**Ansible**

Contents Ansible Fundamental and Intermediate Course .......................................3

Introduction to Ansible® .........................................................................................3

Installation................................................................................................................3

Getting Started with Ansible® ...............................................................................3

Implement playbook ................................................................................................3

Go modular with Ansible Modules .........................................................................3

Working with Roles ................................................................................................ 3

Variables & Templates ........................................................................................... 3

Control Structures – Conditionals and Iterators ......................................................3

Vault ........................................................................................................................4

Node Discovery and Clustering...............................................................................4

Best Practices ......................................................................................................... 4

Ansible® Tower ..................................................................................................... 4

Deployment Orchestration ..................................................................................... 4

Configure Complex Playbooks .............................................................................. 4

Extending Ansible .................................................................................................. 4

Ansible Cloud Integration ...................................................................................... 4

Ansible and Docker ................................................................................................ 4

**Ansible Fundamental and Intermediate Course**

**Duration – 3 days**

**Introduction to Ansible®**

* Defining what Ansible® is and does.
* Terminology and structure.
* References to online resources.

**Installation**

* What is required to install Ansible®.
* Dependencies and order of installation.
* Checking Ansible® works.
* Steps to run before starting the master.

**Getting Started with Ansible®**

* Command line options.
* Files related to start up.
* File locations.
* Minimum configuration to make Ansible® start.

**Implement playbook**

* Fundamental Building blocks of Ansible
* Writing our first playbook
* Execute and understand the fundamentals of execution process
* Structure of Playbook

**Go modular with Ansible Modules**

* Understand Modules and how they work.
* Applying them.
* Understand System and Defined Modules.
* Write your own modules.

**Working with Roles**

* Roles – The directory structure
* Create and Manage Roles
* Roles and its wing

**Variables & Templates**

* Understand Variables and basic usage i.e. variable substitution, from command line
* Using Jinja2 templates
* Write and Implement Templates

**Control Structures – Conditionals and Iterators**

* Learn to implement task controls, handlers and tags
* Learn about conditional statements and execution
* Learn about Iterators, Tags

**Vault**

* Understand what is Vault and how to write vault
* Manage Encryption with vault and what all can be encrypted

**Node Discovery and Clustering**

* Setup Nodes
* Understand How Ansible Master communicates
* Clustering set of nodes

**Best Practices**

* Enhancing the open source version to suit your enterprise.   
  Work with other systems containing host information.
* Ideas for best design and security of Ansible® configurations

**Ansible® Tower**

* Install and configure the Ansible® Tower.
* Manage systems with the web interface

**Deployment Orchestration**

* Learn to deploy applications using Ansible
* Orchestrate your multitier Application based deployments

**Configure Complex Playbooks**

* Learn to configure complex playbooks

**Extending Ansible**

* How Ansible can be extended above just being configuration management tool.

**Ansible Cloud Integration**

* AWS and ansible integration

**Ansible and Docker**

* Manage and Control Containers