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Sign up

Datadog advanced training

1 day (7 hours)

Presentation

Datadog is infrastructure monitoring software for enterprises. This monitoring platform for cloud-based applications provides tools for monitoring servers and databases.

Our Datadog Advanced training course is aimed at technical teams who want to take full advantage of the platform's capabilities, to enhance operability and application performance.

This course will take you deeper into APM: fine-tuned dependency analysis, visualization of service flows, and accelerated incident resolution thanks to intelligent correlation with logs. You'll also learn how to optimize your logs using customized pipelines, contextual enrichment and advanced filtering.

Like all our training courses, this one will introduce you to the latest stable version and its new features, Datadog Version 7.

Objectives

- Master Datadog's advanced functions
- Diagnose, optimize and automate observability at scale
- Apply best practices for monitoring modern applications

Target audience

- System administrators
- DevOps
- Infrastructure engineers
- Application Manager

- Incident manager
- Load testers
- Developer

Prerequisites

- A good knowledge of the tool or have taken our Datadog training course
- Create a Datadog account

Datadog advanced training program

Introduction

to Advanced

APM

- Detailed performance analysis by service and dependency
- Service view (flow map), advanced filters
- The most common sources of slowness
- Practical: exploring an incident via APM + correlation with logs

Enriched logs and intelligent filtering

- Custom pipelines, complex extractions (Grok, nested JSON)
- Add context: tags, environment, user
- Practical: write a pipeline that enriches and filters logs

Complex metrics

- Creation of custom metrics (application & logs)
- Time aggregation, filters, mathematical functions
- Practical: create and view metrics from logs

Supervision of distributed services

- Objective: monitor an application composed of front, back and database functions
- Distributed APM: trace a user call from browser to database
- Advanced alerts: combine several conditions, alerts on lack of data
- Dynamic dashboards: template-based creation, multi-environment filters
- LLM observability
- Practice

Dynamic dashboards at scale

- Advanced dynamic templates (multi-var, nested vars)
- Custom HTML/JS widgets + Integrated notebooks
- Automated drill-down (interaction between dashboards)
- Dashboard-as-code
- Practice

Best practices & optimization

- Organize your observability: naming, environment, tags
- Limit costs: key metrics, log filtering, targeted dashboards
- Automate configuration (API, export/import)

CI/CD

- Enriched deployment traces
- CI observability quality control (observability coverage tests)
- Practice

Conclusion & resources

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 input from the trainer, supported by examples, with 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.