Introduction to Ansible: Automation with Ansible (TTDV7580)

Category: Software Development & Programming | **Vendor:** Trivera Tech

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This lab-intensive course is geared toward those responsible for automation of configuration management; consistent and repeatable application deployment; provisioning and deployment of development, testing, and production servers; and integration with DevOps CI/CD workflows. Throughout the course you will explore core Ansible features such as automatic provisioning, configuration management, service deployment and operational processes.

About This Course

This lab-intensive course is geared toward those responsible for automation of configuration management; consistent and repeatable application deployment; provisioning and deployment of development, testing, and production servers; and integration with DevOps CI/CD workflows. Throughout the course you will explore core Ansible features such as automatic provisioning, configuration management, service deployment and operational processes.

Who Should Attend

This is an Introductory level course for experienced Linux system administrators, DevOps engineers, infrastructure automation engineers, and systems design engineers. Ideally students should have familiarity with basic Python scripting. Attendees without programming skills can follow along with the scripting portion of the labs.

Prerequisites & Entry Requirements

General Prerequisites:

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Learning Outcomes

Upon successful completion of this course, participants will be able to:

This course is approximately 50% hands-on, combining expert lecture, real-world demonstrations and group discussions with machine-based practical labs and exercises. Working in a hands-on learning environment led by our expert practitioner attendees will explore how to:
Describe Ansible concepts and install Red Hat Ansible Engine (optional – we can pre-install is as well if desired, depending on the audience)
Deploy Ansible and Configure Ansible to manage hosts and run ad hoc Ansible commands.
Implement playbooks
Write a simple Ansible playbook and run it to automate tasks on multiple managed hosts.
Manage variables and facts
Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed hosts.
Implement task control; Manage task control, handlers, and task errors in Ansible playbooks.
Deploy files to managed hosts
Deploy, manage, and adjust files on hosts managed by Ansible.
Manage large projects
Write playbooks that are optimized for larger, more complex projects.
Simplify playbooks with roles
Use Ansible roles to develop playbooks more quickly and to reuse Ansible code.
Troubleshoot Ansible
Troubleshoot playbooks and managed hosts.
Automate Linux administration tasks
Automate common Linux system administration tasks with Ansible

Detailed Course Outline

Ansible Overview

- Overview of Architecture
- Overview of Deployments
- Inventory

Deploying Ansible

- Installing
- Configuration Files
- Running Ad Hoc Commands
- Dynamic Inventory

Playbooks

- Writing YAML Files
- Modules

Variables and Inclusions

- Variables
- Facts
- Inclusions

Task Control

- Constructing Flow Control
- Handlers
- Tags
- Handling Errors

Jinja2 Templates

- Jinja2 Templates
- Jinja2 Templates

Roles

- Role Structure
- Creating Roles
- Deploying Roles with Ansible Galaxy

Optimizing Ansible

- Configuring Connection Types
- Configuring Delegation
- Configuring Parallelism

Ansible Vault

- Configuring Ansible Vault
- Executing with Ansible Vault

Troubleshooting Ansible

- Troubleshooting Playbooks
- Troubleshooting Managed Hosts

Ansible Tower

- Ansible Tower overview
- Installing
- Account management
- Hosts
- Jobs

Optional: Ansible in a DevOps Environment

- Provisioning Vagrant Machines
- Deploying Vagrant in a DevOps Environment
- Deploying Docker in a DevOps Environment

, Course Agenda

Ansible Overview

Overview of Architecture

Overview of Deployments

Inventory

Deploying Ansible

Installing

Configuration Files

Running Ad Hoc Commands

Dynamic Inventory

Playbooks

Writing YAML Files

Modules

Variables and Inclusions

Variables

Facts

Inclusions

Please note that this list of topics is based on our standard course offering, evolved from typical industry uses and trends. We will work with you to tune this course and level of coverage to target the skills you need most.

Task Control

Constructing Flow Control

Handlers

Tags

Handling Errors

Jinja2 Templates

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Roles

Role Structure

Creating Roles

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Ansible Vault

Configuring Ansible Vault

Executing with Ansible Vault

Troubleshooting Ansible

Troubleshooting Playbooks

Troubleshooting Managed Hosts

Ansible Tower

Ansible Tower overview

Installing

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Jobs

Additional Course Details

Nexus Humans Introduction to Ansible: Automation with Ansible (TTDV7580) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Introduction to Ansible: Automation with Ansible (TTDV7580) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Introduction to Ansible: Automation with Ansible (TTDV7580)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Introduction to Ansible: Automation with Ansible (TTDV7580) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to Ansible: Automation with Ansible (TTDV7580) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to Ansible: Automation with Ansible (TTDV7580)?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to Ansible: Automation with Ansible (TTDV7580). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Ansible

Q: Why choose Nexus Human for Introduction to Ansible: Automation with Ansible (TTDV7580)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to Ansible: Automation with Ansible (TTDV7580) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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