Deploy a production-ready Jenkins on ECS Fargate

Pre-requisite:

1. AWS CLI must be installed and configured in the terminal/command prompt.
2. Docker should be installed and configured if you intend to run Docker commands (Optional).
3. Docker image is already uploaded to public ECR repository:
   - URI: public.ecr.aws/r4d2h1u3/jenkins:latest

Steps:

Step 01: Pull GIT repository.

Step 02: Run Terraform code to provision infrastructure in the AWS environment.

To deploy infrastructure on the environment, navigate to the directory where the main.tf file exists.

a) Run the command terraform init: This initializes the backend and installs required plugins.
b) Run the command terraform plan: This provides an overview of the code's impact.
c) Run the command terraform apply -auto-approve: This deploys resources to the cloud environment.

Step 03: Resources will start provisioning in the AWS environment.

Step 04: To access the Jenkins server, obtain the ECS cluster's Public IP address and open it in a browser followed by the port number (8080).

Example: 44.201.252.121:8080

Step 05: Credential to login to Jenkins:

Username: admin

Password: admin123