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# Fluentd training: The open-source data collector

THE OFFICIAL CLOUD NATIVE LOGGING COURSE WITH FLUENTD AND FLUENT BIT INCLUDED (LFS242)  
2 days (14 hours)

## Presentation

Our Fluentd training course will teach you how to unify your multi-platform data through an open-source system using the JSON language.

Fluentd is a relevant [data collector](#) if you want to organize your log management. This useful DevOps program will greatly simplify performance monitoring of your applications or infrastructure.

During this Fluentd training course, you'll learn the fundamentals of the tool, including why to use it, installation, monitoring, troubleshooting and deployment with Kubernetes.

You'll also learn how to manage your data pipeline from start to finish, through common manipulations such as formatting, joining, querying and parsing.

As always, our training course will introduce you to the latest version of the tool, [Fluentd 1.16](#).

## Training content

- 2 days training
- Over 25 hours of video training (the Cloud Native Logging with Fluentd and Fluent Bit course: LFS242)

## Objectives

- Installing and configuring Fluentd

- Deploying Fluentd with Kubernetes
- Manage and unify cross-platform data
- Monitor logs on Fluentd

## Target audience

- Data engineers
- DevOps
- System administrators
- Developers
- Architects

## Prerequisites

- Linux command experience
- Basic knowledge of logging and monitoring
- Basic knowledge of Kubernetes

## Fluentd Training Program

### Introduction

- What is Fluentd?
- Logging solutions overview
- Why use Fluentd?
- Supported sources
- The different functions
- How does Fluentd integrate with Kubernetes?

### Configuration

- Configuration file syntax
- Routing
- Recipes
- Configuration for high availability

### Architecture

- Introducing the Fluent ecosystem
- FluentUI
- How does Fluentd unify logs with JSON?
- Pluggable architecture overview
- How does it guarantee data reliability?

### Log management

- Input logs vs. output logs
- Create plugin
- Recover logs
- Parsing files
- Deploying Fluentd on Kubernetes
  - k8s components
  - Using DaemonSet
  - Connection with Elasticsearch
  - Multi-instance deployment
  - Plugin management
- Troubleshooting

## Data handling

- Search data
- Joint
- Filtering
- Sorting
- Archiving
- Parsing and formatting
- Creating data manipulation pipelines

## Unified layer monitoring

- Analyze data
- Metrics
- Process monitoring
- Port monitoring

## 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.

## 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 is used to check correct acquisition.

skills.

## Sanction

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