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## Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

## Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q10-Q15):

### NEW QUESTION # 10

Which exporter would be best suited for basic HTTP probing?

- A. SNMP exporter
- B. JMX exporter
- C. Apache 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 # 11

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 S3 Buckets
- C. With "federation"
- D. With "scraping"

#### 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 # 12

What is considered the best practice when working with alerting notifications?

- A. Minor alerts are as important as major alerts and should be treated with equal care.
- B. Make sure to generate alerts on every metric of every component of the stack.
- C. **Have as few alerts as possible by alerting only when symptoms might become externally visible.**
- D. Have as many alerts as possible to catch minor problems before they become outages.

**Answer: C**

Explanation:

The Prometheus alerting philosophy emphasizes signal over noise - meaning alerts should focus only on actionable and user-impacting issues. The best practice is to alert on symptoms that indicate potential or actual user-visible problems, not on every internal metric anomaly.

This approach reduces alert fatigue, avoids desensitizing operators, and ensures high-priority alerts get the attention they deserve. For example, alerting on "service unavailable" or "latency exceeding SLO" is more effective than alerting on "CPU above 80%" or "disk usage increasing," which may not directly affect users.

Option B correctly reflects this principle: keep alerts meaningful, few, and symptom-based. The other options contradict core best practices by promoting excessive or equal-weight alerting, which can overwhelm operations teams.

Reference:

Verified from Prometheus documentation - Alerting Best Practices, Alertmanager Design Philosophy, and Prometheus Monitoring and Reliability Engineering Principles.

## NEW QUESTION # 13

How many metric types does Prometheus text format support?

- A. 0
- B. 1
- C. **2**
- D. 3

**Answer: C**

Explanation:

Prometheus defines four core metric types in its official exposition format, which are: Counter, Gauge, Histogram, and Summary. These types represent the fundamental building blocks for expressing quantitative measurements of system performance, behavior, and state.

A Counter is a cumulative metric that only increases (e.g., number of requests served).

A Gauge represents a value that can go up and down, such as memory usage or temperature.

A Histogram samples observations (e.g., request durations) and counts them in configurable buckets, providing both counts and sum of observed values.

A Summary is similar to a histogram but provides quantile estimation over a sliding time window along with count and sum metrics. These four types are the only officially supported metric types in the Prometheus text exposition format as defined by the Prometheus data model. Any additional metrics or custom naming conventions are built on top of these core types but do not constitute new types.

Reference:

Extracted and verified from Prometheus official documentation sections on Metric Types and Exposition Formats in the Prometheus study materials.

## NEW QUESTION # 14

What does the evaluation\_interval parameter in the Prometheus configuration control?

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

**Answer: B**

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 # 15

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