Microsoft Windows Automation with Red Hat Ansible Automation Platform (DO417) Training

Duration: **4 Day**

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Overview

Automate the configuration, deployment, and management of**Microsoft Windows servers and applications** using **Red Hat Ansible Automation Platform**.

The {*training} introduces system administrators, DevOps engineers, and developers to performing**core Windows Server administration tasks through automation**.
You will learn how to write, manage, and execute**Ansible Playbooks** that streamline Windows operations, integrate with Active Directory, and maintain system consistency across multiple environments.

> *This course is based on Red Hat® Ansible Automation Platform 2.4.*

Who Should Attend

This course is intended for:

- **System Administrators** managing Windows-based infrastructure.
- **DevOps Engineers** automating deployment pipelines for hybrid environments.
- **Developers** maintaining applications hosted on Microsoft Windows servers.

What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Write **Ansible Playbooks** that automate Windows Server tasks.
- Manage automation projects in **Git-based version control systems**.
- Execute playbooks using the **web-based Automation Controller (AWX/Tower)** interface.
- Automate **software installation, configuration, and updates**.
- Use **loops, conditionals, and handlers** to create dynamic automation workflows.
- Implement **error recovery and failover handling** in playbooks.
- Manage **files, users, and permissions** through Jinja2 templates and automation modules.
- Integrate with **Active Directory** for domain management and dynamic inventory creation.
- Reuse automation logic with **Roles, Collections, and PowerShell DSC**.

Impact on the Organization

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By automating **Windows Server management** with **Red Hat Ansible Automation Platform**, organizations can:

- **Reduce downtime** during updates and maintenance.
- Ensure **consistent configurations** across all servers.
- Minimize **human error** and operational cost.
- Use **one unified automation platform** to manage Windows, Linux, and network infrastructure.

This unified approach improves cross-platform management efficiency and enforces enterprise standards.

Impact on the Individual

Upon completing this course, students will:

- Learn to **automate Windows Server administration** using Ansible.
- Save time by **executing tasks consistently and automatically**.
- Gain expertise in **writing modular, error-resistant playbooks**.
- Manage **Active Directory, domain users, and Windows features** programmatically.
- Use **Automation Controller** to centralize and monitor automation at scale.

You'll graduate ready to manage enterprise Windows environments with **reliable, repeatable, and scalable automation**.

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Outline

1. Introduction to Red Hat Ansible Automation Platform
Learn Ansible's core principles and set up the Red Hat Ansible Automation Platform for use with Windows.

2. Preparing for Automation
Configure Windows hosts for remote automation and integrate them with the Automation Controller.

3. Implementing Playbooks
Create and run simple playbooks to automate administrative tasks across multiple Windows hosts.

4. Managing Variables and Facts
Simplify playbook management with reusable variables and system facts.

5. Installing and Configuring Software
Automate installation, updates, and configuration management of Windows applications.

6. Implementing Task Control
Apply loops, conditionals, and handlers to make automation more efficient and fault-tolerant.

7. Deploying Files and Templates
Distribute and manage configuration files and templates using Jinja2.

8. Reusing Code with Roles and Collections
Structure complex automation with reusable Ansible Roles and Content Collections.

9. Managing Users and Domains
Automate Active Directory operations, domain membership, and user management.

10. Automating Common Administration Tasks
Perform automated system management, maintenance, and compliance operations.

11. Comprehensive Review
Apply all learned concepts to real-world automation use cases.