Logiclabs Technologies

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Devops With AWS

**DEVOPS with AWS Course Content**

**Duration: 40 Days**

**Each Session: 1 Hour**

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| 1. **Devops Introduction** |

* 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?

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| 1. **Linux** |

* Linux Introduction
* Command line utilities and basic commands
* Linux File system introduction
* Text Editors
* Filters and Redirections
* Users & Groups and Permissions

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| 1. **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
* GitHub a remote repository

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| 1. **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

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| 1. **Jenkins** |

* Introduction to Continuous Integration.
* Build & Release and relation with DevOps
* Why continuous integration
* Jenkins introduction and setup
* Jenkins projects/jobs
* Jenkins plugins
* Jenkins administration:
* Users
* Nodes/Salves
* Managing plugins
* Managing Software Versions

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| 1. **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 DockerFile
* Creating our own Docker Image
* Docker Networking

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| 1. **Ansible** |

* Ansible Introduction & Setup
* Foundation
* Modules and Ad hoc Commands
* YML Scripting
* PlayBook for CM automation
* Roles

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| 1. **Nagios** |

* Installation of Nagios
* Configuring Nagios
* Monitoring with Nagios

**\*\*\*\*\*Thank You\*\*\*\*\***