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CapRover Training with DigitalOcean

3 days (21 hours)

Overview

CapRover on DigitalOcean allows you to quickly deploy web applications with an experience similar to PaaS, while retaining control over a cloud infrastructure. Ideal for scaling Docker deployments, hosting multiple services, and automating HTTPS, domains, and updates.

This training aims to make your deployments reproducible: creating a Droplet, installing CapRover, configuring DNS, deploying applications (Node.js, PHP, Python), and managing environments. You'll learn how to structure a multi-app platform, isolate services, and secure access.

This training takes a 100% hands-on approach through guided workshops and demos: deployment from Git/Dockerfile, environment variables, logs, rollback, and basic monitoring. Deliverables: a working CapRover server, an operations checklist, and configuration templates (apps, domains, SSL, backups).

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Provision a DigitalOcean Droplet and set up SSH access.
- Install and configure CapRover with a domain and SSL certificates.
- Deploy Docker applications (build, registry, Git push).
- Manage variables, volumes, databases, and internal networks.
- Set up rollbacks, backups, and best practices for operation.

Target Audience

- Full-stack developers looking to deploy independently
- DevOps/SRE beginners working with Docker and self-hosted PaaS
- CTOs / technical leads of small teams

Prerequisites

- Basic knowledge of Linux and the command line
- Basic understanding of Docker (images, containers)
- Knowledge of DNS (A records, subdomains)
- Familiarity with Git and a deployment workflow

Technical prerequisites

- Machine: Minimum 8 GB RAM (16 GB recommended), x64 CPU
- Linux, macOS, or Windows with WSL2
- Terminal, code editor, SSH, Git, Docker Desktop or Docker Engine
- DigitalOcean account, a manageable domain name, stable internet connection

CapRover training program with DigitalOcean

[Day 1 - Morning]

Install CapRover on a DigitalOcean Droplet

- Create a suitable Droplet (size, region, Ubuntu LTS) and secure SSH access
- Set up DNS (A/AAAA) and the wildcard subdomain for the apps
- Install CapRover (Docker required) and verify access to the admin panel
- Configure the main domain, admin password, and basic settings
- Hands-on workshop: Provision a Droplet and complete the CapRover installation with functional DNS.

[Day 1 - Afternoon]

First deployments and application management

- Deploy an application via the CapRover CLI (caprover deploy) and via Dockerfile
- Configure ports, health checks, and HTTP-to-HTTPS redirects
- Manage environment variables and environment-specific configuration
- Read logs, diagnose a crash, and perform a rollback
- Hands-on workshop: Deploy a Node.js/React app, expose a domain, and validate logs/rollback.

[Day 2 - Morning]

HTTPS, reverse proxies, and security best practices

- Enable and automatically renew Let’s Encrypt certificates
- Configure domains (custom domains, wildcards) and routing rules
- Strengthen security: firewalls, SSH, updates, principle of least privilege
- Manage secrets and limit service exposure (ports, admin access)
- Hands-on workshop: Implementing full HTTPS and hardening access (SSH, firewall, admin).

[Day 2 - Afternoon]

Persistent data and managed services

- Set up CapRover volumes for persistence (uploads, configurations)
- Deploy a database using One-Click Apps (PostgreSQL/Redis) and manage backups
- Connect an app to a DigitalOcean Managed Database (network, credentials, TLS)
- Migration strategies and stateless/stateful separation
- Hands-on workshop: Deploy PostgreSQL + an app, persist data, and validate a simple restore.

[Day 3 - Morning]

CI/CD, image registry, and automated deployments

- Set up a CI/CD pipeline (build, tests, deployment) with CapRover
- Use a Container Registry (DigitalOcean or other) and manage image tags
- Manage environments (staging/prod) and associated variables
- Zero-downtime deployments: release strategy, health checks, and automated rollbacks
- Hands-on workshop: Create a Git pipeline (Docker build + registry push + CapRover deployment).

[Day 3 - Afternoon]

Monitoring, backups, and day-to-day operations

- Set up monitoring (CPU/RAM/disk), alerting, and incident tracking
- Centralize and manage logs (rotation, retention, diagnostics)
- Backup plan: volumes, databases, DigitalOcean snapshots
- Preparing for scalability: Droplet sizing, role separation, best practices for operations
- Hands-on workshop: Define a runbook (backup/restore) and perform a disaster recovery test.

Target Audience

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technologies or to acquire specific business knowledge or modern methods.

Entry-level requirements

The assessment conducted at the start of the training program complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technology, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training program.

Training organization registered under number 11 75 54743 75. This registration does not constitute state accreditation.
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