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Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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">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 4	<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 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.
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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q11-Q16):

NEW QUESTION # 11

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 resource metrics from the application HTTP server.
- **C. You can use it to collect metrics for hardware and OS metrics.**
- D. You can use it to instrument applications with metrics.

Answer: C

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 # 12

What is the maximum number of Alertmanagers that can be added to a Prometheus instance?

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

Answer: B

Explanation:

Prometheus supports integration with multiple Alertmanager instances for redundancy and high availability. The alerting section of the

Prometheus configuration file (prometheus.yml) allows specifying a list of Alertmanager targets, enabling Prometheus to send alerts to several Alertmanager nodes simultaneously.

There is no hard-coded limit on the number of Alertmanagers that can be added. The typical best practice is to run a minimum of three Alertmanagers in a clustered setup to achieve fault tolerance and ensure reliable alert delivery, but Prometheus can be configured with more than three if desired.

Each Alertmanager node in the cluster communicates state information (active, silenced, inhibited alerts) with its peers to maintain consistency.

Reference:

Verified from Prometheus documentation - Alertmanager Integration, High Availability Setup, and Prometheus Configuration - alerting Section.

NEW QUESTION # 13

You'd like to monitor a short-lived batch job. What Prometheus component would you use?

- A. PullGateway
- **B. PushGateway**
- C. PushProxy
- D. PullProxy

Answer: B

Explanation:

Prometheus normally operates on a pull-based model, where it scrapes metrics from long-running targets. However, short-lived batch jobs (such as cron jobs or data processing tasks) often finish before Prometheus can scrape them. To handle this scenario, Prometheus provides the Pushgateway component.

The Pushgateway allows ephemeral jobs to push their metrics to an intermediary gateway. Prometheus then scrapes these metrics from the Pushgateway like any other target. This ensures short-lived jobs have their metrics preserved even after completion.

The Pushgateway should not be used for continuously running applications because it breaks Prometheus's usual target lifecycle semantics. Instead, it is intended solely for transient job metrics, like backups or CI/CD tasks.

Reference:

Verified from Prometheus documentation - Pushing Metrics - The Pushgateway and Use Cases for Short-Lived Jobs sections.

NEW QUESTION # 14

Which of the following is a valid metric name?

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

Answer: D

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 # 15

How would you add text from the instance label to the alert's description for the following alert?

```
alert: InstanceDown
expr: up == 0
for: 5m
labels:
severity: page
annotations:
description: "Instance INSTANCE_NAME_HERE down"
```

- A. Use \$metric.instance instead of INSTANCE_NAME_HERE
- B. Use \$value.instance instead of INSTANCE_NAME_HERE
- C. Use \$expr.instance instead of INSTANCE_NAME_HERE
- D. Use \$labels.instance instead of INSTANCE_NAME_HERE

Answer: D

Explanation:

In Prometheus alerting rules, you can dynamically reference label values in annotations and labels using template variables. Each alert has access to its labels via the variable \$labels, which allows direct insertion of label data into alert messages or descriptions.

To include the value of the instance label dynamically in the description, replace the placeholder INSTANCE_NAME_HERE with: description: "Instance {\$labels.instance} down"

or equivalently:

description: "Instance \$labels.instance down"

Both forms are valid - the first follows Go templating syntax and is the recommended format.

This ensures that when the alert fires, the instance label (e.g., a hostname or IP) is automatically included in the message, producing outputs like:

Instance 192.168.1.15:9100 down

Options B, C, and D are invalid because \$value, \$expr, and \$metric are not recognized context variables in alert templates.

Reference:

Verified from Prometheus documentation - Alerting Rules Configuration, Using Template Variables in Annotations and Labels, and Prometheus Templating Guide (Go Templates and \$labels usage) sections.

NEW QUESTION # 16

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