

# Introduction to Ansible / Automation with Ansible

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*Duration: 3 Day(s)*

## Course Overview

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Hands-on Ansible / Introduction to Automation with Ansible is a three-day, lab-intensive course geared for toward those responsible for automation of configuration management; consistent and repeatable application deployment; provisioning and deployment of development, testing, and production servers; and (optionally) integration with DevOps CI/CD workflows. Throughout the course participants will explore core Ansible features such as automatic provisioning, configuration management, service deployment and operational processes. This course also covers enterprise topics such as managing sensitive data (Ansible Vault), Ansible Tower, and integrating with Docker (optional). Attendees might include Linux system administrators, DevOps engineers, infrastructure automation engineers, and systems design engineers.

Review this course online at <https://www.alta3.com/courses/TTDV7580>

## Objectives

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- Understand core Ansible features and installation of Ansible Engine.
- Develop and deploy Ansible playbooks for automation of tasks.
- Manage large-scale projects efficiently with Ansible roles.
- Troubleshoot, configure, and optimize Ansible deployments.

## Who Should Attend

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- System administrators
- DevOps engineers
- Infrastructure automation engineers
- IT professionals

## Prerequisites

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Attendees should have incoming experience similar to the topics listed in the course(s) below or should have attended these as a pre-requisite: • TTPS4800 Introduction to Python Programming Basics – 3 days • TTLX2103 Introduction to Linux – 3 days

## Course Outline

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### Ansible Overview

1. Overview of Architecture
2. Overview of Deployments
3. Inventory

### Deploying Ansible

4. Installing
5. Configuration Files
6. Running Ad Hoc Commands

7. Dynamic Inventory

## **Playbooks**

8. Writing YAML Files

9. Modules

## **Variables and Inclusions**

10. Variables

11. Facts

12. Inclusions

## **Task Control**

13. Constructing Flow Control

14. Handlers

15. Tags

16. Handling Errors

17. Jinja2 Templates

## **Roles**

18. Role Structure

19. Creating Roles

20. Deploying Roles with Ansible Galaxy

21. Optimizing Ansible

## **Configuring Connection Types**

22. Configuring Delegation

23. Configuring Parallelism

24. Ansible Vault

25. Configuring Ansible Vault

26. Executing with Ansible Vault

27. Troubleshooting Ansible

## **Troubleshooting Playbooks**

28. Troubleshooting Managed Hosts

## **Ansible Tower**

29. Installing

30. Account management

31. Hosts

