DevOps Engineer

Why Learn DevOps Engineer?

This training would enable you to grasp the concepts of how DevOps transformation, It will help you focus on value and streamline delivery and also learn about the common infrastructure servers, scalability, and availability.

DevOps jobs are highly paid and in great demand, so start on your path today.

Audience Profile :

- Software Developers
- Technical Project Managers
- Architects
- Operations Support
- Deployment engineers
- IT managers
- Development managers

Prerequisites:

- Working Experience in the Software Development Field.
- Basic Knowledge of IT Networking and Infrastructure.

Course Overview:

- DevOps is a methodology, that blurs the line between a Developer and a SysOps people.
- It is evolved from the Agile methodology, DevOps takes it to the next step by even making the Ops part of the company Agile.
- DevOps is a set of software development practices that combines software development and information technology operations to shorten the systems development life cycle while delivering features, fixes, and updates frequently in close alignment with business objectives.
- This training would enable you to grasp the concepts of how DevOps transformation, It will help you focus on value and streamline delivery and also learn about the common infrastructure servers, scalability, and availability.
- In This course you will Learn:
- Linux, DevOps Lifecycle, Delivery Pipeline Managing Source Code – Git and GitHub Using Build tools, Maven, POM Containerization using Docker Continuous Integration using Jenkins Continuous Testing using Junit and Selenium Kubernetes Configuration Management using Chef Configuration Management using Ansible Continuous Monitoring using Nagios AWS Cloud architecture Terraform Infrastructure as Code Setting Resource Dependencies

DevOps Engineer Outline:

- Module 0 – DevOps Perquisites
- Linux Basics
- Application Basics
- Networking Basics
- Web Servers Basics
- Module 1 - DevOps Essentials
- Why DevOps?
- What is DevOps?
- Agile and DevOps
- Module 2 - Managing Source Code - Git and GitHub
- Overview of Version Control systems
- Central vs Distributed Control systems
- Introduction to Git
- Module 3 – Understanding and using Build tools
- Overview of Various Build tools
- What is Maven
- Maven Plugins
- Module 4 - Configuration Management using Ansible
- Overview of Configuration Management
- Introduction to Ansible
- Ansible Architecture
- Module 5 - Containerization basics using Docker
- What and Why of Containers
- Difference between VMs and Containers
- Docker Architecture and Components
- Module 6 - Docker Advanced
- Docker Files
- Docker Compose
- Module 7 - Continuous Integration using Jenkins
- Overview of Continuous Integration
- Overview of Jenkins
- Module 8 – Introduction to Kubernetes
- Overview of Continuous Integration
- Overview of Jenkins
- Module 9 - Continuous Monitoring using Prometheus
- Introduction to Systems and Service Monitoring
- Introduction to Prometheus
- Module 10 - DevOps Project "Build Real World application"
- Introduction to Systems and Service Monitoring
- Introduction to Prometheus
- Module 11 -Define the AWS Cloud
- Identify different types of cloud deployment models
- Define the benefits of the AWS cloud including
- Module 12 -Explain the different cloud architecture design principles
- Identify different types of cloud deployment models
- Define the benefits of the AWS cloud including
- Module 13 – Terraform
- Module 14 -Setting Resource Dependencies

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