**Course Title : Ansible**

**Course Duration : 4 days**

**Trainer : Palani Karthikeyan**

**Objective:**

At the end of this course, the participants will be able to write ansible playbooks for advanced use cases

## Prerequisite

Basic knowledge of windows/linux essentials

**Learning outcomes**

Learn about Ansible's internals

Learn how to handle errors during playbook execution

Learn about retrieving data from external sources using Lookups.

Use Ansible Vault for securing critical information

Understand and develop templating using Jinja2

Understand to create roles

**Software / Hardware Requirements**

Intel Core i3 or i5 with a minimum of 2GB of RAM (4GB of RAM recommended).

**Softwares:-**

**Server OS : Linux (6.x or 7.x) , mac os**

**Client OS: any os**

**Hypervisor: virtual boxes**

**Contents:**

**Day -1**

About Configuration Management

What is ansible ?

Ansible architecture

Ansible installation

Ansible Inventory and Host file configuration

Ansible –adhoc commands

**Day-2**

About YAML

YAML Basics

YAML Structures

YAML –List, dictionary

Combination of List and dictionary structures

Playbook – introduction

Ansible variables

Privilege escalation

**Day-3**

Ansible Looping and conditionals

Ansible Facts

async

Run\_once

Ignore\_errors

Encrypting Data with Vault

Ansible-vaultWhat to encrypt with the vault? Encrypting the database credentialsUsing a password file

**Day-4**

Ansible tags

Ansible blocks

Multiple plays

Template section

Reusing existing tasks and playbook

Ansible roles

Galaxy