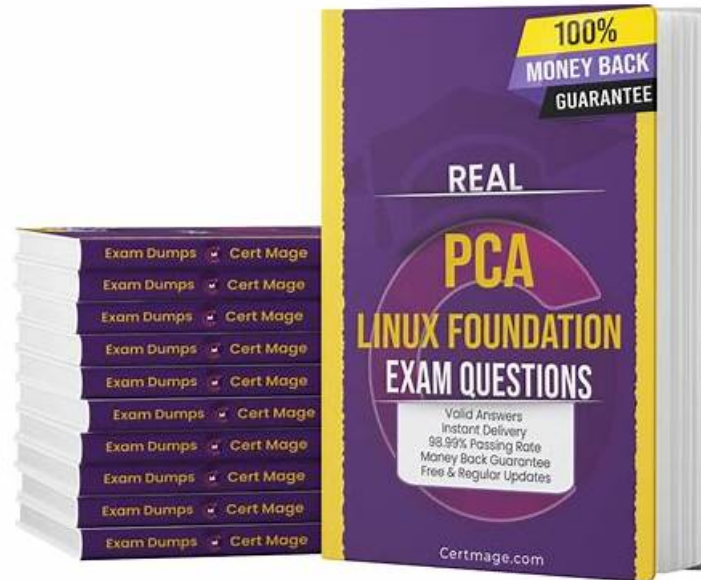


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Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
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"> • 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 5	<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.

>> PCA Reliable Exam Question <<

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36

What does the `evaluation_interval` parameter in the Prometheus configuration control?

- A. How often Prometheus scrapes targets.
- **B. How often Prometheus evaluates recording and alerting rules.**
- C. How often Prometheus sends metrics to remote storage.
- 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 # 37

Given the following Histogram metric data, how many requests took less than or equal to 0.1 seconds?

```
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="+Inf"} 3
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="0.05"} 0
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="0.1"} 1
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="1"} 3
apiserver_request_duration_seconds_count{job="kube-apiserver"} 3
apiserver_request_duration_seconds_sum{job="kube-apiserver"} 0.554003785
```

- A. 0.554003785

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

Answer: D

Explanation:

In Prometheus, histogram metrics use cumulative buckets to record the count of observations that fall within specific duration thresholds. Each bucket has a label `le` ("less than or equal to"), representing the upper bound of that bucket.

In the given metric, the bucket labeled `le="0.1"` has a value of 1, meaning exactly one request took less than or equal to 0.1 seconds.

Buckets are cumulative, so:

`le="0.05"` → 0 requests ≤ 0.05 seconds

`le="0.1"` → 1 request ≤ 0.1 seconds

`le="1"` → 3 requests ≤ 1 second

`le="+Inf"` → all 3 requests total

The `_sum` and `_count` values represent total duration and request count respectively, but the number of requests below a given threshold is read directly from the bucket's `le` value.

Reference:

Verified from Prometheus documentation - Understanding Histograms and Summaries, Bucket Semantics, and Histogram Query Examples sections.

NEW QUESTION # 38

Which Alertmanager feature prevents duplicate notifications from being sent?

- A. Silencing
- **B. Deduplication**
- C. Inhibition
- D. Grouping

Answer: B

Explanation:

Deduplication in Alertmanager ensures that identical alerts from multiple Prometheus servers or rule evaluations do not trigger duplicate notifications.

Alertmanager compares alerts based on their labels and fingerprints; if an alert with identical labels already exists, it merges or refreshes the existing one instead of creating a new notification.

This mechanism is essential in high-availability setups where multiple Prometheus instances monitor the same targets.

NEW QUESTION # 39

What is a difference between a counter and a gauge?

- A. Counters have no labels while gauges can have many labels.
- B. Counters and gauges are different names for the same thing.
- **C. Counters are only incremented, while gauges can go up and down.**
- D. Counters change value on each scrape and gauges remain static.

Answer: C

Explanation:

The key difference between a counter and a gauge in Prometheus lies in how their values change over time. A counter is a cumulative metric that only increases—it resets to zero only when the process restarts. Counters are typically used for metrics like total requests served, bytes processed, or errors encountered. You can derive rates of change from counters using functions like `rate()` or `increase()` in PromQL.

A gauge, on the other hand, represents a metric that can go up and down. It measures values that fluctuate, such as CPU usage, memory consumption, temperature, or active session counts. Gauges provide a snapshot of current state rather than a cumulative total.

This distinction ensures proper interpretation of time-series trends and prevents misrepresentation of one-time or fluctuating values as cumulative metrics.

Reference:

Extracted and verified from Prometheus official documentation - Metric Types section explaining Counters and Gauges definitions and usage examples.

NEW QUESTION # 40

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

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

Answer: C

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 # 41

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