**Mini Project 1**

**Application Deployment**

**GitHub repo URL:** <https://github.com/Nandoo-03/Mini_Project1>  
**Application deployed kubernetes Loadbalancer ARN:**  <http://aa1d5c68c00cb4a75933ca759db29028-905903252.ap-south-1.elb.amazonaws.com/>  
**Terraform:** Defined the infrastructure in main.tf to create VPC, IAM roles, and an EC2 instance with Jenkins. The entire setup was provisioned using Terraform commands.

**Docker Hub Repo:**

A close-up of a computer screen

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

**Version Control:  
Note:** All Git operations, including pushing code to the main branch, were performed using the CLI.

A screen shot of a computer program

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**Webhook:**  
**Note:** Configured Jenkins to automatically trigger builds from GitHub main branches.

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**Jenkins:**  
**Note:** The project has been implemented using a Jenkins pipeline for main branch workflows. And enabled necessary plugins for Jenkins (Docker, Git, Kubernetes, Pipeline stage view)

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A screenshot of a web page

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A screenshot of a chat

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A screenshot of a chat

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A screenshot of a computer

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**Console Output:  
Note:** This is the console output from the main branch.  
  
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**AWS EC2 instances:**  
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**Security groups and inbound rules:**  
  
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**AWS EKS:**  
  
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A computer screen shot of a black background

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**Deployed site:**  
**Note: Deployed site at Kubernetes Load balancer ARN**.  
