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Sign up

InfluxDB training

3 days (21 hours)

Presentation

This InfluxDB training course will help you master the installation, configuration and use of InfluxDB to monitor metrics and events in real time.

You'll also learn how to use integrated visualization and analysis tools, such as Chronograf and Grafana, to gain detailed insights into your data.

Thanks to this training, your team will be able to improve time data management, optimize application performance, and set up alerts and customized dashboards for effective supervision.

InfluxDB offers a flexible, scalable solution that adapts to both traditional infrastructures and modern cloud environments, making it easy to analyze and visualize data in real time.

Following this course, you'll be able to install, configure and administer InfluxDB, as well as understand its architecture. As with all our training courses, this one will introduce you to the latest stable release, InfluxDB Version 2.

Objectives

- Understand the concepts of time series management and metrics
- Mastering the InfluxDB ecosystem
- Monitor, optimize and evolve on-premise and cloud applications

Target audience

- System administrators

- DevOps
- Infrastructure engineers
- Application Manager
- Incident managers
- Developers

Prerequisites

- Understanding of general IT and monitoring concepts
- Have an InfluxDB Cloud account

OUR INFLUXDB TRAINING PROGRAM

INTRODUCTION TO INFLUXDB

- Presentation of time databases (TSDB) and their applications
- Differences between InfluxDB and other types of databases (relational and NoSQL)
- Overview of InfluxDB architecture and main components
- Benefits of using InfluxDB for real-time monitoring and metrics

INSTALLING AND CONFIGURING INFLUXDB

- Detailed instructions for installing InfluxDB on various environments (on-premise, cloud)
- Initial configuration and optimization of performance parameters
- Securing your InfluxDB installation (HTTPS, authentication)
- Setting up buckets and retention policies

DATA MANAGEMENT

- Creation and management of databases, measurements, tags, fields and series
- Importance and management of data retention policies
- Data import and export techniques
- Using queries to extract and analyze data

ADVANCED ADMINISTRATION

- Database performance monitoring and optimization
- Index management to improve query performance
- Backup and restore strategies
- Advanced access and data security configuration

INTERFACING WITH GRAFANA

- Introducing Grafana and its integration with InfluxDB
- Configuring and customizing Grafana dashboards
- Defining and managing alerts in Grafana
- Best practices for visualizing temporal data

AUTOMATION AND USE OF API

- Presentation of the InfluxDB API and its main endpoints
- Automation of common tasks via API
- Integrating InfluxDB with other systems and tools
- Practical examples of automation scripts

SCALABILITY AND PERFORMANCE

- Techniques to ensure load-dependent scalability of InfluxDB
- Best practices for maintaining high availability and performance
- Managing large-scale environments

INFLUXDB CLOUD

- Advantages and special features of the InfluxDB cloud version
- Differences between cloud and on-premise offerings
- Tips for choosing between cloud and on-premise solutions depending on your needs

CASE STUDIES AND WORKSHOPS

- Setting up a real-time monitoring system with InfluxDB and Grafana
- Analysis of time series from IoT sensors
- Optimizing an InfluxDB instance for maximum performance
- Load simulation and incident management

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 internal security difficulties within the company (intra-company or virtual classroom) that might be encountered.

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.