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# Yunohost Training

2 days (14 hours)

## Overview

YunoHost is an open-source self-hosting solution that simplifies the installation and administration of web services (email, cloud, websites, chat) on a server. It allows you to take back control of your data while maintaining an accessible and reliable user experience.

This training aims to empower you to deploy a YunoHost server, install applications from the catalog, and manage services on a daily basis. You will explore best practices for security, backups, and monitoring, with a focus on real-world use cases (small associations, micro-businesses, internal labs).

The approach is decidedly hands-on: guided workshops, demonstrations, followed by practical exercises (DNS, certificates, users, permissions). Deliverables include a working instance, an operations checklist, and reproducible procedures (installation, updates, restoration).

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

## Objectives

- Install and configure a YunoHost server on a dedicated or virtual machine.
- Manage domains, DNS, TLS certificates, and administrator access.
- Deploy, configure, and update applications from the catalog.
- Set up backups, restoration, and a maintenance strategy.
- Diagnose common issues using logs, system tools, and monitoring.

## Target Audience

- Beginner to intermediate system administrators
- DevOps / SRE professionals seeking a simple self-hosting foundation
- Technical managers at small businesses and nonprofit organizations
- Students or makers managing a personal server

## Prerequisites

- Basic Linux knowledge: shell, files, services
- Network basics: IP, ports, DNS
- Understanding of HTTP/HTTPS concepts and certificates
- Basic security knowledge (passwords, SSH)

## Technical prerequisites

- x86\_64 machine with at least 4 GB of RAM (8 GB recommended) and 20 GB of disk space
- Stable internet connection and a manageable domain name (editable DNS zone)
- OS: Debian stable (recommended) or dedicated Debian VM
- Administrator access: console/SSH, terminal (Bash), and text editor

## Yunohost Training Program

[Day 1 - Morning]

### Getting started with YunoHost and server installation

- Understanding the YunoHost architecture: Debian, services, administration portal
- Choosing the environment: VPS, dedicated server, local machine, VM
- Step-by-step installation: image, post-install, creating the main domain
- Access and initial checks: SSH, diagnostics, system updates
- Hands-on workshop: Installing YunoHost on a VM and completing the full post-installation

[Day 1 - Afternoon]

### Networking, DNS, and basic security

- Configuring DNS: A/AAAA, MX, SPF, DKIM, DMARC, checks, and propagation
- HTTPS and certificates: Let's Encrypt, renewal, troubleshooting common errors
- Access management: admin accounts, SSH keys, password policies
- Hardening: firewalls, ports, fail2ban, best practices for internet exposure
- Hands-on Workshop: Setting up DNS + Let's Encrypt certificates and validating the configuration using diagnostic tools

[Day 2 - Morning]

## User, domain, and application management

- Creating and managing users: permissions, groups, SSO, and app access
- Managing multiple domains: adding, redirects, subdomains, associated certificates
- Application catalog: installation, settings, updates, clean removal
- Reverse proxy and URLs: paths, public/private access, conflict management
- Hands-on workshop: Deploy two applications (e.g., Nextcloud and Webmail) and configure user access

[Day 2 - Afternoon]

## Backups, monitoring, and operations

- Backup strategy: scope, encryption, scheduling, local/external storage
- Restoration: partial vs. full restoration, recovery testing, incident management
- Monitoring: logs, services, alerts, reading Yunohost diagnostics
- Maintenance: Yunohost/app updates, change management, best practices for operations
- Hands-on workshop: Setting up a scheduled backup, simulating an application failure, and restore the service

## 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 professional knowledge or modern methods.

## Assessment upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, 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 Training: 60% practical, 40% theoretical. Training materials will be distributed in digital format to all participants.

## Organization

The course alternates between theoretical input from the instructor, 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.