
This query is commonly used to check uptime consistency. If the minimum value over the time window is 0, it indicates at least one scrape failure (target down).

Reference:
Verified from Prometheus documentation - PromQL Range Vector Functions, min_over_time() definition, and up Metric Semantics sections.

질문 # 22
Which of the following is a valid metric name?

- A. go routines
- B. go.goroutines
- C. go_goroutines
- D. 99_goroutines

정답：C

설명：
According to Prometheus naming rules, metric names must match the regex [a-zA-Z_:][a-zA-Z0-9_:]*. This means metric names must begin with a letter, underscore, or colon, and can only contain letters, digits, and underscores thereafter.
The valid metric name among the options is go_goroutines, which follows all these rules. It starts with a letter (g), uses underscores to separate words, and contains only allowed characters.
By contrast:
go routines is invalid because it contains a space.
go.goroutines is invalid because it contains a dot (.), which is reserved for recording rule naming hierarchies, not metric identifiers.
99_goroutines is invalid because metric names cannot start with a number.
Following these conventions ensures compatibility with PromQL syntax and Prometheus' internal data model.
Reference:
Extracted from Prometheus documentation - Metric Naming Conventions and Data Model Rules sections.

질문 # 23
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. sum(node_filesystem_avail_bytes[1h])
- D. avg_over_time(node_filesystem_avail_bytes[1h])

정답：D

설명：
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.

질문 # 24
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. Save their state between application runs so you can restore their last value on startup.
- D. Make sure every counter with labels has an extra counter, aggregated, without labels.

정답：B

설명：
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.

질문 # 25
How would you name a metric that tracks HTTP request duration?

- A. http.request_latency
- B. http_request_duration_seconds
- C. request_duration_seconds
- D. http_request_duration

정답：B

설명：
According to Prometheus metric naming conventions, a metric name must clearly describe what is being measured and include a unit suffix that specifies the base unit of measurement, following SI standards. For durations, the suffix _seconds is mandatory.
Therefore, the correct and standards-compliant name for a metric tracking HTTP request duration is:
http_request_duration_seconds
This name communicates:
http_request → the subject being measured (HTTP requests),
duration → the aspect being measured (the latency or time taken),
_seconds → the unit of measurement (seconds).
This metric name typically corresponds to a histogram or summary, exposing submetrics such as _count, _sum, and _bucket. These represent the number of observations, total duration, and distribution across time buckets respectively.
Options A, B, and C fail to fully comply with Prometheus naming standards - they either omit the http_ prefix, use invalid separators (dots), or lack the required unit suffix.
Reference:
Verified from Prometheus documentation - Metric and Label Naming Conventions, Instrumentation Best Practices, and Histogram and Summary Metric Naming Patterns.

질문 # 26
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- PCA시험대비 덤프데모문제 다운 □ PCA인기자격증 덤프공부자료 ⌨ PCA시험대비 덤프 최신버전 □ 오픈 웹 사이트➠ www.itdumpskr.com □검색《 PCA 》무료 다운로드PCA최신 인증시험 기출자료
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