Introduction to Ansible

Learning Objective

- Learn about how Ansible can be used for Configuration Management and how to deploy resources using Infrastructure as a code.

Topics

- Evolution of Infrastructure
- Overview of Infrastructure as a Code
- What is Configuration Management
- Ansible Overview
- Case Study

Ansible Architecture & Installation

Learning Objective

- Learn about Ansible Architecture, Installation and Configuration of Ansible and how to work with Command Line Tools.

Topics

- Ansible Architecture and its working
- Ansible in DevOps
- Installation and Configuration
- Working with Command Line Tools

The Playbook Grammar

Learning Objective

- Learn how to write using Ansible Playbooks using various parameters and templates.

Topics

- Playbook YAML definition
- Playbook terms
- Playbook tasks
- Writing Ansible Playbooks
    - Hosts and Users
    - Variables
    - Tasks
    - Handlers
    - Jinja2 Templates

Ansible Modules

Learning Objective

- Learn how to work with Ansible Modules which are used for controlling system resources.

Topics

- Overview of Modules
- Types of Modules
    - Core Modules
    - Extras Modules
- Return Values
- Ad Hoc Commands
    - Case Study

Ansible Roles

Learning Objective

- Understand about Roles that provide a framework for fully independent or interdependent collections of variables, tasks, templates, and modules.

Topics

- Overview of Roles

- Role Directory Structure
- Using Roles
- Working with Ansible Galaxy

Ansible Tower

Learning Objective

- Learn Web-based solution -Ansible Tower for central management of automation tasks.

Topics

- Installing Ansible Tower
- Features of Ansible Tower
- Managing Jobs
- Manage and Track Inventory
- Remote Command Execution
- Case Study