

DEVOPS COURSE SYLLABUS

The course syllabus for DevOps from Softlogic is the latest and best. We take every step to ensure that it is prepared keeping in mind the industry requirements. We designed the syllabus to suit real world requirements for the beginner level and advanced level.

Introduction to Devops

- What Is Devops
- History of Devops
- Devops definition
- DevOps Main Objectives
- DevOps and Software Development Life Cycle
 - Waterfall Model
 - Agile Model
- Continuous Integration & Deployment
 - Jenkins
- Containers and Virtual Development
 - Docker
 - Vagrant
- Configuration Management Tools
 - Ansible
 - Puppet
 - Chef

Cloud Computing

- What is Cloud?
- Evolution of Cloud Computing
- IAAS (Infrastructure as a Service)
- SAAS (Software as a Service)
- PAAS (Platform as a Service)
- Private, Public and Hybrid Cloud
 - Amazon Web Services
 - Microsoft Azure
 - Google Cloud Services

LINUX Basic and Admin

- Linux OS Introduction
- Importance of Linux in DevOps
- Linux Basic Command Utilities
- Linux Basic Command Utilities
- Linux Administration
- Environment Variables
- Networking
- Linux Server Installation
- RPM and YUM Installation

Shell Scripting

- Introduction
- Variables
- Flow Controls
- Loops
- Functions
- Lists
- Manipulating Strings
- Reading and Writing Files

Continuous Integration – Jenkins

- Introduction to Jenkins
- Continuous Integration with Jenkins
- Configure Jenkins
- Jenkins Management
- Maven Build Scripts
- Support for the GIT version control System
- Different types of Jenkins Jobs
- Jenkins Build Pipe Line
- Jenkins Master & Slave Node Configuration
- Jenkins Workspace Management
- Securing Jenkins
- Authentication
- Authorization Confidentiality

- Creating Users
- Jenkins Plugins
- Installing Jenkins Plugins

Version Control-GIT

- GIT Features
- 3-Tree Architecture
- GIT – Clone /Commit / Push
- GIT Hub Projects
- GIT Hub Management
- GIT Rebase & Merge
- GIT Stash, Reset, Checkout
- GIT Clone, Fetch, Pul

ANSIBLE

- Introduction to Ansible
- Ansible Server Configuration
- Infrastructure Management
- SSH Connection in Ansible Master
- YAML Scripts
- Host Inventory
- Hosts and Groups
- Host Variables o Group Variables
- Ad-hoc Commands
- Playbooks
- Variables
- Conditionals
- Loops
- Blocks
- Handlers

Docker

- How to get Docker Image?
- What is Docker Image
- Docker Installation
- Working with Docker Container
- What is Container o Docker Engine
- Crating Containers with an Image
- Working with Images
- Docker Compose
- Docker Hub
- Docker Trusted Registry
- Docker swarm
- Docker attach
- Docker File & Commands