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PCA
Linux Foundation Prometheus Certified Associate
Syllabus
#1 Online Linux Foundation Certification Practice Exam

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Are you ready to take your career to the next level with the Prometheus Certified Associate Exam (PCA)? Look no further than ExamPrepAway for all of your Prometheus Certified Associate Exam (PCA) exam needs. Our comprehensive and cost-effective solution includes regularly updated Linux Foundation PCA Exam Questions, available in a convenient PDF format that can be downloaded on any device, including PC, laptop, mac, tablet, and smartphone.

Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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 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.
Topic 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.

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Quiz 2026 PCA: Fantastic Reliable Prometheus Certified Associate Exam Exam Guide

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q20-Q25):

NEW QUESTION # 20
How can you send metrics from your Prometheus setup to a remote system, e.g., for long-term storage?

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

Answer: C

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 # 21
What Prometheus component would you use if targets are running behind a Firewall/NAT?

- A. HA Proxy
- B. Pull Proxy
- C. PushProx
- D. Pull Gateway

Answer: C

Explanation:
When Prometheus targets are behind firewalls or NAT and cannot be reached directly by the Prometheus server's pull mechanism, the recommended component to use is PushProx.
PushProx works by reversing the usual pull model. It consists of a PushProx Proxy (accessible by Prometheus) and PushProx Clients (running alongside the targets). The clients establish outbound connections to the proxy, which allows Prometheus to "pull" metrics indirectly. This approach bypasses network restrictions without compromising the Prometheus data model.
Unlike the Pushgateway (which is used for short-lived batch jobs, not network-isolated targets), PushProx maintains the Prometheus "pull" semantics while accommodating environments where direct scraping is impossible.
Reference:
Verified from Prometheus documentation and official PushProx design notes - Monitoring Behind NAT/Firewall, PushProx Overview, and Architecture and Usage Scenarios sections.

NEW QUESTION # 22
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 scrapes targets.
- D. How often Prometheus compacts the TSDB data blocks.

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 # 23
Which Prometheus component handles service discovery?

- A. Prometheus Server
- B. Pushgateway
- C. Node Exporter
- D. Alertmanager

Answer: A

Explanation:
The Prometheus Server is responsible for service discovery, which identifies the list of targets to scrape. It integrates with multiple service discovery mechanisms such as Kubernetes, Consul, EC2, and static configurations.
This allows Prometheus to automatically adapt to dynamic environments without manual reconfiguration.

NEW QUESTION # 24
If the vector selector foo[5m] contains 1 1 NaN, what would max_over_time(foo[5m]) return?

- A. No answer.
- B. It errors out.
- C. NaN
- D. 0

Answer: D

Explanation:

In PromQL, range vector functions like max_over_time() compute an aggregate value (in this case, the maximum) over all samples within a specified time range. The function ignores NaN (Not-a-Number) values when computing the result.
Given the range vector foo[5m] containing samples [1, 1, NaN], the maximum value among the valid numeric samples is 1.
Therefore, max_over_time(foo[5m]) returns 1.
Prometheus functions handle missing or invalid data points gracefully-ignoring NaN ensures stable calculations even when intermittent collection issues or resets occur. The function only errors if the selector is syntactically invalid or if no numeric samples exist at all.
Reference:
Verified from Prometheus documentation - PromQL Range Vector Functions, Aggregation Over Time Functions, and Handling NaN Values in PromQL sections.

NEW QUESTION # 25

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