



datamantra



DevOps

Introduction to DevOps, Basic to Intermediate

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Program Curriculum



Lesson 1

Introduction to DevOps & Version Control - 6 Hours

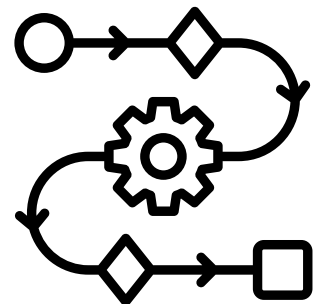
- What is DevOps? Agile vs DevOps
- DevOps culture, principles, CI/CD overview
- Introduction to Git & GitHub
- Branching strategies: Git Flow, Feature Branch
- Hands-On Lab:
 - Git install and configuration
 - Create and clone GitHub repo
 - Perform basic Git operations: commit, push, pull, merge



Lesson 2

CI/CD Concepts + Build Automation - 6 Hours

- CI/CD Pipeline Concepts
- Introduction to Jenkins
- Build automation with Maven/Gradle (for Java), npm (for Node.js)
- Introduction to YAML in CI/CD
- Hands-On Lab:
 - Install Jenkins locally or on a VM
 - Create a simple build job in Jenkins
 - Automate build for a sample app (Node.js or Java)



Program Curriculum



Lesson 3

Containerization with Docker & Orchestration Basics - 6 Hours

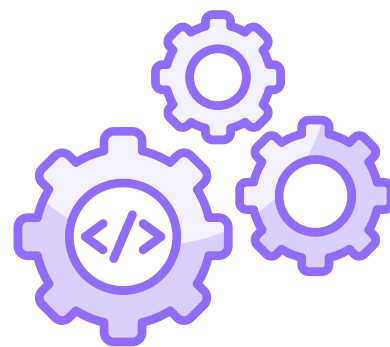
- Introduction to Containers & Docker
- Dockerfile, Images, Volumes, Networks
- Docker Compose basics
- Intro to Kubernetes (k8s) and Pods
- Hands-On Labs:
 - Install Docker, write a Dockerfile for an app
 - Build and run containers
 - Deploy multi-container apps with Docker Compose



Lesson 4

Infrastructure as Code & Monitoring - 6 Hours

- Infrastructure as Code (IaC): Intro to Terraform
- Basic Terraform commands and modules
- DevOps Monitoring: Prometheus, Grafana (intro)
- Logging & Alerting (concepts)
- Hands-On Labs:
 - Use Terraform to deploy an EC2 instance (or Azure VM)
 - Set up basic Prometheus + Grafana dashboard
 - Integrate Jenkins notifications via email/Slack



Its time to showcase what we have learnt so far..

- DevOps From Basics to Intermediate
 - Understanding concepts of DevOps
 - Results: Automation of infra provisioning and basic monitoring setup
- Hands on tasks on DevOps
 - Deploying a Dockerized app with Jenkins & Terraform
 - Results: Better understanding of DevOps practical concepts

CERTIFICATE OF ACHIEVEMENT



CERTIFICATE

OF ACHIEVEMENT

PROUDLY PRESENTED TO

Name Surname

HAS SUCCESSFULLY COMPLETED THE ONLINE COURSE

DevOps

He/She has excelled at Python Mastery by successfully completing all the assignments & modules associated with the program.

DATE:



Talun Sachdeva

AUTHORIZED SIGNATORY



MEET YOUR TUTOR



Abhishek Tiwari

Cloud Admin & DevOps Expert

Azure Cloud Consultant

[LinkedIn](#)

10+ years of academic and corporate training experience in Cloud, DevOps, Azure, IAC, Server Management & Cost Optimization and served as a guest lecturer for Tech. programs at University of Madhya Pradesh.

He has also delivered corporate and professional training programs, both onsite and offsite, specializing in Cloud, DevOps ,Azure, Terraform & Kubernetes.

He owns 10+ years of work experience as Technology Lead and in reputed organizations like in Accenture, Infosys, Sysfore & UST Global . He blends academic concepts with practical insights to help learners develop strong industry-relevant skills.

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OUR VISION

Help & Guide students globally with innovative, personalized education for empowered learning and especially in changing the Domain.

OUR MISSION

Empowering individuals worldwide, our mission is to provide accessible and top-quality education, fostering skills that drive career success and personal growth.

OUR STORY

Our story is one of dedication to shaping futures, breaking barriers, and creating a dynamic and easy learning environment for every student and Corporate professionals



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