



MFE-IT

Reference: 2B/EN/ANS2

Advanced Ansible Training Course

Optimise Fleet Management and Application Deployment

Duration: 2 Days | Hours: 14 h

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

DESCRIPTION

Automating a task with Ansible is good. Industrialising deployments with Ansible is strategic. Designed for technical teams, this advanced training course will enable you to establish a solid, maintainable and scalable foundation for automating your deliveries and operations.

You will learn how to structure your playbooks, manage complex environments, make your deployment pipelines more reliable, secure your configurations, and integrate Ansible into a complete CI/CD chain.

LEARNING OBJECTIVES

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

- Standardise and factorise playbooks with a modular structure
- Manage multiple environments (dev, test, prod) via variables, inventories and roles
- Automate complex application or system deployments
- Integrate Ansible into a CI/CD strategy (GitLab, Jenkins, GitHub Actions)
- Secure secrets with Ansible Vault and auditing practices
- Optimise execution performance and manage errors in production

PREREQUISITES

- Good command of Ansible fundamentals: playbooks, inventories, YAML
- Knowledge of Linux and network administration
- Previous experience using Ansible in a real project or CI/CD context

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

DevOps engineers, system engineers, production managers and tech leads who are ready to seriously structure their automation.

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 – Professional structuring of Ansible projects

- Directories, roles and global variables
- Maintainable multi-environment model
- Reusable templates and shared libraries

Module 2 – Advanced playbooks and environment management

- `group_vars`, `host_vars` and overrides
- Dynamic parameters and conditional logic
- Fine-grained dependency management

Module 3 – Securing deployments

- Vault and secret rotation
- Rights segmentation and separation of secrets
- Auditability of playbooks

Module 4 – Optimisation and robustness

- Tags, handlers and complex conditions
- Error handling, dry-run and debug
- Execution order and performance tuning

Module 5 – Integration with CI/CD

- Ansible in GitLab CI, GitHub Actions and Jenkins
- Lint, tests and hooks
- Idempotent runs in pipelines

Module 6 – Case studies and application deployment

- Concrete scenarios: deployment of a complete stack
- Application restart and versioning
- Secure rollback patterns

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