



MFE-IT

Reference: 2B/EN/ANS1

Getting Started with Ansible Training Course

Simple, Powerful, Agentless Automation for Your Infrastructure

Duration: 2 Days | Hours: 14 h

Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice

DESCRIPTION

Ansible is one of the most widely used automation tools in modern DevOps environments. Thanks to its declarative, agentless approach, it allows you to deploy applications, configure systems and orchestrate complex tasks in a reproducible, secure and easy-to-maintain manner — without installing agents on managed hosts.

This Ansible training course provides you with all the basics you need to master playbook writing, manage inventories, organise your roles and automate production scenarios on your Linux or cloud servers. With a strong hands-on focus, you will leave with reusable patterns and a clear understanding of how to integrate Ansible into your daily operations.

LEARNING OBJECTIVES

By the end of this training course, participants will be able to:

- Understand how Ansible works and its agentless model
- Write reusable playbooks to automate recurring tasks
- Manage inventories (static and dynamic) and environment variables
- Use roles to structure your code and promote maintainability
- Deploy services and applications at scale
- Apply security best practices (Vault, sudo, user management)

PREREQUISITES

- Basic knowledge of Linux command line
- Basic system administration skills (configuration files, services, packages)
- Proficiency with a text editor and YAML files

Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.

TARGET AUDIENCE

Developers, sysadmins, DevOps engineers and integrators who wish to standardise and improve the reliability of their IT operations.

DETAILED PROGRAMME

The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

Module 1 – Introduction to Ansible

- Architecture, operation and agentless model
- Advantages over other tools (Puppet, Chef, Salt)
- Installation and first commands

Module 2 – Inventories and Variables

- Static inventory (INI/YAML file) and host groups
- Variable management: group_vars, host_vars, defaults
- Dynamic inventories from cloud sources

Module 3 – Playbooks and Modules

- Playbook syntax and YAML best practices
- Common modules: apt, yum, copy, template, service, file
- Error handling, conditions and registers

Module 4 – Roles and Factorisation

- Organisation of playbooks into roles
- Reusability, variables per role, default files and vars
- Ansible Galaxy and role distribution

Module 5 – Security Management

- Using Ansible Vault to encrypt secrets
- sudo configuration and privilege escalation
- User deployment and SSH key management

Module 6 – Application Deployment

- Case study: deployment of a complete web stack (Nginx, app, database)
- Management of handlers and dependencies
- Rolling updates and zero-downtime deployments

Module 7 – Structure and Best Practices

- Project structure and file organisation
- Idempotence, debugging and testing
- Infrastructure-as-Code maintenance over time

TEACHING METHODS

Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: contact@mfe-it.com.

PRACTICAL INFORMATION

Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

Benefits for Participants

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

Benefits for the Organisation

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts