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

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Sign up

OpenVox training

3 days (21 hours)

Presentation

OpenVox is an open-source configuration management solution from the Vox Pupuli ecosystem. Compatible with your existing Puppet modules, it is a reliable automation pillar for modern, governable platforms.

Our OpenVox training course will help you master agent/server architecture, module migration and reuse, and operational governance.

We combine an infrastructure-as-code approach with short, practical workshops to accelerate day-to-day industrialization.

You'll learn how to deploy, secure and orchestrate your configurations, integrate OpenVox into your CI/CD pipelines and validate your changes via containerized environments (e.g. test image) to make releases more reliable. The aim is to achieve a reproducible, observable and sustainable platform, while capitalizing on what you've learned.

At the end of the course, you will be able to design a secure, automated and supervised OpenVox environment, manage the release and quality of your modules, and optimize your costs and lead times by better standardizing your DevOps processes.

Like all our training courses, this one is based on the latest stable version of OpenVoxProject, and favors a resolutely practical and operational approach.

Objectives

- Understand the architecture and uses of OpenVox in a DevOps context.
- Install and configure an operational agent/server environment.
- Migrate Puppet modules and ensure compatibility.

- Secure the platform (RBAC, certificates, backups, auditing).
- Integrate OpenVox with Foreman and CI/CD pipelines.
- Test configurations via containers and industrialize deployments.

Target audience

- DevOps
- System administrators
- Infrastructure architects
- Automation managers
- Teams wishing to replace Puppet with an open-source solution

Prerequisites

- Basic knowledge of Linux
- General knowledge of CI/CD and DevOps best practices

Our OpenVox training program

[Day 1 - Morning]

Introduction to OpenVox and its ecosystem

- Understanding the context of OpenVox's creation
- Positioning in the DevOps and open source ecosystem
- Compatibility with existing Puppet modules
- Introducing the Vox Pupuli community
- Practical workshop: Quick installation of OpenVox on a VM.

[Day 1 - Afternoon]

Installation and initial configuration

- Preparing the environment: dependencies, packages and repositories
- Server and agent installation
- Basic configuration of services (openvox-server, openvox-agent)
- Start-up and cluster status check
- Practical workshop: Setting up an OpenVox server with a first agent.

Introduction to fundamental concepts

- Key differences between Puppet and OpenVox

- Manifest and configuration file management
- Organization of modules and hierarchies
- Introduction to the OpenVoxDB database
- Good structuring practices.

[Day 2 - Morning]

Agent/server architecture and node management

- Understanding the agent/server model
- Node registration and authentication
- Configuration lifecycle management
- Status tracking and drift management
- Practical workshop: Registering multiple agents and checking their compliance.

[Day 2 - Afternoon]

Using and migrating Puppet modules

- Reusing Puppet Forge modules in OpenVox
- Necessary adjustments and compatibility
- Good migration practices
- Examples of adaptation in an enterprise context
- Practical workshop: Migrating a Puppet module and applying it via OpenVox.

Security and governance in OpenVox

- Access and user management
- Setting up control via RBAC
- Securing agent/server communications
- Configuration backup and restore
- Audit and traceability of modifications.

[Day 3 - Morning]

Integration with Foreman and other tools

- Foreman tool presentation and OpenVox compatibility
- Use cases: templates, provisioning, supervision
- CI/CD connectors and integration
- Multi-environment management
- Practical workshop: Create a CI/CD pipeline storing and applying OpenVox configurations.

[Day 3 - Afternoon]

Testing, containerization and automation

- Introduction to the voxbox Docker image
- Automating configuration testing
- Testing strategies in isolated environments
- Integration with GitHub CI actions and pipelines
- Practical workshop: Building a Docker test image with OpenVox and running a module.

Contributions and best practices in production

- How to contribute to the Vox Pupuli project
- Maintaining an enterprise module repository
- OpenVox version management and upgrades
- Optimizing and industrializing deployments
- Checklist of DevOps best practices for OpenVox

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 training 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.