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## Cloud Automation with Ansible

**Duration: 4 Days**    **Course Code: DO407**

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### Overview:

Learn how to automate Linux system administration tasks with Ansible

Automation with Ansible (DO407) is designed for Linux system administrators and developers who need to automate provisioning, configuration, application deployment, and orchestration. You will learn how to install and configure Ansible on a management workstation and prepare managed hosts for automation.

This course is based on Red Hat® Ansible Engine 2.7 and Red Hat Enterprise Linux 7.3.

Incorporating IT automation is key to managing large numbers of systems and applications efficiently and consistently at scale. In this course, you will write Ansible playbooks to automate tasks, and you will run them to ensure servers are correctly deployed and configured. You will also explore examples of how to approach the automation of common Linux system administration tasks.

The material covered in this curriculum is now included within our newly released Red Hat System Administration III: Linux Automation with Ansible (RH294) course, which covers how to use Red Hat Ansible Automation to automate across different functions. If you are interested in learning how to scale infrastructure efficiently, begin your journey with Linux automation today.

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### Target Audience:

This course is designed for Linux system administrators, DevOps engineers, infrastructure automation engineers, and systems design engineers. The curriculum is particularly geared toward those responsible for automation of configuration management; consistent and repeatable application deployment; provisioning and deployment of development, testing, and production servers; and integration with DevOps CI/CD workflows.

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### Objectives:

- As a result of attending this course, you should be able to use Ansible for the purpose of automation, configuration, and management. You should be able to demonstrate these skills:
  - Install and configure Ansible or Red Hat Ansible Engine on a control node.
  - Create and manage inventories of managed hosts and prepare them for Ansible automation.
  - Run individual ad hoc automation tasks from the command line.
  - Write Ansible playbooks to consistently automate multiple tasks and apply them to managed hosts.
  - Parameterize playbooks using variables and facts, and protect sensitive data with Ansible Vault.
  - Write and reuse existing Ansible roles to simplify playbook creation and reuse code.
  - Automate common Red Hat Enterprise Linux system administration tasks using Ansible.
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### Prerequisites:

- Be a Red Hat Certified System Administrator (RHCSA), or demonstrate equivalent Red Hat® Enterprise Linux® knowledge and experience
- Being a Red Hat Certified Engineer (RHCE) may be beneficial

### Testing and Certification

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### Follow-on-Courses:

- DO409 - Automation with Ansible II: Ansible Tower
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## Content:

Introduction to Ansible	Implement task control	Troubleshoot Ansible
Describe Ansible concepts and install Red Hat Ansible Engine.	Manage task control, handlers, and task errors in Ansible playbooks.	Troubleshoot playbooks and managed hosts.
Deploy Ansible	Deploy files to managed hosts	Automate Linux administration tasks
Configure Ansible to manage hosts and run ad hoc Ansible commands.	Deploy, manage, and adjust files on hosts managed by Ansible.	Automate common Linux system administration tasks with Ansible.
Implement playbooks	Manage large projects	Comprehensive review
Write a simple Ansible playbook and run it to automate tasks on multiple managed hosts.	Write playbooks that are optimized for larger, more complex projects.	Demonstrate skills learned in this course by installing, optimizing, and configuring Ansible for the management of managed hosts.
Manage variables and facts	Simplify playbooks with roles	
Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed hosts.	Use Ansible roles to develop playbooks more quickly and to reuse Ansible code.	

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## Additional Information:

### Red Hat Learning Subscriptions:

The Red Hat Learning Subscription is an exclusive program that provides users with 12-months access to all Red Hat Online Learning and video classroom courses. All subscribers will receive unlimited access to online learning content, up to 400 hours of hands-on lab time and more than 300 recorded instructor videos.

There are two versions available: Basic and Standard. These are also available in an Enterprise variant for large companies. The Standard is the most extensive subscription and offers access to Red Hat exams as an extra.

For more information please see LS120 and LS220 below

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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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