

Linux, AWS and DevOps Training Course

Brochure

Course Content:

- ❖ **Module 1: Linux and System Administration**
 - ✓ **Linux OS Introduction**
 - Overview of Linux distributions
 - Basic Linux architecture
 - ✓ **Linux Commands**
 - Command-line basics
 - Navigating the file system
 - File and directory manipulation
 - ✓ **Server Administration**
 - Setting up and configuring Linux servers
 - User and group management
 - File permissions and security
 - ✓ **RPM and YUM Installation**
 - Package management with RPM
 - Using YUM for software installation and updates

- ❖ **Module 2: Cloud and AWS Services**
 - ✓ **Cloud Computing Overview**
 - Cloud computing models (IaaS, PaaS, SaaS)
 - Advantages of cloud computing
 - ✓ **AWS Services Overview**
 - Introduction to Amazon Web Services (AWS)
 - Key AWS services (EC2, S3, RDS, etc.)

- ❖ **Module 3: DevOps Fundamentals and CI/CD**
 - ✓ **DevOps Fundamentals**
 - Introduction to DevOps
 - The need for DevOps
 - Key principles of DevOps

- ✓ **DevOps in SDLC**
 - Integrating DevOps into the Software Development Life Cycle (SDLC)
 - Benefits of DevOps in SDLC
- ✓ **CI/CD Concepts**
 - CI/CD pipeline components
 - Automation and testing in CI/CD
- ✓ **Jenkins Basics**
 - Jenkins architecture
 - Setting up Jenkins
 - Running builds and tests
- ✓ **Build Job Scheduling**
 - Automating build job execution
 - Scheduling builds in Jenkins
- ✓ **Maven Integration**
 - Introduction to Maven
 - Using Maven for building Java projects
- ✓ **GIT Operations**
 - Version control with Git
 - Git branching and merging
 - Git best practices
- ✓ **GitHub Management**
 - Collaborative development with GitHub
 - Pull requests and code reviews
- ✓ **Module 4: Containerization and Orchestration**
- ✓ **Build Tool - Maven**
 - In-depth Maven usage
 - Maven plugins and dependencies
- ✓ **Ansible**
 - Introduction to Ansible
 - Infrastructure as Code (IaC) with Ansible
- ✓ **Docker**
 - Docker fundamentals
 - Creating and managing Docker containers
- ✓ **Kubernetes**
 - Introduction to Kubernetes
 - Container orchestration and scaling