

DEVOPS (DOCKER & KUBERNETES) TRAINING

Duration: 2 Weeks

Starting date: 4th November 2024

About the Course

The DevOps training course will help you become fully proficient and deploy the DevOps principles and tools in a software enterprise. You will be learning the techniques of successfully integrating the IT development and IT operation departments. This DevOps instructor-led training will help you understand how to communicate, collaborate and automate key processes and systems in order to create synergies for creating faster and better software solutions.

Why take this Course?

For very long times the development and the operations teams of any software enterprise have stayed at arm's length. But this organizational cultural shift thanks to DevOps a lot of changes are happening in forward-thinking enterprises. Learning DevOps will help you master all the skills needed in order to successfully build, operate, monitor, measure and improve the various processes in IT enterprises by better integrating development and operations. You will grab the best jobs after finishing the DevOps training course.

Course Content

Module /Topic	Hands on exercises		
 Introduction & Set Up Introduction Installation of Basic Software 	Basic Installations		
 The Basics (Linux, Networking, Applications) Linux CLI Linux Commands Networking Basics Basic Routing and Switching DNS Java Project (Spring Boot Application) Java – Build & Packaging 	 Implement Basic Linux Commands Writing a Basic Application in either Java or Node (Any preferred programming Language) 		



Node JS - NPM	
 GIT Introduction to GIT Initializing GIT Repository GIT Branches (checkout, push, merging) GIT Remote Repositories 	Installation of GIT GIT CLI Local and Remote Repositories exercise
Jenkins Introduction to Jenkins Searching through Plugins Install Jenkins on a VM Jenkins CLI Installing Plugins Administering Jenkins Backup and Restore Jenkins Pipelines Build a CI pipeline	 Installing Jenkins Working with Jenkins CLI Installing Jenkins Plugins System Administration with Jenkins Write a Jenkins file for a Pipeline
 Build a CD pipeline Full pipeline deployment Docker Docker Overview Basic Docker Commands 	Installation of Docker Working with images and containers
 Basic Docker Commands Docker Run Docker Images Docker Engine & Networking Docker Registry Kubernetes	Docker CLI Minikube setup
 Kubernetes Overview Containers Overview Container Orchestration Kubernetes Architecture Minikube Setup Kubernetes Concepts - PODS Basics of Networking in Kubernetes 	 PODS with YAML Replica Sets



 YAML introduction Introduction to YAML Microservices Architecture Microservices Architecture Deploying sample app on Kubernetes 	Writing YAML configuration Files
Ansible Ansible Introduction Ansible Inventory Ansible Playbooks Ansible Modules Ansible Variables Ansible Conditionals Ansible Loops and Roles Terraform Introduction to Terraform Hashicorp Configuration Language (HCL) Terraform Provuders Multiple Providers Using Input Variables Terraform State Terraform Commands LifeCycle Rules	 Installing Ansible Ansible Concepts Ansible Conditionals, Loops and Roles Installing Terraform HCL Basics Configuration Directory Understandig Variable Block Terraform Commands
Introduce a Lab Project that will cover all the features of the course content covered	

B. TRAINING DATES AND VENUE



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A certificate of attendance with will be awarded to all participants.

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