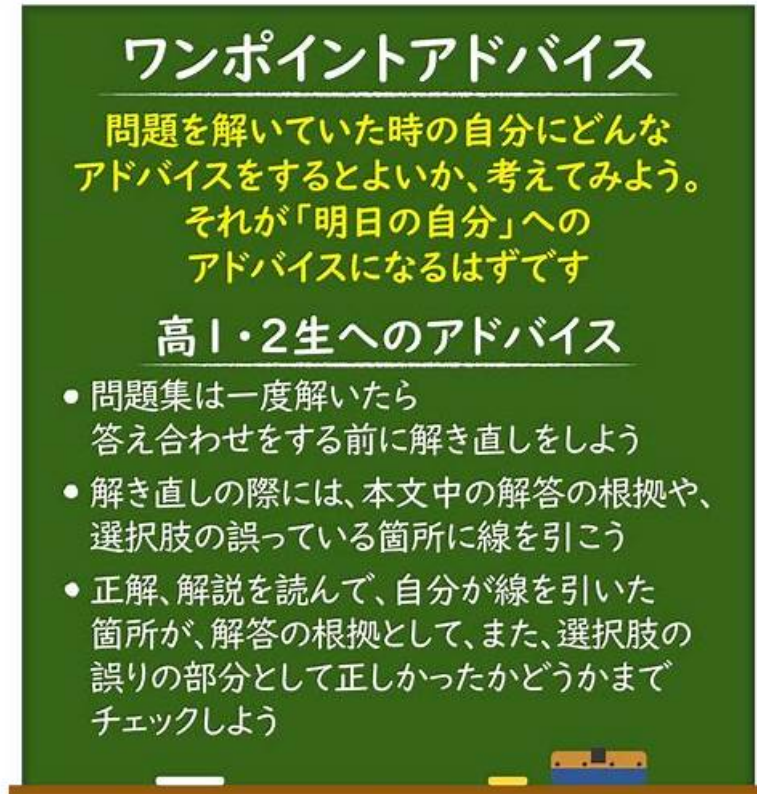


Linux Foundation PCA Exam | PCA ミシュレーション 問題 -信頼できるプランフォームPCA資格トレーニング



さらに、Pass4Test PCAダンプの一部が現在無料で提供されています：<https://drive.google.com/open?id=1ndRYCEff9BrACB2iMAKCNOTSyo1vdlaj>

PCA試験問題の継続的な刷新により、当社は大きな市場シェアを占めています。強力な研究センターを構築し、PCAトレーニングガイドでより良い仕事をするために強力なチームを所有しています。これまで、PCA学習教材に関する多くの特許を取得しています。一方で、当社Linux Foundationは改修の恩恵を受けています。お客様は当社の製品を選択する可能性が高くなります。一方、私たちが投資したお金は有意義なものであり、PCA試験の新しい学習スタイルを刷新するのに役立ちます。

Linux Foundation PCA 認定試験の出題範囲：

トピック	出題範囲
トピック 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.
トピック 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.

トピック 3	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.
トピック 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.
トピック 5	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.

>> PCA ミシュレーション 問題 <<

PCA試験の準備方法 | 実用的なPCAミシュレーション問題試験 | 100% 合格率のPrometheus Certified Associate Exam資格トレーニング

君は一回だけでLinux FoundationのPCA認定試験に合格したいなら、或いは自分のIT技能を増強したいなら、Pass4Testはあなたにとって最高な選択です。長年の努力を通じて、Pass4TestのLinux FoundationのPCA認定試験の合格率が100パーセントになっていました。うちのLinux FoundationのPCA試験問題集は完全な無制限のダンプが含まれているから、使ったら気楽に試験に合格することができます。

Linux Foundation Prometheus Certified Associate Exam 認定 PCA 試験問題 (Q27-Q32):

質問 # 27

Which PromQL expression computes the rate of API Server requests across the different cloud providers from the following metrics?

apiserver_request_total{job="kube-apiserver", instance="192.168.1.220:6443", cloud="aws"} 1
apiserver_request_total{job="kube-apiserver", instance="192.168.1.121:6443", cloud="gcloud"} 5

- A. `sum by (cloud)(rate(apiserver_request_total{job="kube-apiserver"}[5m]))`
- B. `sum by (cloud) (apiserver_request_total{job="kube-apiserver"})`
- C. `rate(apiserver_request_total{job="kube-apiserver"}[5m]) by (cloud)`
- D. `rate(sum by (cloud)(apiserver_request_total{job="kube-apiserver"})[5m])`

正解: A

解説:

The `rate()` function computes the per-second increase of a counter metric over a specified range, while `sum by (label)` aggregates those rates across dimensions - in this case, the `cloud` label.

The correct query is:

`sum by (cloud)(rate(apiserver_request_total{job="kube-apiserver"}[5m]))` This expression:

Calculates the rate of increase in API requests per second for each instance.

Groups and sums those rates by cloud, giving the total request rate per cloud provider.

Option A incorrectly places `by (cloud)` after `rate()`, which is not valid syntax.

Option B returns raw counter totals (not rates).

Option D incorrectly applies `rate()` after aggregation, which distorts the calculation since `rate()` must operate on individual time series before aggregation.

Reference:

Verified from Prometheus documentation - `rate()` Function, Aggregation Operators, and Querying Counters Across Labels sections.

質問 # 28

Which of the following is an invalid @ modifier expression?

- A. `sum(http_requests_total{method="GET"}) @ 1609746000`
- B. `go_goroutines @ start()`
- C. `go_goroutines @ end()`
- D. `sum(http_requests_total{method="GET"}) @ 1609746000`

正解: A

解説:

The @ modifier in PromQL allows querying data as it existed at a specific point in time rather than the evaluation time. It can be applied after a selector or an entire expression, but the syntax rules are strict.

- ☐ `go_goroutines @ start()` → Valid; queries value at the start of the evaluation range.
- ☐ `sum(http_requests_total{method="GET"}) @ 1609746000` → Valid; applies the modifier after the full expression.
- ☐ `go_goroutines @ end()` → Valid; queries value at the end of the evaluation range.
- ☐ `sum(http_requests_total{method="GET"}) @ 1609746000` → Invalid, because the @ modifier cannot appear inside the selector braces; it must appear after the selector or aggregation expression.

This invalid placement violates PromQL's syntax grammar for subquery and modifier ordering.

Reference:

Verified from Prometheus documentation - PromQL @ Modifier Syntax, Evaluation Modifiers, and PromQL Expression Grammar sections.

質問 # 29

Which PromQL statement returns the sum of all values of the metric `node_memory_MemAvailable_bytes` from 10 minutes ago?

- A. `sum(node_memory_MemAvailable_bytes offset 10m)`
- B. `offset sum(node_memory_MemAvailable_bytes[10m])`
- C. `sum(node_memory_MemAvailable_bytes) offset 10m`
- D. `sum(node_memory_MemAvailable_bytes) setoff 10m`

正解: A

解説:

In PromQL, the offset modifier allows you to query metrics as they were at a past time relative to the current evaluation. To retrieve the value of `node_memory_MemAvailable_bytes` as it was 10 minutes ago, you place the offset keyword inside the aggregation function's argument, not after it.

The correct query is:

```
sum(node_memory_MemAvailable_bytes offset 10m)
```

This computes the total available memory across all instances, based on data from exactly 10 minutes in the past.

Placing offset after the aggregation (as in option B) is syntactically invalid because modifiers apply to instant and range vector selectors, not to complete expressions.

Reference:

Verified from Prometheus documentation - PromQL Evaluation Modifiers: offset, Aggregation Operators, and Temporal Query Examples.

質問 # 30

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

正解: B

解説:

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.

質問 # 31

Given the metric `prometheus_tsdb_lowest_timestamp_seconds`, how do you know in which month the lowest timestamp of your Prometheus TSDB belongs?

- A. `(time() - prometheus_tsdb_lowest_timestamp_seconds) / 86400`
- B. `month(prometheus_tsdb_lowest_timestamp_seconds)`
- C. `format_date(prometheus_tsdb_lowest_timestamp_seconds, "%M")`
- D. `prometheus_tsdb_lowest_timestamp_seconds % month`

正解: A

解説:

The metric `prometheus_tsdb_lowest_timestamp_seconds` provides the oldest stored sample timestamp in Prometheus's local TSDB (in Unix epoch seconds). To determine the age or approximate date of this timestamp, you compare it with the current time (using `time()` in PromQL).

The expression:

```
(time() - prometheus_tsdb_lowest_timestamp_seconds) / 86400
```

converts the difference between the current time and the oldest timestamp from seconds into days (1 day = 86,400 seconds). This gives the number of days since the earliest sample was stored, allowing you to infer the time range and approximate month manually. The other options are invalid because PromQL does not support direct date formatting (`format_date`) or `month()` extraction functions.

Reference:

Extracted and verified from Prometheus documentation - TSDB Internal Metrics, Time Functions in PromQL, and Using `time()` for Relative Calculations.

質問 # 32

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PCA資格トレーニング: <https://www.pass4test.jp/PCA.html>

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