



# Red Hat Enterprise Linux



**ENTERPRISE LINUX**  
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**INDUSTRY LEADERS**

# Server Administration part – 3 ( RH 294 )

## Introduction

- Red Hat System Administration III : Linux Automation
- Orientation to the Classroom Environment
- Controlling Your Systems

## 1 . Introducing Ansible

- Automating Linux Administration with Ansible
- Installing Ansible
- Guided Exercise : Installing Ansible

## 2 . Deploying Ansible

- Building an Ansible Inventory
- Guided Exercise : Building an Ansible Inventory
- Managing Ansible Configuration Files
- Guided Exercise : Managing Ansible Configuration Files
- Running Ad Hoc Commands
- Guided Exercise : Running Ad Hoc Commands
- LAB : Deploying Ansible

## 3 . Implementing Playbooks

- Writing and Running Playbooks
- Guided Exercise : Writing and Running Playbooks
- Implementing Multiple Plays

- Guided Exercise : Implementing Multiple Plays
- LAB : Implementing Playbooks

#### **4 . Managing Variables and Facts**

- Managing Variables
- Guided Exercise : Managing Variables
- Managing Secrets
- Guided Exercise : Managing Secrets
- Managing Facts
- Guided Exercise : Managing Facts
- LAB : Managing Variables and Facts

#### **5 . Implementing Task Control**

- Writing Loops and Conditional Tasks
- Guided Exercise : Writing Loops and Conditional Tasks
- Implementing Handlers
- Guided Exercise : Implementing Handlers
- Handling Task Failure
- Guided Exercise : Handling Task Failure
- LAB : Implementing Task Control

#### **6 . Deploying Files to Managed Hosts**

- Modifying and Copying Files to Hosts
- Guided Exercise : Modifying and Copying Files to Hosts
- Deploying Custom Files with Jinja2 Templates
- Guided Exercise : Deploying Custom Files with Jinja2 Templates
- LAB : Deploying Files to Managed Hosts

## **7 . Managing Large Projects**

- Selecting Hosts with Host Patterns
- Guided Exercise : Selecting Hosts with Host Patterns
- Managing Dynamic Inventories
- Guided Exercise : Managing Dynamic Inventories
- Configuring Parallelism
- Guided Exercise : Configuring Parallelism
- Including and Importing Files
- Guided Exercise : Including and Importing Files
- LAB : Managing Large Projects

## **8 . Simplifying Playbooks with Roles**

- Describing Role Structure
- Reusing Content with System Roles
- Guided Exercise : Reusing Content with System Roles
- Creating Roles
- Guided Exercise : Creating Roles
- Deploying Roles with Ansible Galaxy
- Guided Exercise : Deploying Roles with Ansible Galaxy
- LAB : Simplifying Playbooks with Roles

## **9 . Troubleshooting Ansible**

- Troubleshooting Playbooks
- Guided Exercise : Troubleshooting Playbooks
- Troubleshooting Ansible Managed Hosts
- Guided Exercise : Troubleshooting Ansible Managed Hosts

- LAB : Troubleshooting Ansible

## **10 . Automating Linux Administration Tasks**

- Managing Software and Subscriptions
- Guided Exercise : Managing Software and Subscriptions
- Managing Users and Authentication
- Guided Exercise : Managing Users and Authentication
- Managing the Boot Process and Scheduled Processes
- Guided Exercise : Managing the Boot Process and Scheduled Processes
- Managing Storage
- Guided Exercise : Managing Storage
- Managing Network Configuration
- Guided Exercise : Managing Network Configuration
- LAB : Automating Linux Administration Tasks

## **11 . Comprehensive Review : Automation with Ansible**

- Comprehensive Review
- LAB : Deploying Ansible
- Creating Playbooks
- LAB : Creating Roles and Using Dynamic Inventory