



Linux Pathshala Limited

Automation with Ansible Course Outline

1. Introducing Ansible
 - Overview of Ansible Architecture
 - Quiz: Ansible Architecture
 - Overview of Ansible Deployments
 - Quiz: Ansible Deployments
 - Describing Ansible Inventory
 - Quiz: Ansible Inventory
 - Summary

2. Deploying Ansible
 - Installing Ansible
 - Guided Exercise: Installing Ansible
 - Managing Ansible Configuration Files
 - Guided Exercise: Managing Ansible Configuration Files
 - Running Ad Hoc Commands
 - Guided Exercise: Running Ad Hoc Commands
 - Managing Dynamic Inventory
 - Guided Exercise: Managing Dynamic Inventory
 - Lab: Deploying Ansible
 - Summary

3. Implementing Playbooks
 - Writing YAML Files
 - Guided Exercise: Writing YAML Files
 - Implementing Modules
 - Guided Exercise: Implementing Modules
 - Implementing Ansible Playbook
 - Guided Exercise: Implementing Ansible Playbooks
 - Lab: Implementing Playbooks
 - Summary

4. Managing Variables and Inclusions
 - Managing Variables
 - Guided Exercise: Managing Variables
 - Managing Facts
 - Guided Exercise: Managing Facts

- Managing Inclusions
- Guided Exercise: Managing Inclusions
- Lab: Managing Variables and Inclusions

- Summary
5. Implementing Task Control
 - Constructing Flow Control
 - Guided Exercise: Constructing Flow Control
 - Implementing Handlers
 - Guided Exercise: Implementing Handlers
 - Implementing Tags
 - Guided Exercise: Implementing Tags
 - Handling Errors
 - Guided Exercise: Handling Errors
 - Lab: Implementing Task Control
 - Summary
 6. Implementing Jinja2 Templates
 - Describing Jinja2 Templates
 - Quiz: Describing Jinja2 Templates
 - Implementing Jinja2 Templates
 - Guided Exercise: Implementing Jinja2 Templates
 - Lab: Implementing Jinja2 Templates
 - Summary
 7. Implementing Roles
 - Describing Role Structure
 - Quiz: Describing Role Structure
 - Creating Roles
 - Guided Exercise: Creating Roles
 - Deploying Roles with Ansible Galaxy
 - Guided Exercise: Deploying Roles with Ansible Galaxy
 - Lab: Implementing Roles
 - Summary
 8. Optimizing Ansible
 - Configuring Connection Types
 - Guided Exercise: Configuring Connection Types
 - Configuring Delegation
 - Guided Exercise: Configuring Delegation
 - Configuring Parallelism
 - Guided Exercise: Configuring Parallelism
 - Lab: Optimizing Ansible
 - Summary

9. Implementing Ansible Vault

- Configuring Ansible Vault
- Guided Exercise: Configuring Ansible Vault
- Executing With Ansible Vault
- Guided Exercise: Executing With Ansible Vault
- Lab: Implementing Ansible Vault
- Summary

10. Troubleshooting Ansible

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

11. Implementing Ansible Tower

- Describing Ansible Tower
- Quiz: Describing Ansible Tower
- Deploying Ansible Tower
- Guided Exercise: Deploying Ansible Tower
- Configuring Users in Ansible Tower
- Configuring Users in Ansible Tower
- Guided Exercise: Configuring Users in Ansible Tower
- Managing Hosts with Ansible Tower
- Guided Exercise: Managing Hosts with Ansible Tower
- Managing Jobs in Ansible Tower
- Guided Exercise: Managing Jobs in Ansible Tower
- Lab: Implementing Ansible Tower
- Summary

12. Implementing Ansible in a DevOps Environment

- Provisioning Vagrant Machines
- Guided Exercise : Provisioning Vagrant Machines
- Deploying Vagrant in a DevOps Environment
- Guided Exercise : Deploying Vagrant in a DevOps Environment
- Lab : Implementing Ansible in a DevOps Environment
- Summary

13. Comprehensive Review : Automation with Ansible

- Comprehensive Review
- Lab : Deploying Ansible
- Lab : Deploying Ansible Tower and Executing Jobs

- Lab : creating Roles and Using Dynamic Inventory
- Lab: Optimizing Ansible