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Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 3	<ul style="list-style-type: none">• 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 4	<ul style="list-style-type: none">• 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 5	<ul style="list-style-type: none"> • 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 (Q59-Q64):

NEW QUESTION # 59

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

Answer: B

Explanation:

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.

NEW QUESTION # 60

How can you send metrics from your Prometheus setup to a remote system, e.g., for long-term storage?

- A. With "remote write"
- B. With "federation"
- C. With "scraping"
- D. With S3 Buckets

Answer: A

Explanation:

Prometheus provides a feature called Remote Write to transmit scraped and processed metrics to an external system for long-term storage, aggregation, or advanced analytics. When configured, Prometheus continuously pushes time series data to the remote endpoint defined in the `remote_write` section of the configuration file.

This mechanism is often used to integrate with long-term data storage backends such as Cortex, Thanos, Mimir, or InfluxDB, enabling durable retention and global query capabilities beyond Prometheus's local time series database limits.

In contrast, "scraping" refers to data collection from targets, while "federation" allows hierarchical Prometheus setups (pulling metrics from other Prometheus instances) but does not serve as long-term storage. Using "S3 Buckets" directly is also unsupported in native Prometheus configurations.

Reference:

Extracted and verified from Prometheus documentation - Remote Write/Read APIs and Long-Term Storage Integrations sections.

NEW QUESTION # 61

Which function would you use to calculate the 95th percentile latency from histogram data?

- A. `percentile(http_request_duration_seconds, 0.95)`
- B. `topk(0.95, http_request_duration_seconds)`
- C. `quantile_over_time(0.95, http_request_duration_seconds[5m])`
- D. `histogram_quantile(0.95, sum(rate(http_request_duration_seconds_bucket[5m])) by (le))`

Answer: D

Explanation:

To calculate a percentile (e.g., 95th percentile) from histogram data in Prometheus, the correct function is `histogram_quantile()`. It estimates quantiles based on cumulative bucket counts.

Example:

`histogram_quantile(0.95, sum(rate(http_request_duration_seconds_bucket[5m])) by (le))` This computes the 95th percentile request duration across all observed instances over the last 5 minutes.

NEW QUESTION # 62

Which exporter would be best suited for basic HTTP probing?

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

Answer: D

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 # 63

What is the role of the Pushgateway in Prometheus?

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

Answer: C

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 # 64

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