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# Cloudron training: drastically reduce your deployment costs

2 days (14 hours)

## Presentation

Discover the future of IT deployment and infrastructure with our Cloudron training course! With this tool, you'll be able to deploy and configure your open-source applications easily and cost-effectively. What's more, you'll retain ownership of your data, while benefiting from a high level of security.

We'll start with an in-depth introduction to Cloudron. You'll understand how this technology works and its benefits. We'll explore its features, such as automatic installation and updating of your applications.

Once you've mastered the basics, you'll learn how to configure it to suit your needs. We'll take you step-by-step through the installation of this revolutionary tool. We'll also show you how to [install](#) iconic open-source [applications](#) such as Nextcloud, n8n, Vaultwarden and DocuSeal.

Our Cloudron training course will teach you system administration. You'll learn how to access logs, manage the network and supervise resources. You'll be able to control authorizations via roles and user groups.

What's more, our course is all about protecting your data. So we'll give you the best security practices on Cloudron, and teach you how to resolve commonly encountered errors.

As with all our training courses, this one will cover the latest version of the tool: [Cloudron 7.5](#).

## Objectives

- Understanding Cloudron's features
- Master the installation, configuration and management of applications
- Effective data protection
- Perform system administration tasks on Cloudron

## Target audience

- DevOps
- Developers
- System administrators
- CTO

## Prerequisites

Basic system administration skills.

## Cloudron training program

### Introduction

- What is Cloudron?
- Features
  - Easier application installation
  - Simplify application security management
  - Facilitate application management
  - E-mail integration
- Deployment costs with and without Cloudron

### Handling Cloudron

- Installation
- Configuring your domain
- Choosing your web host
- Create your account
- Best deployment practices
- Applications
- Managing installed applications

### Must-have open-source applications to install

- Nextcloud, a Google Drive that respects the ownership of your data
- n8n, an open-source tool for workflow automation
- Vaultwarden for secure password management
- DocuSeal, an open-source electronic signature system

- Launching and using applications

## Protecting your data

- Storage on Cloudron
- Connecting a MySQL database
- Create a backup with Amazon S3
- Create a backup with Google Cloud Storage
- Volume management

## Administration

- Network management
  - IPv4
  - IPv6
  - DNS
- Internationalization
- Access logs
- Monitor your resources
- User management
  - The users
  - Groups
  - The roles
  - Set up dual authentication
  - Implement SSO

## Security

- How does Cloudron ensure the security of your infrastructure?
- When should you configure Cloudron firewall?
- Configuring the VPS firewall
- Securing SSH access

## Cloudron API

- Methods and definitions
  - GET
  - DELETE
  - POST
  - PUT
  - PATCH
  - HEAD
- Details on tokens
- Authorization and password
- Practical work: Automating administration tasks via the API

## Solving common errors

- The missing dashboard
- Applications no longer respond
- Recovery from a full disk
- "ECANCELLED" and "EREFUSED" DNS errors

## 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.

## 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.