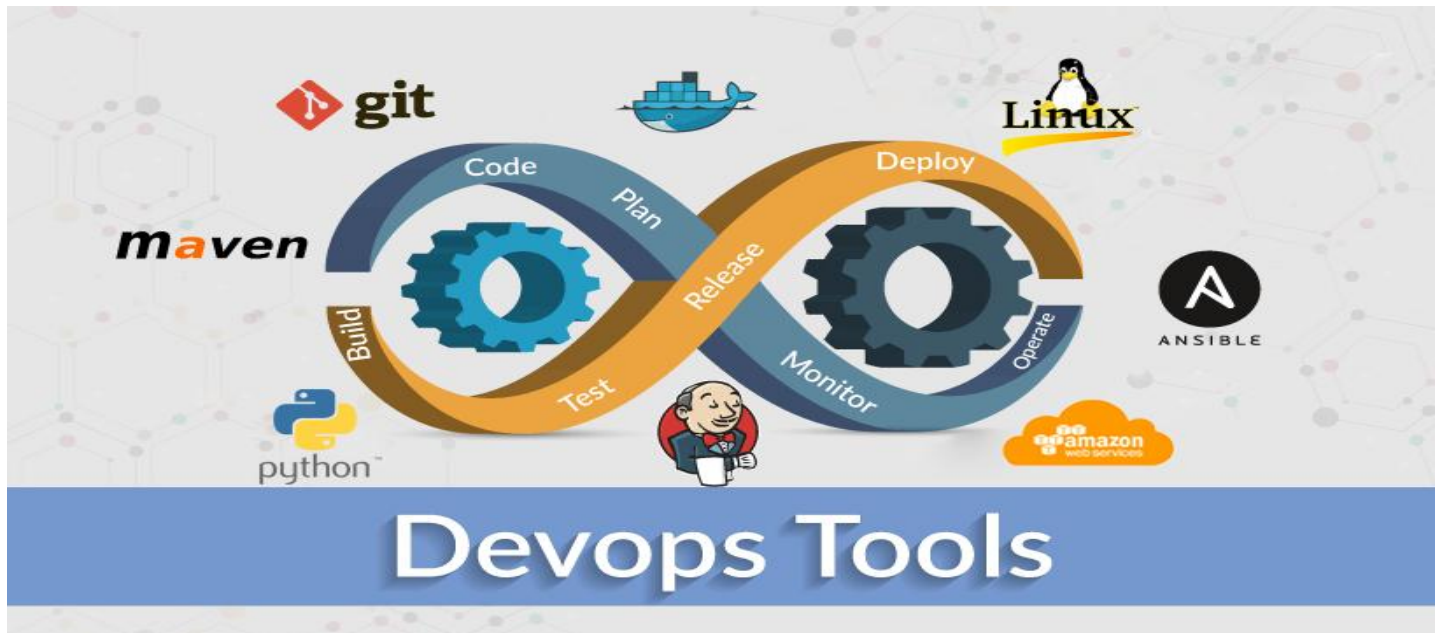




LEARN, THINK, INNOVATE



Overview

Let eMexo Technologies **Best DevOps Master Program Training in Electronic City Bangalore** take you from the fundamentals to expert-level concepts in DevOps. Our DevOps Master Program Certification Training Course in Electronic City Bangalore has been designed to meet the latest market trends and to understand the importance of DevOps. This course will enable you to learn how DevOps can help focus on value and streamline delivery, while also learning about common infrastructure servers, availability, and scalability, another feature of this training program. Here are the major topics we cover under this DevOps Master Program course Syllabus: **Linux Administration, AWS, Python, DevOps, GIT – A version control tool, Jenkins – Continuous integration, Docker – A containerization technology, Ansible – A configuration Management, and DevOps on Cloud.** Each topic will be covered in a practical way with examples for our DevOps Master Program Course in Electronic City Bangalore.

All the topics will be covered with Practical and hands-on training. Our trainers have industry experience with live project experience in cutting-edge technologies they teach. We hire only the Best DevOps Master Program industry specialists as trainers for our **DevOps Master Program Certification Training in Electronic City Bangalore.**

If you are looking for a DevOps Master Program Certification Course in Electronic City Bangalore, eMexo Technologies is the Best DevOps Master Program Training Institute in Electronic City Bangalore. Come over to our training institute for a free demo class. Let our trainer give you a demo on DevOps Master Program and only then do you make the decision to enroll in the training program.

Training Features

Real-life Case Studies

Do a real-life case study to understand the usage in real-world scenarios.

Assignments

Each class will be followed by a practical assignment which that can be completed before the next class.

Preparation for interview

Our trainers are professionals working in multinational corporations. They are experts in their field and know exactly what the interviewer will look for in the candidate. Experienced trainers not only share interview questions but also conduct mock interviews to help prepare for the actual interview.

Key Features

eMexo Technologies offers the **Best DevOps Master Program Training Course in Electronic City Bangalore** with the TOP industry expert trainers.

Here are the key features.

- ★ Free Demo Class Available
- ★ Practical Approach
- ★ Expert & Certified Trainers
- ★ 100% Job Oriented Training
- ★ Real World use cases and Scenarios
- ★ Completed 500+ Batches
- ★ Certification Guidance

Unit 1: Linux Administration

Introduction to Linux

Open Source Philosophy

Distributions

Embedded Systems

Command Line Basics

Basic Shell

Command Line Syntax – ls

Command Line Syntax – \$PATH, Case Sensitivity

Command Line Syntax – Basic Commands

Command Line Syntax – uname

Command Line Syntax – Command History, Command Completion

Command Line Syntax – cd and pwd

Shell Configuration Files

Variables – Environment / System Variables

Variables – User Defined

Globbering

Quoting

Formatting Commands

Working with Options

Using the Command Line to Get Help

Man

Info

locate, find, whereis, and using /usr/share/doc/

Exercise: Man Page Walkthrough

Exercise: Basic Command Line

Using Directories and Listing Files

The Linux File System

Files and Directories

Hidden Files and Directories

Home

Absolute and Relative Paths

Exercise: Maneuvering the Linux File System

Creating, Moving and Deleting Files

Case Sensitivity

Simple Globbing and Quoting

The Power of the Command Line

Archiving Files on the Command Line

Archives, Compression

Searching and Extracting Data from Files

Commands (Revisited)

Command Line Pipes

I/O Redirection

Regular Expressions

Exercise: Practicing with Pipes and Grep

Turning Commands into a Script

Basic Text Editing

Basic Shell Scripting

Basic Shell Scripting, Continued

Exercise: Using the vi Text Editor

The Linux Operating System

Choosing an Operating System

Windows, Mac, and Linux Differences

Distribution Life Cycle Management

Understanding Computer Hardware

Hardware

Where Data is Stored

Kernel

Processes

syslog, klog, dmesg

/lib, /usr/lib, /etc, /var/log

Your Computer on the Network

Internet, Network, Routers

Domain Name Service and the Default Gateway (Network Router)

Network Configuration

Security and File Permissions

Basic Security and Identifying User Types

Root and Standard Users

System Users

Creating Users and Groups

User IDs

User Commands

Group Commands

Exercise: Managing User Accounts

Exercise: Creating User Groups

Managing File Permissions and Ownership

File/Directory Permissions and Owners

Special Directories and Files

Symbolic Links

System files, Special Files, and Sticky Bits

Hands-On

Unit 2: AWS

Amazon EC2

Amazon Elastic Load Balancer

Amazon Route 53

Amazon VPC

Amazon Simple Storage Service (Amazon S3)

Amazon Elastic Block Store (Amazon EBS)

Amazon Content Delivery Network (Amazon CloudFront)

Amazon Relational Database Service (Amazon RDS)

Amazon DynamoDB

Amazon ElastiCache

Amazon Simple Notification Service (SNS)

Amazon CloudWatch

Amazon CloudTrail

Amazon Simple Email Service (Amazon SES)

AWS Identity and Access Management (IAM)

Amazon Command Line Interface API

S3-Browser

Hands-On

Unit 3: Python

Introduction to Python

Memory management and Garbage collections

Statements and Syntax

File Operations

Functions

Modules and Packages

Classes

Exception Handling

Advanced Concepts

Django

Hands-On

Unit 4: DevOps

Introduction to DevOps

DevOps Principles in detail

DevOps Engineer Skills in the market

Knowing DevOps Delivery Pipeline

Market trend of DevOps

DevOps Technical Challenges

Tools we use in DevOps

Hands-On

Unit 5: GIT – A version control tool

Knowing about Version control

Git – A CLI

Essentials of GIT in industry

Installing Git

First-Time Git Setup

Getting a Git Repository

Working with various commands in GIT

Recording Changes to the Repository

How to check the Status of Your Files

How to track New Files

Staging our modified files

Ignoring Files from GIT

Viewing Your Unstaged and Staged Changes

How to commit Your Changes

Skipping the Staging Area and commit

Removing Files from GIT

Viewing the Commit History

Limiting Log Output

Using a GUI to Visualize History

Undoing Things

Changing Your Last Commit

Unstaging a Staged File

Unmodifying a Modified File

Working with Remotes

Showing Your Remotes

Adding Remote Repositories

Fetching and Pulling from Your Remotes

Pushing to Your Remotes

Inspecting a Remote

Removing and Renaming Remotes

Branching and Merging in Git

What a Branch Is

Basic in Branching and Merging

Branch Management in GIT

Branching Workflows and its usage

Remote Branches – create and delete

Rebasing

Git workflows

Git cheat sheet

Hands-On

Unit 6: Jenkins – Continuous integration

Essentials of Continuous Integration

An example scenario where CI is used

Know about Jenkins and its architecture in detail

Jenkins tool Management in detail

Installing Jenkins

Post-installation setup wizard

Unlocking Jenkins

Customizing Jenkins with plugins

Creating the first administrator user

Know about User management in Jenkins

Authentication

Jenkins own database user creation

Options to enable integration with LDAP

Authorization

Matrix based authorization

Project based authorization

Overview of Maven

Maven project structure

Maven plugins

Project Object Model (POM) – the fundamental unit of work in Maven project

Maven build lifecycle

Adding external dependencies to maven pom.xml

Maven build and test project

Creating jobs and automatic build settings

What is Jenkins Pipeline?

Why Pipeline?

Integration with GIT

How to enable project-based authorization for a job

Source code management while creating jobs

Triggering automated build

Maven job setup

Know about post-build options for jobs like notifications, trigger another build, publishing reports, etc.

Adding a slave node to Jenkins

Building Delivery Pipeline

Notification settings in Jenkins

Plugin management in Jenkins

Hands-On

Unit 7: Docker – A containerization technology

Introduction to Docker

Real-world Shipping Transportation Challenges

Introducing Docker and its technology

Understanding of Docker images and containers

Working with container

How to Share and copy a container

Container Life Cycle

How to use Base Image and customize

Creation of Docker File

How to Publish Image on Docker Hub

Introduction to Docker Networking

Network Types in docker technology

Docker Container Networking

Docker Compose – An introduction

Docker Swarm – An introduction

Use Docker Compose to create PHP, WordPress, and MySQL

How to Start Containers on a Cluster with Docker Swarm

Creating and Scaling an application in Docker swarm

Hands-On

Unit 8: Ansible – A configuration Management

Introducing Ansible – A configuration management tool

Basics / What Will Be Installed

Understanding Ansible architecture

Control Machine Requirements

Managed Node Requirements

Inventory

Hosts and Groups

Host Variables

Group Variables

Learn various ansible Modules

How to use ad hoc commands

Parallelism and Shell Commands

File Transfer

Managing Packages

Users and Groups

Deploying From Source Control

Managing Services

Introduction to YAML script

Introduction to Playbooks

Playbook Language Example – YAML

How to Write Playbooks

Tasks in Playbooks

Understanding about various tasks in playbook

Introduction to Handlers and variables

Learn about using handlers, variables in the playbook

Become (Privilege Escalation)

Role Directory Structure

Using Roles

Role Duplication and Execution

Role Default Variables

Role Dependencies

Role Search Path

Ansible Galaxy

Including and Importing

Includes vs. Imports

Importing Playbooks

Including and Importing Task Files

Including and Importing Roles

Writing a playbook to install and configure web servers and deploy an application

How to create Ansible Role and use it

Using an ansible role in playbook

How to use Ansible Galaxy to download roles.

Example – Install and use Jenkins roles from ansible galaxy

Hands-On

Unit 9: DevOps on Cloud

Essentials of Cloud computing.

Cloud and virtualization architecture

Cloud deployment architecture

Cloud providers – An overview

Why do we need DevOps on Cloud?

Introducing Amazon web services

Various AWS services for DevOps – An overview

DevOps using AWS – Demo

Hands-On

FAQs

1. How is the training organized? How much percentage is theoretical and how much is practical hands-on?

We at eMexo believe nothing beats hands-on practice when it comes to learning a concept. Our teaching methodology is 100% practical and hands-on oriented. You learn a concept, you practice it then and there with the trainer. We also give you assignments for each topic which you can practice at home and any doubts regarding the topic can be cleared with the trainer the next day.

2. What is the course duration? How and when do you plan to complete the course?

We generally cover our courses in 60 hours, however, we know that we can't put a hard-stop to learning with a number. Our trainer will make sure that you have learned everything that is part of the curriculum. This could mean 48 hours or 60 hours, doesn't matter.

3. What is the material provided in the training?

We have industry standard course material which is used by our trainers to train you. At the end of the training, apart from the notes which you have taken during the course, we will also provide you with the training material which was used. This training material includes the training content, interview questions, etc.

4. Do you help in preparing for the interview?

Our trainers are working professionals who work in MNCs. They are the experts in their domain and they know exactly what an interviewer looks into a candidate. Our expert trainers apart from sharing the interview questions will also conduct mock interviews to help you prepare for the real interview.

5. Who are your trainers?

Our trainers are industry experts who work in their respective technologies day in and day out. They work in MNCs and are technology experts within their organizations.

6. What is the total batch size per course?

We maintain a strict batch size of a maximum of 5 students. We also provide exclusive one-to-one training as well. Talk to our training partner to get more details.

7. Do you provide certification for the course?

Yes, at the end of training we provide a certification of completion.

8. Will I be joining a new batch or being merged with another batch?

You will be added to a new batch.

9. Is fast-track training available?

Yes, we also provide fast-track training for those who want to complete the course faster. The curriculum and the total hours required to complete the course will remain the same. However, the trainer will be spending more hours with you to complete the course.

10. Do you assist in job placement?

Our trainers are expert professionals in their organizations and they often act as the interviewer to hire new candidates. Our trainers will help you prepare your resume with industry standards. After all, they know exactly what to look for in a resume.

11. Timings for training - Regular training/weekend training?

We provide both regular and weekend training. Talk to our training partner to learn more about the timings.

12. Will you be working on a live project during training?

Yes, apart from doing the hands-on practice our trainer will also be taking a real-world project and working with you on the implementation.

13. What happens if I miss a class?

If you miss a class the content of that class will be taught to you again. With us, you might miss a class but not the content.

14. Can I attend a demo before the actual class?

Yes, absolutely! Talk to our training counselor on the phone at **+91-9513216462** or email us at **info@emexotechnologies.com** to arrange a free demo. You can also fill in the contact us form below and we will call you to discuss your training requirements.