

Ansible Course

Course Duration: 40 Hours



Class No	Module Details	Duration		
Module Name: Introduction to Ansible				
01	 What is Ansible? Why do we require Ansible? Ansible Architecture How Ansible works? Benefits of using Ansible 	02 Hours		
	 Push Based VS Pull Based approach • 			
Module Name: Installation & Configuration				
02	 Install and configure Ansible control node Ansible configuration files Configure nodes with passwordless authentication Create and update inventory file Creating Inventory Groups Hands on Lab 01 	03 Hours		
	Module Name: Ansible command line tool			
03	 Ansible common terms Ansible ad-hoc commands Why use ad hoc commands? Use cases for ad hoc tasks How to execute ad-hoc commands. Ad-hoc command syntax Hands on Lab 02 	03 Hours		
Module Name: Ansible Modules				
04	 What is Ansible Module List of Ansible Modules Ansible commands using different modules Overview of YAML syntax Hands on Lab 03 	03 Hours		
Module Name: Ansible Playbooks				
05	What is Ansible PlaybooksHow to write Playbooks			



	 Various example of Playbooks 	03 Hours		
	Executing Playbooks			
	Hands on Lab 04			
	Module Name: Variables and Facts			
	Using variables			
06	Creating valid variable names			
00	Different types of variables			
	 Applying Variables to Groups and Hosts 	03 Hours		
	Variable Scope			
	 Using Variables to Control Tasks 			
	Ansible Facts			
	Hands on Lab 05			
Module Name: Script and Shell module				
	Execute shell commands on targets			
07	Writing a bash script			
	Runs a local script on a remote nodes			
	 Install PHP and Apache2 server on a remote node using the Script Module 	02 Hours		
	 Run a Python script on a remote node using the Script Module 			
	Hands on Lab 06			
	Module Name: Condition and looping			
	What is looping in Ansible?			
08	What is the condition in Ansible?			
00	 How to use condition and looping in Playbooks 			
	Ansible tags	02 Hours		
	Hands on Lab 07			
	Module Name: Ansible vault			
	Ansible Vault Purpose			
09	Encrypt and Decrypt Files	02 Hours		
	Create Vault Password Files	02 110013		
	Encrypting existing files			
	Viewing encrypted files			
	Editing encrypted files			



	Hands on Lab 08	
	Module Name: Error Handling	
10	Tasks and Handler in PlaybooksHandling errors in Ansible	
	Ignoring failed commands	02 Hours
	Ignoring unreachable host errors	
	Aborting a play on all hosts	
	Hands on Lab 09	
	Module Name: File separation & Special variables	
11	Ansible File Separation	
11	Special Variables	03 Hours
	Magic Variables	
	List of magic variables	
	Connection Variables	
	Hands on Lab 10	
	Module Name: Ansible Roles	
10	Create and Use Roles	
12	Getting Roles from Ansible Galaxy	03 Hours
	 Using Role Handlers, Files, and Templates 	05 110013
	Hands on Lab 11	
	Module Name: Ansible with docker container	
13	Build Docker image using Ansible ad hoc command	
15	Run Docker Container using Ansible ad hoc command	03 Hours
	Build and Run Docker container using Playbook	
	Modify container configuration using Playbook	
	 Ansible Docker Connector Hands on Lab 12 	
	Module Name: Ansible for provisioning Infrastructure	
	Launch instances in AWS Cloud and install Ansible	
14	 Create IAM Role, SSH Key Pair, attached with Node 	
	 Write Playbooks for launching instances. 	03 Hours
	 Write Playbooks to start and stop instances. 	
	 Hands on Lab 13 	
	Module Name: Application deployment with Ansible	



15	 Hands on Lab 15: Demo CICD with jenkins, Ansible, Docker and github 	03 Hours			
Details					
	Total Course Length	40 Hours			