

Unparalleled Exam PCA Vce & Leader in Qualification Exams & Perfect PCA: Prometheus Certified Associate Exam

PCA Exam Questions With 100% Correct Answers 2024

What are important considerations when describing a population? - answer✓✓age, distribution, birth rate

A community of organisms includes - answer✓✓all the organisms that share a habitat

which of the following would be considered a density-independent factor regulation population growth - answer✓✓extreme weather

which of the following terms refers to dispersal of individuals into a population - answer✓✓immigration

an ecosystem is - answer✓✓a community of interacting organisms and their physical environment

the primary process by which energy becomes available to organisms in an ecosystem is - answer✓✓photosynthesis

the nonliving components of an ecosystem - answer✓✓abiotic compounds

which of the following ecological concepts is illustrated in a food web - answer✓✓mutualism

what is a limiting factor - answer✓✓a factor that is required for the growth and survival of an organism

the mean population level around which a species characteristic abundance fluctuates is the species - answer✓✓equilibrium position

many agricultural pest species such as foliar pathogens, aphids, mites and small seeded weeds are considered - answer✓✓r strategists

how does the amount of biodiversity in an agroecosystem compare to that of a natural, more mature ecosystem - answer✓✓lower in an agroecosystem than a natural system

the goal of pest eradication is generally - answer✓✓to eliminate newly invading pests

secondary pests are pests that - answer✓✓become prevalent after control actions that have been taken to control key pests

what is the relationship between a treatment threshold and an economic injury level - answer✓✓an economic injury level is always higher than the treatment threshold

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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"> 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	<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.
Topic 4	<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 5	<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.

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q31-Q36):

NEW QUESTION # 31

What does the rate() function in PromQL return?

- A. The per-second rate of increase of a counter metric.
- B. The total increase of a counter over a range.
- C. The average of all values in a vector.
- D. The number of samples in a range vector.

Answer: A

Explanation:

The rate() function calculates the average per-second rate of increase of a counter over the specified range. It smooths out short-term fluctuations and adjusts for counter resets.

Example:

`rate(http_requests_total[5m])`

returns the number of requests per second averaged over the last five minutes. This function is frequently used in dashboards and alerting expressions.

NEW QUESTION # 32

Which Alertmanager feature allows you to temporarily stop notifications for a specific alert?

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

Answer: D

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 # 33

What does the `increase()` function do in PromQL?

- **A. Returns the absolute increase in a counter over a specified range.**
- B. Calculates the percentage increase of a counter over time.
- C. Returns the total sum of values in a vector.
- D. Calculates the derivative of a gauge over time.

Answer: A

Explanation:

The `increase()` function computes the total increase in a counter metric over a specified range vector. It accounts for counter resets and only measures the net change in the counter's value during the time window.

Example:

`increase(http_requests_total[5m])`

This query returns how many HTTP requests occurred in the last five minutes. Unlike `rate()`, which provides a per-second average rate, `increase()` gives the absolute number of increments.

NEW QUESTION # 34

What is the name of the official *nix OS kernel metrics exporter?

- A. Prometheus_exporter
- **B. node_exporter**
- C. os_exporter
- D. metrics_exporter

Answer: B

Explanation:

The official Prometheus exporter for collecting system-level and kernel-related metrics from Linux and other UNIX-like operating systems is the Node Exporter.

The Node Exporter exposes hardware and OS metrics including CPU load, memory usage, disk I/O, network traffic, and kernel statistics. It is designed to provide host-level observability and serves data at the default endpoint `/9100/metrics` in the standard Prometheus exposition text format.

This exporter is part of the official Prometheus ecosystem and is widely deployed for infrastructure monitoring. None of the other listed options (Prometheus_exporter, metrics_exporter, or os_exporter) are official components of the Prometheus project.

Reference:

Verified from Prometheus documentation - Node Exporter Overview, System Metrics Collection, and Official Exporters List.

NEW QUESTION # 35

With the following metrics over the last 5 minutes:

`up{instance="localhost"} 1 1 1 1 1`

`up{instance="server1"} 1 0 0 0 0`

What does the following query return:

`min_over_time(up[5m])`

- A. `{instance="localhost"} 1 {instance="server1"} 0`
- B. `{instance="server1"} 0`

Answer: A

Explanation:

The `min_over_time()` function in PromQL returns the minimum sample value observed within the specified time range for each time series.

In the given data:

For `up{instance="localhost"}`, all samples are 1. The minimum value over 5 minutes is therefore 1.

For `up{instance="server1"}`, the sequence is 1 0 0 0 0. The minimum observed value is 0.

Thus, the query `min_over_time(up[5m])` returns two series - one per instance:

`{instance="localhost"} 1`

`{instance="server1"} 0`

This query is commonly used to check uptime consistency. If the minimum value over the time window is 0, it indicates at least one scrape failure (target down).

Reference:

Verified from Prometheus documentation - PromQL Range Vector Functions, `min_over_time()` definition, and up Metric Semantics sections.

NEW QUESTION # 36

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