Details Course Outlines

Module-01
Introduction
- ☑ Overview of Ansible Architecture
- ☑ Ansible Components
- ☑ Overview of Ansible Deployments
- ☑ Describing Ansible Inventory
- ☑ Recap

Module-02
Deploying Ansible
- ☑ Installing Ansible
- ☑ Guided Exercise: Installing Ansible
- ☑ 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
- ☑ Managing Dynamic Inventory

Module-03
Ansible Installation on Red Hat Linux 8
- ☑ Overview of Ansible Installation
- ☑ Online Ansible Installation
- ☑ User's Account Setup for Passwordless Authentication
- ☑ Offline Ansible Installation

Module-04
Implementing Playbooks
- ☑ Writing YAML Files
- ☑ Guided Exercise: Writing YAML Files
- ☑ Implementing Modules
- ☑ Guided Exercise: Implementing Modules
- ☑ Implementing Ansible Playbooks
- ☑ Guided Exercise: Implementing Ansible Playbooks
- ☑ Lab: Implementing Playbooks

Module-05
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

Module-06
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

Module-07
Ansible Roles
- ☑ About Ansible Roles
- ☑ How do we create Ansible Roles
- ☑ Lab Session to create roles

Module-08
Industrial project to Automate Patching on Multiple Linux Server using Ansible Playbook
- ☑ Overview about Linux Patching
- ☑ Automate Linux Patching using Ansible
- ☑ Verify application/Database processes are running or not
- ☑ Decision point to start patching
- ☑ Upgrade all the packages on the server
- ☑ Check if reboot required after the kernel update
- ☑ Install the specific kernel version using Ansible Playbook.
- ☑ Various Labs to understand the Ansible Playbook for patching

Module-09
Industrial project for Stop/Start Control M appl/db
- ☑ Overview of project
- ☑ Designing of Ansible playbooks
- ☑ Lab Sessions

Module-10
Create Automation tool using Ansible & Shell
- ☑ Overview & Concept Automation Tool
- ☑ Communication between Ansible Server with managed hosts
- ☑ Front look of Automation Tool
- ☑ Pre-validation Configuration
- ☑ User Administratio (User Creation , Removal, Group Add, Password Reset)
- ☑ Run Ad Hoc Command
- ☑ Health Check Statistics (Memory , CPU Utilization, Overall I/O Activities, Top Memory & CPU , Shared Memory Consuming processes)
- ☑ Design of Automation Tool
- ☑ Design Front Look using case statement
- ☑ Color Fonts in desinging the tool
- ☑ Headline & Selecting the target servers
- ☑ Lab sessions
- ☑ Shell Scripting (If..else..elif statement, Loops, Sed – Stream Editor,Awk,The case esac statement)
- ☑ Last lecture