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## **Ansible**

	Level	Duration
ANSIBLE	Introduction	1 day

## **Course Description**

• The main objective of this course is to learn Ansible and how to use it as configuration management tool to manage a large number of machines.

## Audience and prerequisites

• This course is mainly for DevOps engineers

## **Main Goals**

- Understand the basics of Ansible, its architecture, and how it works
- How to use it for managing multiple machines
- Apply recommended practices for effective and efficient automation with Ansible.
- Perform automation operations as rolling updates.
- Create automation execution environments to contain and scale Ansible Automation.
- Leverage capabilities of the automation content navigator to develop Ansible Playbooks.

Module	Content
Intro	◆ Introduction To Ansible
	<ul> <li>Installing &amp; Configuring Ansible</li> </ul>
	Features Of Ansible
	Ansible Architecture
	Nodes / Hosts
	◆ Children
	♦ Modules
	Configuration
	◆ Ansible Terminologies
	◆ Use Cases Of Ansible
	♦ What Can Do In Production Environment
	◆ Ansible Documentation
	How Ansible Is Different From Configuration Management Tools
	<ul> <li>Differences between Ansible to IAC (ex: Terraform)</li> </ul>
Basics/Inventory	
	◆ Facts
	Representation Of Dictionary
	Inventory Management
	Non-group Inventory File
	Group Inventory File
	Ansible Inventory Parameters
Ansible CLI	
	ansible
	◆ ansible
	◆ ansible-playbook
	• ansible-galaxy
	◆ ansible-playbook
	◆ Variables
Filters / Plugins	
	<ul> <li>Populate, manipulate and manage data in variables using filters and plugins.</li> </ul>
Modules	
	<ul> <li>Introduction to modules</li> </ul>

Module	Content	
	◆ Modules in playbooks	
	<ul> <li>Creating a custom module (using ansible-core &amp; python)</li> </ul>	
	Testing our module using Playbook	
Playbooks		
	Sample Ansible Playbook	
	◆ Ansible Playbook Format	
	◆ Ansible Modules	
	◆ Ansible Tasks	
	◆ Packages	
	◆ Commands:	
	♦ How To Run A Playbook	
	How to check the syntax of a Playbook	
	How to Run a playbook on multiple hosts/target hosts	
	◆ CI/CD with Ansible	
Roles		
	◆ What are role	
	Define and build roles	
	<ul> <li>Using Roles in Playbooks</li> </ul>	
	◆ Define	
	◆ Execute	
	Manage Roles	
Templates		
	Template introduction	
	<ul><li>Jinja2 templates</li></ul>	
	◆ Conditions	
	◆ Facts	
	◆ Loops	
	◆ Variables	
Galaxy		
Hand-On		
	Hands-on during the different modules	

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