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Sign up

# PCA® training: preparing for Prometheus certification

2 days (14 hours)

## Presentation

Our preparation for Prometheus Certified Associate® (PCA) certification will give you all the keys you need to pass the exam. It will enable you to demonstrate your knowledge of cloud-native application and infrastructure monitoring issues.

Prometheus is an open-source monitoring and alerting solution for cloud-native applications. The review will cover observability concepts, Prometheus fundamentals, PromQL, instrumentation, exporters and alerts.

Our preparation course will introduce you to everything you need to know to pass the exam. You'll learn all the strategies and best practices to validate your Prometheus Certified Associate® certification. Our trainer will tailor the course to your needs, or if there are certain points that require special attention on your part.

The exam and training will run on version [2.43](#), the latest release of Prometheus.

## Objectives

- Be ready to take the PCA® exam
- Get up and running monitoring applications and native cloud infrastructures
- How to configure Prometheus

## Target audience

Network administrators.

## Prerequisites

Knowledge of Linux administration.

## MATERIALS REQUIRED

- A good Internet connection
- Linux installed

Note: Ambient IT is not the owner of Prometheus Certified Associate®, this certification belongs to The Linux Foundation®.

## Prometheus® certification training program

### Observability concepts

- Metric
- Logs and events
- Tracing and Spans
- Push vs Pull
- Service discovery
- SLOs, SLAs and SLIs

### Prometheus fundamentals

- **System architecture**
- Configuration and scraping
- Understanding limitations
- Data Models and Labels
- Exhibition format

### PromQL

- **Data selection**
- Rates and derivatives
- Time aggregation
- Dimensional aggregation
- Binary operators
- Histogram
- Timestamp metrics

### Instrumentation and exporters

- Customer libraries
- Instrumentation
- Exporters
- Structuring and naming metrics

## Alerts and Dashboard

- Dashboard basics
- Configure alert rules
- Understanding and using altermanager
- Alert bases

## STRATEGY AND METHODS FOR EXAM SUCCESS

### BLANK EXAMINATION

### EXCHANGE ON SPECIFIC POINTS

## Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical inputs from the trainer supported by examples and

brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire is used to check that skills have been correctly acquired.

## Sanction

A certificate will be issued to each trainee who completes the course.