

DEVOPS COURSE SYLLABUS

By Softlogic Systems

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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
- Public Clouds
 - Amazon Web Services
 - Microsoft Azure
 - Google Cloud Services

LINUX Basic and Admin

- Linux OS Introduction
- Importance of Linux in DevOps
- Linux Basic Command Utilities

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- 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
- Positional Parameters

Continuous Integration – Jenkins

- Introduction to Jenkins
- Continuous Integration with Jenkins
- Configure Jenkins
- Jenkins Management
- Scheduling build Jobs

- POLL SCM
 - Build Periodically
- Maven Build Scripts
- Support for the GIT version control System
- Different types of Jenkins Jobs
- Jenkins Build Pipe Line
 - Parent and Child Builds
 - Sequential Builds
- Jenkins Master & Slave Node Configuration
- Jenkins Workspace Management
- Securing Jenkins
 - Authentication
 - Authorization
 - Confidentiality
 - Creating Users
- Jenkins Plugins
 - Installing Jenkins Plugins
 - SCM plugin
 - Build and test

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, Pull

Build tool- Maven

- Maven Installation
- Maven Build requirements
- Maven POM Builds (pom.xml)
- Maven Build Life Cycle
- Maven Local Repository (.m2)
- Maven Global Repository

- Group ID, Artifact ID, Snapshot
- Maven Dependencies
- Maven Plugins

ANSIBLE

- Introduction to Ansible
- Ansible Server Configuration
- Infrastructure Management
- SSH Connection in Ansible Master
- YAML Scripts
- Host Inventory
 - Hosts and Groups
 - Host Variables
 - Group Variables
 - Host and Group Specific Data
- Ad-hoc Commands
- Playbooks
 - Variables
 - Conditionals
 - Loops
 - Blocks
 - Handlers
 - Templates
- Modules
 - Core Modules
 - Extra Modules
- Ansible Roles

Docker

- How to get Docker Image?
- What is Docker Image
- Docker Installation
- Working with Docker Containers
 - What is Container
 - Docker Engine
 - Creating Containers with an Image
 - Working with Images
- Docker Command Line Interface
- Docker Compose

- Docker Hub
- Docker Trusted Registry
- Docker swarm
- Docker attach
- Docker File & Commands



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