

Who can learn? -

- ➔ Windows, Linux, Solaris, Unix Administrators
- ➔ CISCO or CCNA or CCNP or Networking Administrators
- ➔ Developers / Programmers from .Net / Java / Ruby on Rails / Groovy on Grails / C++ or any other programming backgrounds.
- ➔ Middleware tool consultant or Integration specialists using BizTalk server, Tibco, IBM SOA, Oracle SOA, IBM Gentran, EAI etc.
- ➔ Data Analysts / Data Scientists / BI & Reporting Analysts from any technology background
- ➔ M.Sc, B.Tech, B.E, MBA, BBA, MCA, Fresher / Experienced people
- ➔ Non IT professionals aspiring to get into IT industry.
- ➔ Any people who need a job instantly with any qualification and from any background.

Trainer: *RK, Certified, Senior Project Lead having 10years of Industry experienced corporate trainer.*

Training Objectives: Training includes Training on concepts, Assignments, Live Case Studies, Real-time Working Scenarios, Expertise on **DevOps** tools, Software Cloud Instance Access Assistance, End-to-end Resume building & Presentation, Genuine FAQs & Generalized worked-out answers, Informative material documents, Tech support, Certification Guidance, Mock Interviews and INTERNAL REFERENCES in CMM level companies with 100% Placement Assistance.

Courseware: Our **DevOps** content industries requirements driven and prepared to balance Job descriptions for interviews.

Module -1: DevOps Introduction & Essentials

- ✓ What is DevOps (Brief Introduction)
- ✓ History Of DevOps
- ✓ DevOps And Software Development Life Cycle
- ✓ DevOps Top objectives
- ✓ Dev And Ops Concepts
- ✓ DevOpsDefinations
- ✓ DevOps Infrastructure As a code
- ✓ Tools Are Available in DevOps Culture (GIT,GENKINS,ANT,MAVEN,DOCKER,CHEF,PPPET,ANSIBLE,NAGIOS)
- ✓ Prerequisites For DevOps
- ✓ Traditional Waterfall Methodology And Agile Methodology
- ✓ SDLC process With real time Examples
- ✓ Cloud introduction **Overview of (SaaS, PaaS, IaaS)**
- ✓ Cloud usage in devops

Module -2: Version Control System (Git)

- ✓ Introduction to VCS and GIT
- ✓ Version Control System
- ✓ Diff Between CVCS and DVCS
- ✓ What is Git?
- ✓ Diff between SVN and GIT

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- ✓ Git repositories
- ✓ Work with branches and Merging
- ✓ Work with Tags
- ✓ Work with **revert, reset and checkout**
- ✓ GIT File workflow
- ✓ Important GIT Commands

Installation and configuration of the Git command line tooling

- ✓ Windows
- ✓ Ubuntu
- ✓ Working with GIT HUB
- ✓ Creation of GIT HUB Account
- ✓ Data Recovery for GIT

Module -3: Continuous Integration (Jenkins)

- ✓ An Overview of Jenkins
- ✓ Getting Started with Jenkins
- ✓ Installation of Jenkins and configuration about required tools with jenkins
- ✓ Plugins and its uses
- ✓ Setting Up Your Build Jobs
- ✓ Setting up Build Jobs and Security
- ✓ Implementing Automated Testing
- ✓ Using Metrics to Improve Quality
- ✓ Nodes and Master-Slave Configuration
- ✓ Maintain and Use Jenkins
- ✓ Performing Automated Deployment and Continuous Delivery
- ✓ Build Setup in Jenkins
- ✓ Test Automation
- ✓ Security in Jenkins
- ✓ Notification Mail System

Module-4:Maven (Build Tool)

- ✓ **Maven – Overview**
- ✓ **Maven - Environment Setup**
- ✓ Maven Project Explanation
- ✓ Maven - Build Life Cycle

Module-5: Containerization using Docker

- ✓ Docker Basic Overview
- ✓ Docker Fundamentals
- ✓ Introduction to Docker
- ✓ Installation and configuration of Docker.

- ✓ Work with Docker files
- ✓ Work with images.
- ✓ Work with containers
- ✓ Docker storage drivers.
- ✓ Docker container Networking.
- ✓ Create dockerized web applications.
- ✓ Docker Commands and use cases.
- ✓ Basics of cloud computing and virtualization.
- ✓ What and Why of Containers
- ✓ Image Distribution
- ✓ Docker Volumes

Module-6: Configuration management using Ansible

- ✓ Overview of Ansible
- ✓ What is configuration Management?
- ✓ AnsibleArchitecture
- ✓ Ad-hoc Commands
- ✓ Ansible Installation
- ✓ Configuration of Ansible setup in AWS environment
- ✓ Working with Ansible Playbooks
- ✓ Working with Ansible Modules
- ✓ Working with Ansible Roles
- ✓ Different Roles and Command Line usage
- ✓ How to deploy website using Ansible
- ✓ Introduction about Python script and YAML Language

Module -7: Continuous Monitoring using Nagios

- ✓ Nagios Introduction.
- ✓ Basics of Nagios.
- ✓ Nagios Configuration and start up.
- ✓ Nagios Plugins and Objects.
- ✓ Nagios Command and Notifications.
- ✓ Nagios Integration
- ✓ Combining Jenkins
- ✓ Docker and Ansible
- ✓ Nagios Plugins, Nagios Objects
- ✓ Nagios Commands
- ✓ Nagios Notification

Module -8: Cloud Computing (AWS)

- ✓ Introduction of Cloud Computing
- ✓ What is cloud computing?
- ✓ Why cloud Computing
- ✓ Cloud Computing Charecterstics



Devops

- ✓ Type of clouds
- ✓ Cloud Performance
- ✓ Cloud Infrastructure
- ✓ Cloud Computing Open issues
- ✓ Cloud Articles
- ✓ Battle in the cloud
- ✓ Introduction about AWS

