+33 (0)1 48 10 09 46
formation@ambient-it.net
140 Avenue Jean Lolive 93500 Pantin - France

Updated on 04/30/2026

Sign up

Vates VMS Training

3 days (21 hours)

Overview

Vates VMS is a Xen-based virtualization solution designed to manage hosts, VMs, and storage with an industrial-grade approach. This training helps you deploy, operate, and secure a VMS platform for use cases such as consolidation, disaster recovery/business continuity planning (DR/BCP), and test environments.

You will learn how to install and configure Vates VMS, structure a pool, manage networks (VLANs, bonding), templates, and automate routine operations. The focus is on operational best practices: monitoring, capacity planning, access management, and hardening.

The training alternates between demos and guided workshops on a lab platform. Deliverables include installation procedures, an operations checklist, sample scripts/commands, and a backup/restore plan validated by testing.

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 initialize a Vates VMS platform (hosts, pool, storage).
- Create, clone, and manage VMs using templates and policies.
- Configure the network (bridges, VLANs, bonding) and troubleshoot issues.
- Set up backup, restore, and disaster recovery testing.
- Apply security and operational best practices (RBAC, updates, monitoring).

Target Audience

- Linux system administrators
- Virtualization/infrastructure engineers
- Network administrators involved in hypervisor connectivity
- DevOps/OPS responsible for lab or production platforms

Prerequisites

- Linux administration (services, logs, basic networking)
- Basic understanding of virtualization (CPU/RAM, storage, snapshots)
- Knowledge of TCP/IP, VLANs, and basic routing
- Understanding of RAID/LVM/NFS/iSCSI concepts (depending on storage)

Technical prerequisites

- PC with 16 GB RAM recommended (8 GB minimum) and 64-bit CPU
- OS: Linux, macOS, or Windows with WSL2 for CLI tools
- Lab access: 1–2 Vates VMS hosts or dedicated VMs + test network
- Tools: SSH terminal, code editor, API/HTTP client (curl)

Our Vates VMS training program

[Day 1 - Morning]

Discover Vates VMS and set up the environment

- Vates VMS positioning: hypervisor, use cases, components (Xen Orchestra, hosts, storage)
- Prerequisites: VT-x/AMD-V CPU, RAM, network, storage, BIOS/UEFI
- Installing a host: ISO, initial configuration, console access, and management network
- Logging into the administration interface and initial settings (NTP, DNS, updates)
- Hands-on workshop: Install a Vates VMS host and verify management connectivity.

[Day 1 - Afternoon]

Creating and managing the first VMs

- VM creation: templates, ISO, CPU/RAM settings, BIOS/UEFI, drivers
- Disk storage: choosing the storage resource, formats, performance, and best practices
- VM networking: vNIC, VLAN, MTU, naming conventions, and segmentation
- Common operations: start/stop, console, snapshots, cloning
- Hands-on workshop: Deploy 2 VMs (Linux/Windows) and verify network + console access.

[Day 2 - Morning]

Host architecture, pools, and high availability

- Concepts: pool, master, members, roles, and best practices
- Adding hosts to the pool: network/storage prerequisites, version consistency, checks
- Capacity planning: CPU/RAM overcommitment, limits, alerting
- HA and fault tolerance: principles, constraints, failover scenarios
- Hands-on workshop: Create a multi-host pool and test a live migration.

[Day 2 - Afternoon]

Advanced storage and backups

- Storage types: local, NFS, iSCSI, LVM; selection based on performance and resilience
- Disk management: thin/thick, resizing, I/O best practices
- Backups: strategies (full/incremental), retention, windows, target storage
- Restoration: full VM, disk, file, restoration tests and validation
- Hands-on workshop: Set up a backup job and restore a VM on another host.

[Day 3 - Morning]

Security, access, and day-to-day operations

- User management: roles, permissions, separation of duties
- Hardening: updates, exposed services, SSH access, network best practices
- Logging and auditing: logs, action traceability, incident diagnosis
- Monitoring: host/VM metrics, thresholds, alerts, and dashboards
- Hands-on workshop: Setting up roles (admin/operator) and validating a controlled access scenario.

[Day 3 - Afternoon]

Automation, maintenance, and disaster recovery plan

- Automation: recurring tasks (deployment, tagging, inventory) and best practices for industrialization
- Maintenance: host updates, rolling upgrades, reboot management, and maintenance
- Optimization: VM placement, load balancing, snapshot cleanup, and capacity planning
- PRA/PCA: RPO/RTO objectives, recovery scenarios, testing, and documentation
- Hands-on workshop: Create a mini operations runbook (maintenance + disaster recovery plan) and perform a 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 professional knowledge or modern methods.

Entry-level assessment

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 regarding 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.