Devops Course Content

Logiclabs Technologies Private Limited
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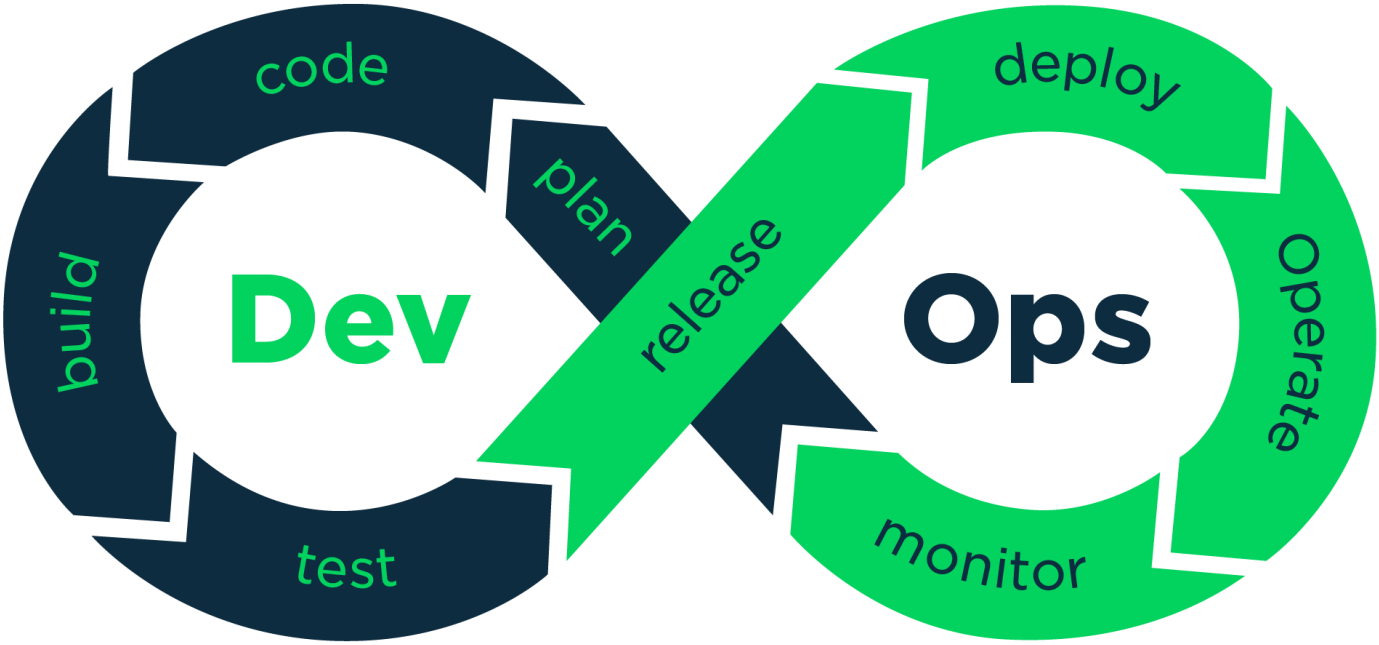

Trainer: Sunil Kumar Koppavarapu

Duration: Near about 45 Days

Each Session: Near about 1 Hour

For More Details Give a Missed call to: 080-35375141

For Inquiry send an email to support@logiclabstech.com

Devops Course Content

- **Introduction to DevOps**
  - Why DevOps and roles and responsibilities
  - How DevOps and Cloud exists in today's world
  - What is Continuous Integration and Delivery how it's related to DevOps
- **Linux**
  - Linux Introduction, Principles and Linux distro
  - Command line utilities and basic commands
  - Linux File system introduction
  - Text Editors
  - Filters and Redirections
  - Users & Groups and Permissions
- **Git**
  - What is version control system?
  - Compare Git with others and why is it called Distributed Version Control System?
  - Create an Local Git Repository
  - Operations like commit, pull, push, clone, merge, cherry pick and rebase
  - Git Branches and how to use
  - Git Hub a remote repository
- **Maven**
  - What are build tools?
  - GAV Coordinates in Maven
  - Build a Java Application using Maven
  - Dependency Management
  - Plugins as a building block in maven build
  - Building and deploying java web application using maven
- **Jenkins**
  - Introduction to Continuous Integration.
  - Build & Release and relation with DevOps
  - Why continuous integration
  - Jenkins introduction and setup
  - Jenkins projects/jobs
  - Jenkins plugins

Devops Course Content

- Jenkins administration
- Users
- Nodes/Salves
- Managing plugins
- Managing Software Versions

➢ **Docker**

- Introduction to Docker
- Virtualization and Containerization differences
- Docker Installation
- Docker CLI
- Run your first Docker Container
- Copy Files in the Docker Image
- Docker, Maven and Jenkins
- Tag and share Docker images
- Database Installation with Docker Image
- Learning Docker File
- Creating our own Docker Image
- Docker Networking

➢ **Ansible**

- Ansible Introduction & Setup
- Foundation
- Modules and Ad hoc Commands
- YML Scripting
- Play Book for CM automation
- Roles

➢ **Kubernetes**

- Introduction to Kubernetes
- Understanding the components of Kubernetes Master (Control Plane)
- Understanding the components of Kubernetes Node (Minion)
- Working with Pod
- Elements used in definition file.
- Creating Replication Controller.
- Creating Replica Set.

Devops Course Content

- Working with Deployment Object
- Creating Service Object

➢ **Nagios**

- Installation of Nagios
- Configuring Nagios
- Monitoring with Nagios