Microsoft Windows Automation with Red Hat Ansible

Duration: 5 Days Course Code: DO417

Overview:

Introduction to performing core system administration tasks by creating and running automation for a Windows Server using Red Hat Ansible Automation Platform.
Microsoft Windows Automation with Red Hat Ansible Automation Platform (DO417) is designed for System administrators, DevOps engineers, and developers who want to learn how to automate the deployment and management of Microsoft Windows servers and applications hosted on them using Red Hat Ansible Automation Platform.
Students learn how to create and run automation for Windows Server using Red Hat Ansible Automation Platform, in order to perform core system administration tasks
Students can use automation to perform their tasks consistently, repeatably, and automatically, saving time and avoiding errors that might be caused by performing these tasks manually
This course is based on Red Hat® Ansible Automation Platform 2.4.
Note: DO417 is an entry-level Ansible course and does not require or provide Linux knowledge
Following course completion, hands-on lab access will remain available for up to 45 days for any live course that includes a virtual environment.This course is offered as a four day in classroom, a five day virtual class or self-paced.
Updated : Nov2025

Target Audience:

System administrators, DevOps engineers, and developers who are responsible for automating the deployment and management of Microsoft Windows servers and applications hosted on them using Red Hat Ansible Automation Platform

Objectives:

- After this course participants should be able to:
- Write Ansible Playbooks that automate tasks on Microsoft Windows servers
- Manage Ansible Playbooks stored in a Git-based version control system
- Run Ansible Playbooks by using the automation controller web-based UI
- Manage and ensure software and Windows features are installed and up-to-date using Ansible automation
- Write efficient tasks in Ansible Playbooks by using loops, conditional tests, and handlers
- Write Ansible Playbooks that ensure plays can recover when tasks fail
- Deploy, modify, and manage files with Ansible on your Windows servers, use completed files and Jinja2 templates
- Manage local and domain users, manage Active Directory domains, and generate dynamic inventory of managed hosts in automation controller based on domain membership
- Automate specific, common Windows Server administration tasks
- Reuse existing automation code by using Ansible Content Collections, Ansible Roles, and Ansible integration with PowerShell Desired State Configuration (DSC) resources

Prerequisites:

- A basic understanding of Windows Server administration is expected
- Students do not need any previous experience with Ansible or Linux

Testing and Certification

- Red Hat Certified Specialist in Microsoft Windows Automation with Ansible Exam (EX417)

Follow-on-Courses:

- RH294 - Red Hat Enterprise Linux Automation with Ansible
- DO457 - Network Automation with Red Hat Ansible Automation Platform

Content:

Introducing Red Hat Ansible Automation Platform

Describe the fundamental concepts of Ansible and how it is used, and install development tools from Red Hat Ansible Automation Platform

Preparing for Ansible Operations

Prepare Microsoft Windows hosts for Ansible automation and automation controller to run automation on those hosts

Implementing Ansible Playbooks

Write a simple playbook to automate tasks on multiple Microsoft Windows-based hosts, and then run the playbook with automation controller

Managing Variables and Facts

Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed hosts

Installing and Configuring Software

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

Implementing Task Control

Manage task execution using loops, conditional tests, and handlers, and recover when tasks fail

Deploying Files to Managed Hosts

Deploy, modify, and manage files on your managed hosts

Reusing Code with Ansible Roles and Ansible Content Collections

Write playbooks that are optimized for larger and more complex projects and that reuse existing automation code

Interacting with Users and Domains

Manage local and domain users and Active Directory domains on managed hosts, and generate a dynamic inventory of managed hosts in automation controller based on domain membership

Automating Windows Administration Tasks

Automate common Windows Server administration tasks

Comprehensive Review

Review tasks from Microsoft Windows Automation with Red Hat Ansible Automation Platform

Additional Information:

Official course book provided to participants.

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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