سرفصـل های دوره آموزشی

دوره آموزش مهندسی دواپس (DevOps Engineering)

Linux Essentials

- **Overview of Linux**

- **Basic commands**

- **File system structure**

- **User and Group Management**

- **Permissions and ownership**

- **File Manipulation and Text Editors**

- **Processes and Services**

- **Managing services and daemons**

Networking Fundamentals

- **OSI model**

- **TCP/IP basics**

- **IP Addressing and Subnetting**

- **Switching and Routing overview**

DevOps Concepts

- **Introduction to DevOps**

- **DevOps principles and practices**

- **Collaboration and communication**

- **CI/CD Concepts**

- **CI/CD tools overview**

- **Source Code Management with Git**

- **Git basics and workflows**

- **Branching and merging**

- **Version Control Best Practices**

Docker

- **Introduction to Containers**

- **Docker architecture**

- **Docker installation and setup**

- **Creating and running containers**

- **Networking in Docker**

- **Data persistence with volumes**

- **Docker Compose**

Kubernetes

- **Introduction to Kubernetes**

- **Kubernetes architecture**

- **Deploying applications on Kubernetes**

- **Understanding pods**

- **Deployments in Kubernetes**

- **Networking in Kubernetes**

- **Introduction to Helm**

- **Creating and managing Helm charts**

- **Helm deployment strategies**

- **StatefulSets and DaemonSets**

- **Persistent Volumes and Claims**

- **RBAC (Role-Based Access Control)**

- **Pod security policies**

Ansible

- **Ansible basics and architecture**

- **Automating common tasks with Ansible**

- **Managing configurations with Ansible**

- **Writing Ansible playbooks**

- **Ansible Roles and Best Practices**

- **Ansible Vault for secrets management**

- **Ansible Tower overview**

GitLab

- **GitLab CI/CD introduction**

- **Setting up CI/CD pipelines in GitLab**

- **GitLab Runners and scaling CI/CD**

- **Integrating GitLab with Kubernetes**

- **Branching strategies**

- **CI/CD variables and secrets**

- **GitLab Security**

Monitoring

- **Monitoring introduction and policies**

- **Monitoring tools overview**