

AWX for Intermediate to Advanced

Duration: 3 days (8hrs/day)

Prerequisites:

- Configuration management with Ansible

Course Objective: This comprehensive ansible course, covering collections, loops, execution environment, inventories, rolling update focuses on using container tools to efficiently develop automation for the enterprise

Ansible version: open source

Lab Requirement: Koenig-DC

Module 1 – Execution environment and git

Introduction to Execution environment

Introduction to Ansible navigator

Introduction to git

Lab: Run playbooks with Ansible Navigator

Lab: Manage ansible playbooks with git

Module 2 – Managing content collection

Search ansible galaxy for collections and use them in playbook

Choose the right execution environment image

Lab: Downloading collections using requirements.yml

Lab: Selecting an execution environment

Module 3 – Working with ansible configuration settings

Browse ansible configuration by using ansible navigator

Change configuration settings for ansible navigator

Lab: Browse ansible configuration settings

Lab: Modify ansible navigator settings

Module 4 – Managing inventories

Write static inventories in YAML format

Structure host and group variables by using multiple files

Lab: Create static inventory in YAML

Lab: Manage inventory variables

Module 5 – Managing task execution

Controlling privilege escalation at play, role, task or block level

Configure tasks to notify multiple handlers

Label task with tags and run specific tasks using tags

Identify which tasks consume most time using callback plugin

Lab: Control privilege escalation

Lab: Notify multiple handlers

Lab: Run specific tasks with tags

Lab: Optimizing execution for speed

Module 6 – Coordinating rolling updates

Manage simultaneous connections that ansible opens to managed hosts

Perform batch execution with serial

Create workflow job template to launch multiple ansible jobs as single workflow

Lab: Configure parallelism

Lab: Managing rolling updates

Module 7 – Transforming data

Templating external data with lookup

Implementing advanced loops

Lab: Templating external data with lookup

Lab: Implementing advanced loops

Module 8 – Creating and consuming execution environment

Create custom execution environment image using ansible builder

Run playbook using custom execution environment

Lab: Create custom execution environment

Lab: Run playbooks with custom execution environment