Training: The Linux Foundation
PCA Prometheus Certified Associate

THE LINUX FOUNDATION AUTHORIZED TRAINING PARTNER

TRAINING GOALS:

The PCA demonstrates a candidate's understanding of best practices for monitoring cloud native applications and infrastructure using Prometheus.

A PCA digital credential ensures the candidate understands how to use observability data to improve application performance, troubleshoot system implementations, and feed that data into other systems.

A certified PCA will confirm foundational knowledge for building or scraping observability data in the application stack whether or not it is cloud native.

The PCA exam is intended to prepare candidates to work with the fundamentals of data monitoring, metrics, alerts, and dashboards using Prometheus.

Who Is It For

The PCA is a pre-professional certification designed for an engineer or application developer with special interests in observability and monitoring. Ideal candidates may have achieved Kubernetes certifications such as KCNA, CKA, or CKAD or have completed Prometheus-specific training or Cloud Engineer bootcamps.

Domains & Competencies

- Observability Concepts 18%
  - Metrics
  - Understand logs and events
  - Tracing and Spans
  - Push vs Pull
  - Service Discovery
  - Basics of SLOs, SLAs, and SLIs
- Prometheus Fundamentals 20%
  - System Architecture
  - Configuration and Scraping
  - Understanding Prometheus Limitations

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- Data Model and Labels
- Exposition Format

- PromQL 28%
  - Selecting Data
  - Rates and Derivatives
  - Aggregating over time
  - Aggregating over dimensions
  - Binary operators
  - Histograms
  - Timestamp Metrics

- Instrumentation and Exporters 16%
  - Client Libraries
  - Instrumentation
  - Exporters
  - Structuring and naming metrics

- Alerting & Dashboarding 18%
  - Dashboarding basics
  - Configuring Alerting rules
  - Understand and Use Alertmanager
  - Alerting basics (when, what, and why)

Exam Details & Resources

This exam is an online, proctored, multiple-choice exam.

- Linux Foundation Global Certification & Confidentiality Agreement
- Candidate Handbook
- PCA Important Instructions
- PCA Curriculum Overview
- PCA Frequently Asked Questions

Difficulty level



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CERTIFICATE:

After passing the exam, candidates will receive the RISC-V Foundational Associate (RVFA) certificate in pdf form.

ADDITIONAL INFORMATION:

Exam Includes

- Online
- Certification Valid for 3 Years
- Includes 12 Month Exam Eligibility
- One Retake
- Multiple Choice Exam
- Duration of Exam 90 minutes

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