

Introduction to Ansible

Course A100

3 Days

Instructor-led, Hands on

Introduction

This course delivers the essential, foundational skills required to succeed with Ansible, no matter your starting point or goals. This course covers the core concepts and techniques needed for automating server configurations, deploying applications, managing cloud infrastructure, or orchestrating complex workflows. You'll learn to write powerful playbooks, manage inventories, and automate tasks using key modules. Through hands-on labs and practical examples, you'll gain the crucial knowledge to confidently work with Ansible in any environment or role. If you're ready to master the must-have skills that form the backbone of all Ansible use cases, this course is the perfect starting point.

Who Should Attend?

- System Administrators
- DevOps Engineers
- IT Operations Professionals
- Cloud Engineer

Course Outline

Module 1: Source Code Management

- What to Choose?
- SCM Option #1 - GitHub
- SCM Option #2 - GitLab
- Ansible Overview
- Introduction to Ansible

Module 2: Ansible Basics

- Introduction to YAML
- Making an Inventory
- Running a Playbook
- ansible.cfg setup
- Looping Tasks
- Setting Variables: Part 1
- Setting Variables: Part 2

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Module 3: Critical Modules and Keywords

- Ansible Module - copy
- Ansible Module - file
- Ansible Module - get_url and uri
- Templating with Jinja
- Ansible Module - template
- When Condition
- Playbook Tags

Module 4: Advanced Ansible

- Ansible Handlers and Listeners
- Ansible Error Handling
- Ansible Lookup Plugin
- Ansible Callback Plugins
- Collections, Roles, and Ansible Galaxy
- Using Collections
- Using Roles
- Making Roles
- Making Collections
- Ansible Vault

Module 5: Additional Ansible Tools

- Roles and Molecule
- Ansible Module - script
- Writing an Ansible Module with Python