# Ansible in Practice Training

Duration: **2 Day**

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## Overview

Ansible in Practice is designed for learners who want to extend their existing Linux and system administration skills into practical infrastructure automation using Ansible, one of the widely adopted configuration management tools in modern DevOps environments.

The programme follows a staged learning approach that combines foundational theory with practical application. During the initial discovery phase, learners work through self-paced online resources covering the prerequisite knowledge required for Ansible. This includes Linux command-line fundamentals, YAML, and an introduction to practical Ansible usage.

The learning then progresses into a two-day live, instructor-led workshop focused on Ansible's essential building blocks. Participants learn how to create playbooks, manage inventory files, introduce variables, structure configurations with roles, and work with AWX as a web-based interface for Ansible automation. AWX credentials and job execution are also covered as part of the practical workshop.

The final stage focuses on transferring these skills into the workplace. Learners receive a set of acceptance criteria that can be used to develop a workplace-focused Ansible configuration project. The completed work is then reviewed and showcased with a technical Ansible expert, providing an opportunity for practical feedback.

By completing the course, learners will have experience configuring infrastructure through Ansible scripts and automation workflows, providing a practical foundation for applying Ansible within real working environments.

## Prerequisites

Participants are recommended to have:

- Working knowledge of Linux, networking, and YAML
- Basic familiarity with at least one cloud platform such as AWS, Azure, or GCP
- Approximately six months of experience in a role involving DevOps infrastructure

## Who Should Attend

- DevOps Engineers
- System Administrators
- Infrastructure Engineers
- Cloud Engineers

## Outline

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## Discovery Phase

The discovery phase establishes the technical foundations required before progressing to the live Ansible workshop.

- Introduction to the Linux Command Line
- YAML fundamentals and YAML Cheat Sheet
- Introduction to Ansible and its practical use

## 2-Day Practice Phase

### Introduction to Ansible

- Understanding how Ansible works
- Configuration management fundamentals
- Ansible within DevOps workflows
- Automating infrastructure configuration with Ansible

### Playbooks

- Understanding Ansible Playbook structure
- Defining configuration tasks through Playbooks
- Configuring nodes with Playbooks
- Building repeatable automation workflows

### The Inventory File

- Understanding Ansible Inventory
- Defining managed hosts and nodes
- Working with Inventory Files

### Variables

- Using Variables in Ansible
- Making Playbooks more flexible with variable values
- Managing configuration values

### Roles

- Understanding Ansible Roles
- Organising configurations into reusable components
- Improving Playbook structure through Roles

### Introducing AWX

- Understanding the role of AWX within the Ansible ecosystem
- Working with the open-source Ansible web interface
- Using AWX as an alternative interface to command-line Ansible

### AWX Credentials

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- Configuring credentials within AWX
- Managing access information required by automation tasks

### AWX Jobs

- Creating and running jobs through AWX
- Managing Ansible automation tasks from the web interface

### Workplace Application – Ansible Configuration

During the live learning stage, participants prepare a Workplace Proposal demonstrating how the Ansible techniques and skills covered throughout the programme could be applied within a real working environment.

Learners receive a defined set of acceptance criteria that can be used to develop a workplace-focused Ansible configuration project. The objective is to translate the technical concepts covered during the course into a practical infrastructure automation scenario.

The process concludes with a full review and showcase session between the learner and a technical Ansible expert, providing an opportunity to present the solution and receive technical feedback.