

Course Syllabus

Section 1: Introduction

- Course overview
- What is Ansible?
- History of Ansible
- Benefits
- Terminologies in Ansible
- How Ansible works?
- Other Automation tools
- Free source Ansible and Red Hat Ansible
- Handouts
- Quiz

Section 2: Lab Design and Setup

- Lab design
- Installing virtualization software
- Creating a VM and Installing Linux
- Creating Ansible Clients
- Installing Ansible
- Handouts
- Quiz

Section 3: Ansible Automation with Simple Playbooks

- YAML file syntax
- YAML file syntax example
- Creating first playbook
- Output playbook
- Multiple tasks playbook
- Playbook for installing and starting a service
- Handouts
- Quiz

Section 4: Ansible Automation for Remote Clients

- Remote Clients hosts File Syntax
- Establish Connection to Remote Clients
- Playbook
 - Check Remote Clients Connectivity
 - Copy Files to Remote Clients
 - Change File Permissions
 - Setup Apache and Open Firewall Port

- Run Shell Scripts on Remote Clients
- Schedule a job (crontab)
- User Account Management
- Add or Update User Password
- Download Package from a URL
- Kill a Running Process
- Pick and Choose Steps
- Handouts
- Quiz

Section 5: Ansible Automation with Ad-hoc Tasks

- Ansible Ad-Hoc Commands (Part 1)
- Ansible Ad-Hoc Commands (Part 2)
- Ansible Ad-Hoc Commands (Part 3)
- Handouts
- Quiz

Section 6: Advance Ansible Automation Features

- Roles
- Roles by Application
- Roles on Ansible Galaxy
- Tags
- Variables
- Variables in Inventory File
- Handouts
- Quiz

Section 7: Additional Features in Ansible

- Handlers
- Conditions
- Loops
- Handouts
- Quiz

Section 8: Securing Ansible

- Handlers
- Conditions
- Loops
- Handouts
- Quiz

Section 9: Ansible Management Tools

- [Ansible AWX](#)
- [Ansible Tower](#)
- [Handouts](#)
- [Quiz](#)

Section 10: Ansible Resources

- [Ansible Additional Commands](#)
- [Ansible Documentation](#)
- [Community Help](#)
- [Handouts](#)
- [Quiz](#)