

## Microsoft Windows Automation with Red Hat Ansible

**Duration: 90 Days    Course Code: DO417    Delivery Method: Elearning (Self-paced)**

### 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.

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### e-Learning

Interactive self-paced content that provides flexibility in terms of pace, place and time to suit individuals and organisations. These resources also consist of online books, educational podcasts and vodcasts, and video-based learning.

### 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)

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### Follow-on-Courses:

- RH294 - Red Hat Enterprise Linux Automation with Ansible
  - DO457 - Network Automation with Red Hat Ansible Automation Platform Classroom Training
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### Content:

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|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Introducing Red Hat Ansible Automation Platform                                                                                           | Installing and Configuring Software                                                                                                                    | Interacting with Users and Domains                                                                                                                                                 |
| Describe the fundamental concepts of Ansible and how it is used, and install development tools from Red Hat Ansible Automation Platform   | Install, manage, and ensure software is up to date using Ansible Playbooks. Install, manage, and ensure software is up to date using Ansible Playbooks | 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 |
| Preparing for Ansible Operations                                                                                                          | Implementing Task Control                                                                                                                              | Automating Windows Administration Tasks                                                                                                                                            |
| Prepare Microsoft Windows hosts for Ansible automation and automation controller to run automation on those hosts                         | Manage task execution using loops, conditional tests, and handlers, and recover when tasks fail                                                        | Automate common Windows Server administration tasks                                                                                                                                |
| Implementing Ansible Playbooks                                                                                                            | Deploying Files to Managed Hosts                                                                                                                       | Comprehensive Review                                                                                                                                                               |
| Write a simple playbook to automate tasks on multiple Microsoft Windows-based hosts, and then run the playbook with automation controller | Deploy, modify, and manage files on your managed hosts                                                                                                 | Review tasks from Microsoft Windows Automation with Red Hat Ansible Automation Platform                                                                                            |
| Managing Variables and Facts                                                                                                              | Reusing Code with Ansible Roles and Ansible Content Collections                                                                                        |                                                                                                                                                                                    |
| Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed hosts          | Write playbooks that are optimized for larger and more complex projects and that reuse existing automation code                                        |                                                                                                                                                                                    |

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### Additional Information:

Official course book provided to participants.

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### Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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