

REAL ESTATE APPLICATION

NO	TASK	TOOLS	ENV
1	Modular Virtual Machine Creation on AWS with Terraform and Jenkins	<ul style="list-style-type: none">• AWS account• Terraform• Jenkins• Git and GitHub• AWS CLI	ALL-INFRA PIPELINE
2	AWS Environment Configuration with Ansible and Automation with Jenkins	<ul style="list-style-type: none">• AWS account• Terraform• Ansible• Jenkins• Git and GitHub• AWS CLI	ALL-CONFIG PIPELINE
3	Application Deployment on AWS with Docker Compose	<ul style="list-style-type: none">• 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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NO	TASK	TOOLS	SOLUTION
4	Kubernetes Cluster Setup and Application Deployment	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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