AWS-DEVOPS

DATE	:	**20.05.2025**
DT/NT	:	**DT**
LESSON	:	**INTERNSHIP PROJECT**
SUBJECT:		**REAL ESTATE APPLICATION INTRO**
BATCH	:	**B 303**

REAL ESTATE APPLICATION

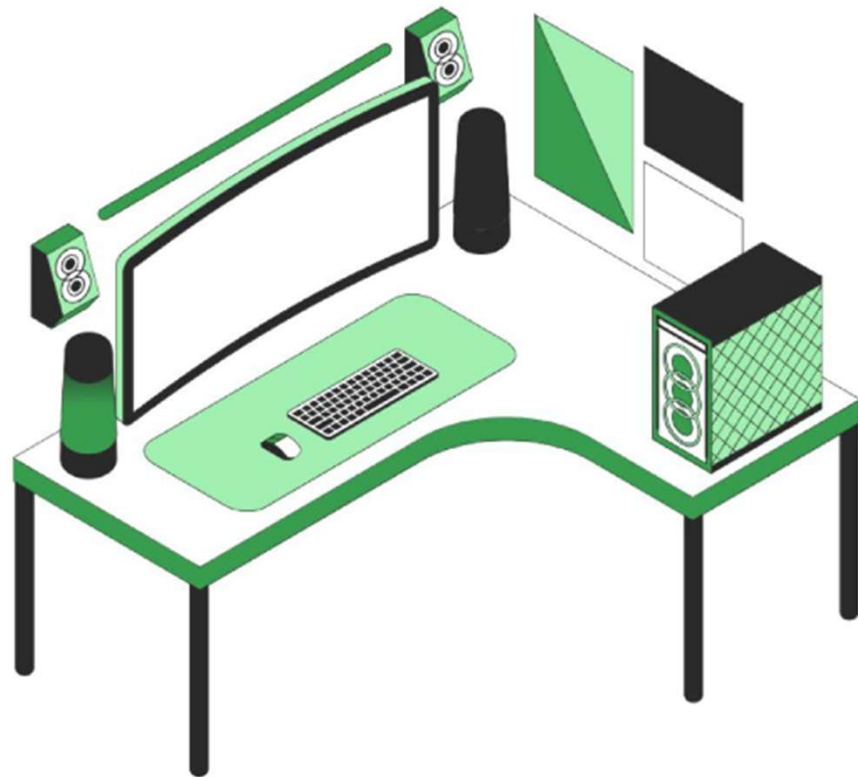| NO	TASK	TOOLS	ENV
1	**Modular Virtual Machine Creation on AWS with Terraform and Jenkins**	- AWS account - Terraform - Jenkins - Git and GitHub - AWS CLI	ALL-INFRA PIPELINE
2	**AWS Environment Configuration with Ansible and Automation with Jenkins**	- AWS account - Terraform - Ansible - Jenkins - Git and GitHub - AWS CLI	ALL-CONFIG PIPELINE
3	**Application Deployment on AWS with Docker Compose**	- AWS account - Terraform - Ansible - Docker, Docker Compose - Jenkins - Git and GitHub - AWS CLI and ECR access - Maven	DEV-CI AND CD PIPELINE

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REAL ESTATE APPLICATION

NO	TASK	TOOLS	SOLUTION
4	**Kubernetes Cluster Setup and Application Deployment**	• AWS account • Terraform • Ansible • Docker, Docker Compose • Jenkins • Git and GitHub • AWS CLI and ECR access • Kustomize • Kompose Tool • Kubernetes(Kubeadm,K3S)	TEST-CD AND TEST PIPELINE
5	**Application Deployment on AWS EKS with Helm**	• AWS account • AWS CLI • kubectl • eksctl • Helm • Jenkins • Git ve GitHub • AWS EC2, EKS, ECR • Prometheus • Grafana	PROD-CD PIPELINE
6	**Kubernetes Cluster Creation on AWS EC2 with Rancher and Application Deployment via Helm**	• AWS account • AWS CLI, EC2 • Kubectl, Helm • Rancher • Git ve Github • ELK-EFK-Loki • LENS	ALL-CD PIPELINE

Project Task Overview Table

Task #	Title	Tools	Key Components	Environments
TASK-1	Modular VM Creation on AWS	Terraform, Jenkins, AWS	Infrastructure as Code, CI/CD Pipeline	All
TASK-2	AWS Config with Ansible	Ansible, Jenkins, AWS EC2	Configuration Management, Automation	All
TASK-3	Docker Deployment	Docker Compose, AWS EC2	Containerization, Service Orchestration	Dev
TASK-4	K3s Cluster Setup	k3s, Helm, AWS EC2	Cluster Bootstrap, Application Packaging	Test
TASK-5	EKS Deployment	AWS EKS, Helm, Prometheus,Grafana	Managed Kubernetes, GitOps	Production
TASK-6	K8s Management	Rancher, EFK,	Cluster Management, Observability	All

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Do you have any questions?

Send it to us! We hope you learned something new.

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