

Updated PCA Demo, Exam PCA Tutorials

Instructions regarding PCA/ Examination Form for June/July 2024 HSBTE Exams

PCA / Exam Form Schedule for Students

Sr. No.	Activity	Last Date
1.	<ul style="list-style-type: none"> Last date to submit PCA form by the student in their institute Exam Fee under semester system :Rs. 600/- per student per semester (including Regular of 2nd, 4th & 6th Sem. & Reappears of all Semester) Exam Fee under annual system : Rs. 1200/- per student per year (including Regular & Reappears of Diploma Pharmacy Course & Reappears of 1st year under annual pattern scheme for 2018-batch / 2019-batch / 2020-batch & 2021 batch) 	Started w.e.f. 19.04.2024 Upto 5.00 PM on 24.05.2024 (Friday)
2.	Last date to submit PCA form by the student in their institute with additional late fee of Rs. 50/- per student per form	Upto 5.00 PM on 31.05.2024 (Friday)

Note 1: Students shall deposit Examination Fee to their Institute as applicable.
Note 2: Reappear students of D. Pharmacy of any batch (who must be appeared as regular in that particular year) can apply / fill the PCA Form if he / she is otherwise eligible.
Note 3: Mercy Chance is not allowed in the June/July2024 Exam. Hence, the students of 3 years Diploma course of 2018 Batch onwards (2018 batch-2023 Batch) and the students of 4 year Part time course of 2016 batch onwards can fill the PCA form.

NOTE:

- I. The institutes must ensure that for any student, PCA / Examination form should be uploaded only upto 12 subjects (regular + reappears) as per instructions already issued by the Board . (Available on the website under the link 'Common Letters / Instructions for Each Board Exam').
- II. The candidate will not be promoted to next semester if he / she fails to submit PCA / Examination Form for the respective semester exam as per instructions conveyed by the Board vide Memo No. 2552 /Exam/HSBTE dt. 21.03.2017 (also available on the website under the link 'Common Letters / Instructions for Each Board Exam') and such students shall be considered as 'Dropped Students'.
- III. The subject code will not be edited / corrected once the PCA submitted / uploaded.

Exam Fee Calculation

Example 1 : Let a student having 03 Reappears in 5th semester, 02 reappears in 4th semester and 01 reappear in 2nd semester, his/ her Exam Fees shall be calculated as below:

S.No.	Exam	Exam Fee
1.	03 Reappear of 5th Sem.	600/-
2.	02 Reappear of 4 th Sem	600/-
3.	01 Reappear of 2 nd sem.	600/-
Total Exam Fee		1800/-

BTW, DOWNLOAD part of ActualtestPDF PCA dumps from Cloud Storage: https://drive.google.com/open?id=1R9YJMO8ztucV3EwfAUVA-QmBrBig_WJY

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Linux Foundation PCA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> 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 4	<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 5	<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.

>> Updated PCA Demo <<

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Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q46-Q51):

NEW QUESTION # 46

When can you use the Grafana Heatmap panel?

- A. You can use it to graph an info metric.
- B. You can use it to graph a counter metric.
- C. You can use it to graph a histogram metric.**
- D. You can use it to graph a gauge metric.

Answer: C

Explanation:

The Grafana Heatmap panel is best suited for visualizing histogram metrics collected from Prometheus. Histograms provide bucketed data distributions (e.g., request durations, response sizes), and the heatmap effectively displays these as a two-dimensional density chart over time.

In Prometheus, histogram metrics are exposed as multiple time series with the `_bucket` suffix and the label `le` (less than or equal). Grafana interprets these buckets to create visual bands showing how frequently different value ranges occurred.

Counters, gauges, and info metrics do not have bucketed distributions, so a heatmap would not produce meaningful output for them.

Reference:

Verified from Grafana documentation - Heatmap Panel Overview, Visualizing Prometheus Histograms, and Prometheus documentation - Understanding Histogram Buckets.

NEW QUESTION # 47

Which of the following signals belongs to symptom-based alerting?

- A. CPU usage
- B. Database availability
- C. Disk space
- D. **API latency**

Answer: D

Explanation:

Symptom-based alerting focuses on detecting user-visible or service-impacting issues rather than internal resource states. Metrics like API latency, error rates, and availability directly indicate degraded user experience and are therefore the preferred triggers for alerts.

In contrast, resource-based alerts (like CPU usage or disk space) often represent underlying causes, not symptoms. Alerting on them can produce noise and distract from actual service health problems.

For example, high API latency (`http_request_duration_seconds`) clearly reflects that users are experiencing delays, which is actionable and business-relevant.

This concept aligns with the RED (Rate, Errors, Duration) and USE (Utilization, Saturation, Errors) monitoring models promoted in Prometheus and SRE best practices.

Reference:

Verified from Prometheus documentation - Alerting Best Practices, Symptom vs. Cause Alerting, and RED/USE Monitoring Principles.

NEW QUESTION # 48

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

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

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 # 49

How do you configure the rule evaluation interval in Prometheus?

- A. **You can configure the evaluation interval in the global configuration file and in the rule configuration file.**
- B. You can configure the evaluation interval in the service discovery configuration and in the command-line flags.
- C. You can configure the evaluation interval in the scraping job configuration file and in the command-line flags.
- D. You can configure the evaluation interval in the Prometheus TSDB configuration file and in the rule configuration file.

Answer: A

Explanation:

Prometheus evaluates alerting and recording rules at a regular cadence determined by the `evaluation_interval` setting. This can be defined globally in the main Prometheus configuration file (`prometheus.yml`) under the `global`: section or overridden for specific rule

groups in the rule configuration files.

The global evaluation_interval specifies how frequently Prometheus should execute all configured rules, while rule-specific intervals can fine-tune evaluation frequency for individual groups. For instance:

global:

```
evaluation_interval: 30s
```

This means Prometheus evaluates rules every 30 seconds unless a rule file specifies otherwise.

This parameter is distinct from scrape_interval, which governs metric collection frequency from targets. It has no relation to TSDB, service discovery, or command-line flags.

Reference:

Verified from Prometheus documentation - Configuration File Reference, Rule Evaluation and Recording Rules sections.

NEW QUESTION # 50

How would you correctly name a metric that provides metadata information about the binary?

- A. app_build_info
- B. app_metadata
- C. app_build_desc
- D. app_build

Answer: A

Explanation:

The Prometheus naming convention for metrics that expose build or version information about an application binary uses the _info suffix. The standard pattern is:

<application>_build_info

This metric typically includes constant labels such as version, revision, branch, and goversion to describe the build environment. For example:

app_build_info{version="1.2.3", revision="abc123", goversion="go1.22"} 1 This approach follows the official Prometheus instrumentation guidelines, where metrics ending in _info convey metadata or constant characteristics about the running process. The other options do not conform to the Prometheus best practice of suffix-based semantic naming.

Reference:

Extracted and verified from Prometheus documentation - Metric Naming Conventions, Exposing Build Information, and Standard _info Metrics sections.

NEW QUESTION # 51

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