

[DO407]: Automation with Ansible I

Length : 4 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

Through hands-on labs, students will learn to automate system administration tasks on managed hosts with Ansible, learn how to write Ansible playbooks to standardize task execution, centrally manage playbooks and schedule recurring execution through a web interface with Ansible Tower. Students will also learn to manage encryption for Ansible with Ansible Vault, deploy Ansible Tower and use it to manage systems, and use Ansible in a DevOps environment with Vagrant.

This course is based on Red Hat® Enterprise Linux® 7.

Audience Profile

System and cloud administrators who need to automate cloud provisioning, configuration management, application deployment, intra-service orchestration, and other IT needs.

At Course Completion

- Install and troubleshoot Ansible on central nodes and managed hosts
- Use Ansible to run ad-hoc commands and playbooks to automate tasks
- Write effective Ansible playbooks
- Protect encrypted data needed for tasks with Ansible Vault
- Use Ansible Tower to more easily manage enterprise Ansible deployments
- Work with Ansible in conjunction with Vagrant in a DevOps environment

Pre-Requisites

- Have a Red Hat Certified System Administrator (RHCSA) certification or equivalent experience

Course Outline

Module 1: Course introduction

Lessons

- Introduce and review the course

Module 2: Introduce Ansible

Lessons

- Describe the terminology and architecture of Ansible

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Module 3: Deploy Ansible

Lessons

- Install Ansible and run ad hoc commands

Module 4: Implement playbooks

Lessons

- Write Ansible plays and execute a playbook

Module 5: Manage variables and inclusions

Lessons

- Describe variable scope and precedence, manage variables and facts in a play, and manage inclusions

Module 6: Implement task control

Lessons

- Manage task control, handlers, and tags in Ansible playbooks

Module 7: Implement Jinja2 templates

Lessons

- Implement a Jinja2 template

Module 8: Implement roles

Lessons

- Create and manage roles

Module 9: Configure complex playbooks

Lessons

- Configure connection types, delegations, and parallelism

Module 10: Implement Ansible Vault

Lessons

- Manage encryption with Ansible Vault

Module 11: Troubleshoot Ansible

Lessons

- Troubleshoot the Ansible control machine and managed nodes

Module 12: Implement Ansible Tower

Lessons

- Implement Ansible Tower

Module 13: Implement Ansible in a DevOps environment

Lessons

- Implement Ansible in a DevOps environment using Vagrant

Module 14: Comprehensive review

Lessons

- Review tasks from the Automation with Ansible course

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