

Ansible Essentials

Duration: 3 Days

Module 1: Introduction

- What is Ansible?
- Difference between Ansible/Puppet and Chef
- Current State vs Desired State

Module 2: Installation and Configuration

- Ansible Architecture
- Installing Ansible
- Inventory
- Parent-Child Relationships in Inventory
- Configuration File
- Configuration File - Precedence

Module 3: Ansible Ad-Hoc Commands

- Introduction to Ansible Ad-Hoc Commands
- Ad-Hoc Command Examples
- Setup Module and Filtering
- Host Selection Patterns

Module 4: Ansible Playbooks

- YAML Overview
- Playbook Structure
- Tasks and Idempotency
- First Playbook
- Syntax Check and Dry Run
- Playbook Execution
- Host Facts
- Yum Module
- Service Module
- Copy Module
- Loops
- Variables in Playbook
- Variables in Different File
- Variable Precedence in Ansible
- Lineinfile Module
- Apache Virtual Host Configuration
- Handlers

- Error Handling
- Register and When
- Blocks
- Templating – Loops and Conditionals
- Templating – Filters and Tests
- Templating – HAProxy Configuration
- Firewall Module
- Tags

Module 5: Creating Reusable Playbooks

- Including and Importing
- Roles
- Role Structure
- Tasks and Handlers
- Files and Templates
- Role Variables – Defaults and Vars
- Meta and Tests
- Role Execution