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Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 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.
Topic 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.
Topic 3	• 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 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	• 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.

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Keeping in mind all these benefits, we ensure you can pass the Prometheus Certified Associate Exam PCA exam on your maiden attempt with the help of our exceptional Linux Foundation PCA dumps material. Our dedicated and committed team takes feedback from over 90,000 experts worldwide in the Linux Foundation PCA Dumps field to update our product.

Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q29-Q34):

NEW QUESTION # 29
Which Alertmanager feature allows you to temporarily stop notifications for a specific alert?

- A. Deduplication
- B. Grouping
- C. Silence
- D. Inhibition

Answer: C

Explanation:
The Silence feature in Alertmanager allows operators to mute specific alerts for a defined period. Each silence includes a matcher (labels), a creator, a comment, and an expiration time.
Silencing is useful during maintenance windows or known outages to prevent alert noise. Unlike inhibition, silences are manual and explicit.

NEW QUESTION # 30
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. rate(sum by (cloud)(apiserver_request_total{job="kube-apiserver"})[5m])
- C. rate(apiserver_request_total{job="kube-apiserver"}[5m]) by (cloud)
- D. sum by (cloud) (apiserver_request_total{job="kube-apiserver"})

Answer: A

Explanation:
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.

NEW QUESTION # 31
What should you do with counters that have labels?

- A. Save their state between application runs so you can restore their last value on startup.
- B. Instantiate them with their possible label values when creating them so they are exposed with a zero value.
- C. Make sure every counter with labels has an extra counter, aggregated, without labels.
- D. Investigate if you can move their label value inside their metric name to limit the number of labels.

Answer: B

Explanation:
Prometheus counters with labels can cause missing time series in queries if some label combinations have not yet been observed. To ensure visibility and continuity, the recommended best practice is to instantiate counters with all expected label values at application startup, even if their initial value is zero.
This ensures that every possible labeled time series is exported consistently, which helps when dashboards or alerting rules expect the presence of those series. For example, if a counter like http_requests_total{method="POST",status="200"} has not yet received a POST request, initializing it with a zero ensures it is still exposed.
Option A is incorrect - label values should never be encoded into metric names.
Option B adds redundancy and does not solve the initialization issue.
Option D is discouraged; counters should reset naturally upon restart, reflecting Prometheus's ephemeral metric model.
Reference:
Verified from Prometheus documentation - Instrumentation Best Practices, Counters with Labels, and Avoid Missing Time Series by Initializing Metrics.

NEW QUESTION # 32
Which of the following is a valid metric name?

- A. 99_goroutines
- B. go.goroutines
- C. go_goroutines
- D. go routines

Answer: C

Explanation:
According to Prometheus naming rules, metric names must match the regex [a-zA-Z_:][a-zA-Z0-9_:]*. This means metric names must begin with a letter, underscore, or colon, and can only contain letters, digits, and underscores thereafter.
The valid metric name among the options is go_goroutines, which follows all these rules. It starts with a letter (g), uses underscores to separate words, and contains only allowed characters.
By contrast:
go routines is invalid because it contains a space.
go.goroutines is invalid because it contains a dot (.), which is reserved for recording rule naming hierarchies, not metric identifiers.
99_goroutines is invalid because metric names cannot start with a number.
Following these conventions ensures compatibility with PromQL syntax and Prometheus' internal data model.
Reference:
Extracted from Prometheus documentation - Metric Naming Conventions and Data Model Rules sections.

NEW QUESTION # 33
How can you use Prometheus Node Exporter?

- A. You can use it to probe endpoints over HTTP, HTTPS.
- B. You can use it to collect metrics for hardware and OS metrics.
- C. You can use it to collect resource metrics from the application HTTP server.
- D. You can use it to instrument applications with metrics.

Answer: B

Explanation:
The Prometheus Node Exporter is a core system-level exporter that exposes hardware and operating system metrics from *nix-based hosts. It collects metrics such as CPU usage, memory, disk I/O, filesystem space, network statistics, and load averages.
It runs as a lightweight daemon on each host and exposes metrics via an HTTP endpoint (default: :9100/metrics), which Prometheus scrapes periodically.
Key clarification:
It does not instrument applications (A).
It does not collect metrics directly from application HTTP endpoints (B).
It is unrelated to HTTP probing tasks - those are handled by the Blackbox Exporter (D).
Thus, the correct use of the Node Exporter is to collect and expose hardware and OS-level metrics for Prometheus monitoring.
Reference:
Extracted and verified from Prometheus documentation - Node Exporter Overview, Host-Level Monitoring, and Exporter Usage Best Practices sections.

NEW QUESTION # 34
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