Ansible – Fundamentals

Description

The Ansible training is your key to automating, orchestrating, and securing your IT environments effectively. Whether you're a beginner or already familiar with DevOps tools, this course guides you step-by-step to fully leverage Ansible. With its simple, agentless architecture and accessible language (YAML), Ansible has become a cornerstone of automation and infrastructure management.

During this training, you will learn how to install and configure Ansible, create advanced playbooks, and utilize key features like Ansible Vault to secure sensitive data. With a focus on best practices and real-world examples, this course provides immediately applicable skills. Join the Ansible training to optimize your IT processes, reduce human errors, and accelerate deployments.

Niveau
Intermédiaire
Course Content
Module 1: Positioning Ansible

- Introduction to Ansible and its role in DevOps environments.
- DevOps concepts and Infrastructure as Code (IaC).
- Comparison with other tools: Puppet, Chef, Saltstack.
- How Ansible works: architecture, inventory, modules, playbooks, tasks, roles.

Module 2: Installation and Configuration

- Installation and getting started with the tool.
- Basic commands.
- Node configuration: SSH keys and sudo privileges.
- Configuration file and inventory management.

Module 3: Ad Hoc Commands

- Executing commands in parallel.
- Managing services, files, users, and groups.
- Handling packages with yum, apt.

Module 4: Playbooks

- Introduction to playbooks: defining tasks and plays.
- YAML syntax and managing variables, modules, and tasks.
- Execution modes: dry-run, step-by-step execution, error handling.

Module 5: Modular Code and Collaboration

- Managing notifications with Handlers.
- Introduction to roles, includes, and tags.
- Exploring Ansible Galaxy for reusing and sharing code.

Module 6: Writing an Advanced Playbook

- Variables, templates, and filters.
- Conditions, loops, and control structures.
- Using prompts and facts.

Module 7: Advanced Features

- Ansible Vault for encrypting sensitive data.
- Lookups and plugins.
- Creating and debugging custom modules.
- Developing specific filters.

Documentation

- Digital course materials included

Participant profiles

- System administrators
- DevOps developers
- IT architects
- Infrastructure engineers

Prerequisites

- Basic knowledge of Docker
- Understanding of container usage
- Linux system administration skills
- Familiarity with SSH

Objectives

- Master automation with Ansible
- Write and structure playbooks
- Use Ansible Galaxy plugins
- Secure sensitive data with Ansible
- Deploy and use AWX
- Integrate Ansible into a CI/CD pipeline

Description
Ansible Training
Classroom Registration Price (CHF)
1600
Virtual Classroom Registration Price (CHF)

1500
Duration (in Days)
2
Reference
ANSIBLE-01