

Linux Red Hat Certified Engineer (RHCE – 294) Course Syllabus

Section 1: Introduction

- Course introduction
- Course overview
- Exam information
- Exam (EX294) format

Section 2: Introduce Ansible

- What is Ansible and its Background
- Benefits and Key Terms of Ansible
- How Ansible Automation Works
- Lab Design
- Install Oracle VirtualBox and Setup Ansible Node on Linux
- Additional Ansible Clients
- Install Ansible Automation
- Ansible Configuration File
- YAML File Syntax and Example
- Handouts and Quiz

Section 3: Ansible Playbook Implementation

- Writing First Ansible Playbook
- Output Playbook
- Creating Multiple Tasks playbook
- Install and Start a Service from a Playbook
- Hosts File Syntax
- Setup Connection to Remote Clients
- Remote Clients Connectivity Status
- Handouts and Quiz

Section 4: Deploy Files to Managed Hosts/Clients

- Copy Files to Remote Clients
- Change File Permissions
- Check File or Directory Status
- Create Dir/File and Remove File
- Create a File and Add Text
- Handouts and Quiz

Section 5: Manage Complex Plays and Playbooks

- Setup Apache and Open Firewall Port
- Run Shell Scripts on Remote Clients
- Schedule a job (crontab)
- Download Package from a URL
- Create and Mount New Storage
- Handouts and Quiz

Section 6: Automate Linux Administration Tasks

- User Account Management
- Add or Update User Password
- Kill a Running Process
- Handouts and Quiz

Section 7: Implement Task Control

- Pick and Choose Steps
- Ansible Ad-Hoc Commands (Part 1)
- Ansible Ad-Hoc Commands (Part 2)
- Ansible Ad-Hoc Commands (Part 3)
- Handlers
- Conditions
- Loops
- Handouts and Quiz

Section 8: Simplify Playbooks with Roles

- Ansible Roles
- Roles by Application
- Roles on Ansible Galaxy
- Handouts and Quiz

Section 9: Variables, Facts and Additional Features

- Tags
- Variables
- Variables in Inventory File
- Ansible Vault
- Encrypt Strings within a Playbook
- Handouts and Quiz

Section 10: Ansible Tools and Resources

- Other Automation tools
- Free source Ansible and Red Hat Ansible

- Ansible AWX and Tower
- Ansible Additional Commands
- Documentation and Community Help
- Handouts and Quiz