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Sign up

DigitalOcean training: Master Cloud Computing technology

2 days (14 hours)

PRESENTATION

Our DigitalOcean training course will enable you to master [the](#) most popular and easy-to-use [cloud computing](#) technology on the market. With DigitalOcean, you can easily deploy and manage your applications and infrastructures without having to worry about the complexities of managing physical servers.

In this course, designed for developers and system administrators, you'll learn how to use DigitalOcean's main services, such as the creation and management of virtual servers (Droplets), data storage (Spaces) and domain management (DNS).

You'll also discover how to integrate DigitalOcean with other technologies such as Docker and Kubernetes, to create highly scalable development and production environments.

This 2-day course will introduce you to the full range of DigitalOcean features, with a particular focus on security, performance and resilience best practices.

You'll also learn how to automate your infrastructure management tasks using the API and command-line tools available.

As with all our training courses, this one will introduce you to the latest stable version of DigitalOcean (at the time of writing: [DigitalOcean v2.0](#)).

Objectives

- Understand DigitalOcean's main services
- Create and manage virtual servers (Droplets)

- Master data management with DigitalOcean Spaces
- Use integration tools with Docker and Kubernetes
- Automate infrastructure management tasks with API and command-line tools.

Target audience

- Developers
- System administrators
- DevOps engineers
- Cloud solution architects

Prerequisites

Basic knowledge of cloud computing technologies.

Our DigitalOcean training program

INTRODUCTION

- Presentation of DigitalOcean and its cloud offerings
- Advantages of using DigitalOcean for infrastructure management
- Key features
 - Virtual machines
 - Database management
 - Container management
 - Security tools
- Training overview and objectives

INFRASTRUCTURE DEPLOYMENT AND MANAGEMENT

- Environment configuration
- Virtual machine creation
- Database and container creation
- Use of monitoring and management tools
- Optimizing infrastructure performance
- Automating management tasks
- Using the command line to manage infrastructure

INFRASTRUCTURE SECURITY

- Understanding potential threats to cloud infrastructure
- Best practices for security on DigitalOcean

- Using DigitalOcean security tools
 - Firewalls
 - SSL certificates
 - Activity log monitoring
- Configuring infrastructure security for production environments
- Monitoring and detecting potential threats

APPLICATION DEPLOYMENT

- Configuring applications for deployment
- Use of containers
- Configuration
 - Development environments
 - Test
 - Production environments
- Use of tools such as Kubernetes for application deployment and management

USE FOR PROJECT DEVELOPMENT

- Use of tools such as Git and GitHub for collaboration on development projects on DigitalOcean
- Configuration of continuous integration
- Continuous delivery (CI/CD)
- Performance optimization
- Optimization of development project security

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT 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 forthcoming course, 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 training: 60% hands-on, 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.

Certification

A certificate will be awarded to each trainee who has completed the entire course.