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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	• 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 3	• 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 4	• 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	• 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.

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q44-Q49):

NEW QUESTION # 44
What is a rule group?

- A. It is a set of rules, split into groups by type.
- B. It is the set (the group) of all the rules in a file.
- C. It is a set of rules that are grouped by labels.
- D. It is a set of rules that are executed sequentially.

Answer: D

Explanation:
In Prometheus, a rule group is a logical collection of recording and alerting rules that are evaluated sequentially at a specified interval. Rule groups are defined in YAML files under the groups: key, with each group containing a name, an interval, and a list of rules.
For example:
groups:
- name: example
interval: 1m
rules:
- record: job:http_inprogress_requests:sum
expr: sum(http_inprogress_requests) by (job)
All rules in a group share the same evaluation schedule and are executed one after another. This ensures deterministic order, especially when one rule depends on another's result.
Reference:
Verified from Prometheus documentation - Rule Configuration, Rule Groups and Evaluation Order, and Recording & Alerting Rules Guide.

NEW QUESTION # 45
Which of the following is an invalid @ modifier expression?

- A. go_goroutines @ start()
- B. sum(http_requests_total{method="GET"} @ 1609746000)

- C. go_goroutines @ end()
- D. sum(http_requests_total{method="GET"}) @ 1609746000

Answer: B

Explanation:
The @ modifier in PromQL allows querying data as it existed at a specific point in time rather than the evaluation time. It can be applied after a selector or an entire expression, but the syntax rules are strict.
 go_goroutines @ start() → Valid; queries value at the start of the evaluation range.
 sum(http_requests_total{method="GET"}) @ 1609746000 → Valid; applies the modifier after the full expression.
 go_goroutines @ end() → Valid; queries value at the end of the evaluation range.
 sum(http_requests_total{method="GET"} @ 1609746000) → Invalid, because the @ modifier cannot appear inside the selector braces; it must appear after the selector or aggregation expression.
This invalid placement violates PromQL's syntax grammar for subquery and modifier ordering.
Reference:
Verified from Prometheus documentation - PromQL @ Modifier Syntax, Evaluation Modifiers, and PromQL Expression Grammar sections.

NEW QUESTION # 46
What is the minimum requirement for an application to expose Prometheus metrics?

- A. It must run on Linux.
- B. It must be able to serve text over HTTP.
- C. It must be compiled for 64-bit architectures.
- D. It must be exposed to the Internet.

Answer: B

Explanation:
Prometheus collects metrics by scraping an HTTP endpoint exposed by the target application. Therefore, the only essential requirement for an application to expose metrics to Prometheus is that it serves metrics in the Prometheus text exposition format over HTTP.
This endpoint is conventionally available at /metrics and provides metrics in plain text format (e.g., Content-Type: text/plain; version=0.0.4). The application can run on any operating system, architecture, or network - as long as Prometheus can reach its endpoint.
It does not need to be Internet-accessible (it can be internal) and is not limited to Linux or any specific bitness.
Reference:
Verified from Prometheus documentation - Exposition Formats, Instrumenting Applications, and Target Scraping Requirements sections.

NEW QUESTION # 47
What does the evaluation_interval parameter in the Prometheus configuration control?

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

Answer: A

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 # 48
Which of the following is a valid metric name?

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

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 # 49
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