

Updated on 28/01/2025

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# Datadog training

2 days (14 hours)

## Presentation

[Datadog](#) is infrastructure monitoring software for enterprises. This monitoring platform for cloud-based applications provides tools for monitoring servers and databases.

This Datadog training course will enable you to supervise logs and metrics by offering Application Performance Management (APM) services.

Your team can get more information on bugs, install and configure a Datadog agent. But also define different alerts and means of communication in the event of an incident.

Datadog provides log and metric monitoring, Application Performance Management (APM) and metric correlation services. What's more, Datadog adapts to both traditional and serverless infrastructures.

Following this course, you'll be able to install and configure Datadog understand its architecture. As with all our training courses, this one will introduce you to the latest [stable](#) and its new features, Datadog Version 7.

## Objectives

- Understand the concepts of application performance management (APM)
- Understanding the Datadog ecosystem
- Monitor, optimize and evolve on-premise and cloud applications

## Target audience

- System administrators
- DevOps
- Infrastructure engineers
- Application Manager
- Incident manager
- Load testers
- Developer

## Prerequisites

- Understanding of general IT and monitoring concepts
- Create a Datadog account

## Datadog training program

### Introduction to monitoring

- Definitions, objectives
- Overview of market solutions
- General operation of a monitoring solution (agents, costs, etc.)
- The three key concepts: logs, APM, metrics :
- Understanding concepts and use cases
- Ability to challenge existing systems and identify needs

### Logs

- Definition, generation and associated metadata
- Exploration of search tools (e.g. ELK)
- Use of logs for diagnostics.

### APM

- Vocabulary and instrumentation principles
- Flame graph reading, trace analysis and customization

### Metric

- Distinction between stock and custom metrics
- Using metrics for application and business monitoring

- **Other concepts: events, monitors, alerting, SLO --> Introduction to how to mobilize them when needed**
- Integrating observability into the development cycle: organizational impacts
- Theory and practice of dashboarding :
- Read dashboards and search for information in an existing solution.
- Identify the main causes of performance or service degradation
- Opening up to other related subjects (RUM, synthetic tests, automatic monitoring, etc.).

## Companies concerned

This 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 input from the trainer, supported by examples, brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

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

