

PCA시험패스가능한인증덤프자료 - PCA시험대비인증 공부자료



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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	• 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.
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	• 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.

>> PCA시험패스 가능한 인증덤프자료 <<

Linux Foundation PCA시험대비 인증공부자료 - PCA퍼펙트 인증공부자료

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최신 Cloud & Containers PCA 무료샘플문제 (Q24-Q29):

질문 # 24

Which PromQL expression computes how many requests in total are currently in-flight for the following time series data?

apiserver_current_inflight_requests{instance="1"} 5

apiserver_current_inflight_requests{instance="2"} 7

- A. `sum_over_time(apiserver_current_inflight_requests[10m])`
- B. `max(apiserver_current_inflight_requests)`
- C. `min(apiserver_current_inflight_requests)`
- D. `sum(apiserver_current_inflight_requests)`

정답: D

설명:

In Prometheus, when you have multiple time series that represent the same type of measurement across different instances, the `sum()` aggregation operator is used to compute their total value.

Here, each instance (1 and 2) exposes the metric `apiserver_current_inflight_requests`, indicating the number of active API requests currently being processed.

To find the total number of in-flight requests across all instances, the correct expression is:

`sum(apiserver_current_inflight_requests)`

This returns $5 + 7 = 12$.

`min()` would return the lowest value (5).

max() would return the highest value (7).

sum_over_time() calculates the cumulative sum over a range vector, not the current value, so it's incorrect here.

Reference:

Verified from Prometheus documentation - Aggregation Operators and Summing Across Dimensions sections.

질문 # 25

What does the rate() function in PromQL return?

- A. The average of all values in a vector.
- B. The total increase of a counter over a range.
- C. The per-second rate of increase of a counter metric.
- D. The number of samples in a range vector.

정답: C

설명:

The rate() function calculates the average per-second rate of increase of a counter over the specified range. It smooths out short-term fluctuations and adjusts for counter resets.

Example:

```
rate(http_requests_total[5m])
```

returns the number of requests per second averaged over the last five minutes. This function is frequently used in dashboards and alerting expressions.

질문 # 26

What is the maximum number of Alertmanagers that can be added to a Prometheus instance?

- A. More than 3
- B. 0
- C. 1
- D. 2

정답: A

설명:

Prometheus supports integration with multiple Alertmanager instances for redundancy and high availability. The alerting section of the Prometheus configuration file (prometheus.yml) allows specifying a list of Alertmanager targets, enabling Prometheus to send alerts to several Alertmanager nodes simultaneously.

There is no hard-coded limit on the number of Alertmanagers that can be added. The typical best practice is to run a minimum of three Alertmanagers in a clustered setup to achieve fault tolerance and ensure reliable alert delivery, but Prometheus can be configured with more than three if desired.

Each Alertmanager node in the cluster communicates state information (active, silenced, inhibited alerts) with its peers to maintain consistency.

Reference:

Verified from Prometheus documentation - Alertmanager Integration, High Availability Setup, and Prometheus Configuration - alerting Section.

질문 # 27

How do you configure the rule evaluation interval in Prometheus?

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

정답: C

설명:

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.

질문 # 28

What is metamonitoring?

- A. Metamonitoring is the monitoring of non-IT systems.
- **B. Metamonitoring is the monitoring of the monitoring infrastructure.**
- C. Metamonitoring is a monitoring that covers 100% of a service.
- D. Metamonitoring is monitoring social networks for end user complaints about quality of service.

정답: B

설명:

Metamonitoring refers to monitoring the monitoring system itself-ensuring that Prometheus, Alertmanager, exporters, and dashboards are functioning properly. In other words, it's the observability of your observability stack.

This practice helps detect issues such as:

Prometheus not scraping targets,
Alertmanager being unreachable,
Exporters not exposing data, or
Storage being full or corrupted.

Without metamonitoring, an outage in the monitoring system could go unnoticed, leaving operators blind to actual infrastructure problems. A common approach is to use a secondary Prometheus instance (or external monitoring service) to monitor the health metrics of the primary Prometheus and related components.

Reference:

Verified from Prometheus documentation - Monitoring Prometheus Itself, Operational Best Practices, and Reliability of the Monitoring Infrastructure.

질문 # 29

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