## **DEVOPS**

## **DAY 3-TASK**

## **DOCKER\_COMPOSE SETUP:**

- Install Docker and Docker Compose (sudo apt install docker-compose).
- Create a docker-compose.yml file with service definitions.
- Use docker-compose up -d to start services.
- Use docker-compose down to stop and remove services.

# Install Docker Compose
sudo apt install docker-compose -y

# Download the latest version of Docker Compose
sudo curl -L "https://github.com/docker/compose/releases/latest/download/docker-compose\$(uname -s)-\$(uname -m)" -o /usr/local/bin/docker-compose

# Make Docker Compose executable
sudo chmod +x /usr/local/bin/docker-compose

# Check Docker Compose version

docker-compose --version

# Example docker-compose.yml file

version: '3'

services:

web:

image: nginx:latest

```
ports:
   - 80:80
 db:
  image: mysql:latest
  environment:
   - MYSQL_ROOT_PASSWORD=secret
# Start services using Docker Compose
docker-compose up -d
# Execute a shell inside the database container
docker exec -it david-db-1 /bin/bash
# Access MySQL inside the container
mysql -u root -p
Minikube Installation & Setup:
# Download Minikube
curl -LO https://github.com/kubernetes/minikube/releases/latest/download/minikube-linux-amd64
# Install Minikube
sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64
# Start Minikube
minikube start
# Check Minikube status
minikube status
```

# Get running pods

kubectl get pod

# Get deployments

kubectl get deploy

# Get replicas

kubectl get replica

# Get detailed pod information

kubectl get pod -o wide



