

DO417 - Microsoft Windows Automation with Red Hat Ansible

Course Duration: 40 Hours (5 Days)

Overview

The Microsoft Windows Automation with Red Hat Ansible course is designed for users looking to automate Windows systems using Ansible, a powerful open-source automation tool. Through this course, learners will gain hands-on experience with the fundamentals of Ansible, including Running simple commands, implementing playbooks, managing variables, installing software, and Controlling tasks. Starting with an Introduction to Red Hat Ansible Automation, the course progresses through modules that cover various aspects of automation such as Implementing Ansible Playbooks, managing variables and Facts, and Deploying Files. Additionally, learners will explore how to Interact with Users and Domains, Automate Windows Automation Tasks, and Manage Large Projects. The course culminates with constructing workflows in Ansible Tower, enabling learners to manage complex automation tasks efficiently. By the end of the course, participants will have a strong foundation in automating Microsoft Windows environments using Red Hat Ansible, enhancing their IT automation and management capabilities.

Audience Profile

Learn to streamline IT operations and enhance efficiency with Koenig Solutions' Microsoft Windows Automation with Red Hat Ansible course, designed for system administrators and DevOps professionals.

- IT Professionals seeking to automate Windows system tasks.
- System Administrators managing mixed IT environments.
- DevOps Engineers integrate Ansible into their workflows.
- Network Administrators automating network configurations.
- Security Professionals automating security patching and compliance checks.
- Cloud Engineers automating cloud provisioning and management.
- Software Developers streamlining development environments through automation.
- Technical Support Specialists automating routine maintenance tasks.
- Infrastructure Architects designing scalable and automated environments.
- IT Managers overseeing cross-platform automation strategies.
- Quality Assurance Engineers automating testing environments and tasks.
- IT Automation Consultants specializing in Ansible implementation.

Course Syllabus

Introducing Red Hat Ansible Automation Platform

- Describe the fundamental concepts of Ansible and its use cases.
- Install development tools from the Red Hat Ansible Automation Platform.

Preparing for Ansible Operations

- Prepare Microsoft Windows hosts for Ansible automation.
- Configure the automation controller to execute tasks on Windows hosts.

Implementing Ansible Playbooks

- Write and execute a simple playbook to automate tasks on multiple Microsoft Windows-based hosts.
- Run the playbook using the automation controller.

Managing Variables and Facts

- Utilize variables in playbooks to simplify management.
- Leverage facts to reference information about managed hosts.

Installing and Configuring Software

- Install, manage, and ensure software is up to date using Ansible playbooks.

Implementing Task Control

- Manage task execution using loops, conditional tests, and handlers.
- Implement failure recovery mechanisms for tasks.

Deploying Files to Managed Hosts

- Deploy, modify, and manage files on Windows hosts.

Reusing Code with Ansible Roles and Ansible Content Collections

- Optimize playbooks for larger and more complex projects.
- Reuse existing automation code efficiently.

Interacting with Users and Domains

- Manage local and domain users, as well as Active Directory domains on managed hosts.
- Generate a dynamic inventory of managed hosts in the automation controller based on domain membership.

Automating Windows Administration Tasks

- Automate common Windows Server administration tasks using Ansible.

Comprehensive Review

- Review and reinforce key concepts from Microsoft Windows Automation with Red Hat Ansible.