Background:
A developer team has worked on some open source project (petclinic) which is java and the framework used is Spring boot.
https://github.com/spring-projects/spring-petclinic

Problem Statement:
As a DevOps practitioner, you need to create the Infra followed by CI/CD till dev environment.

Here is the Network Architecture, its not necessary you need to follow this and we welcome any new solution.
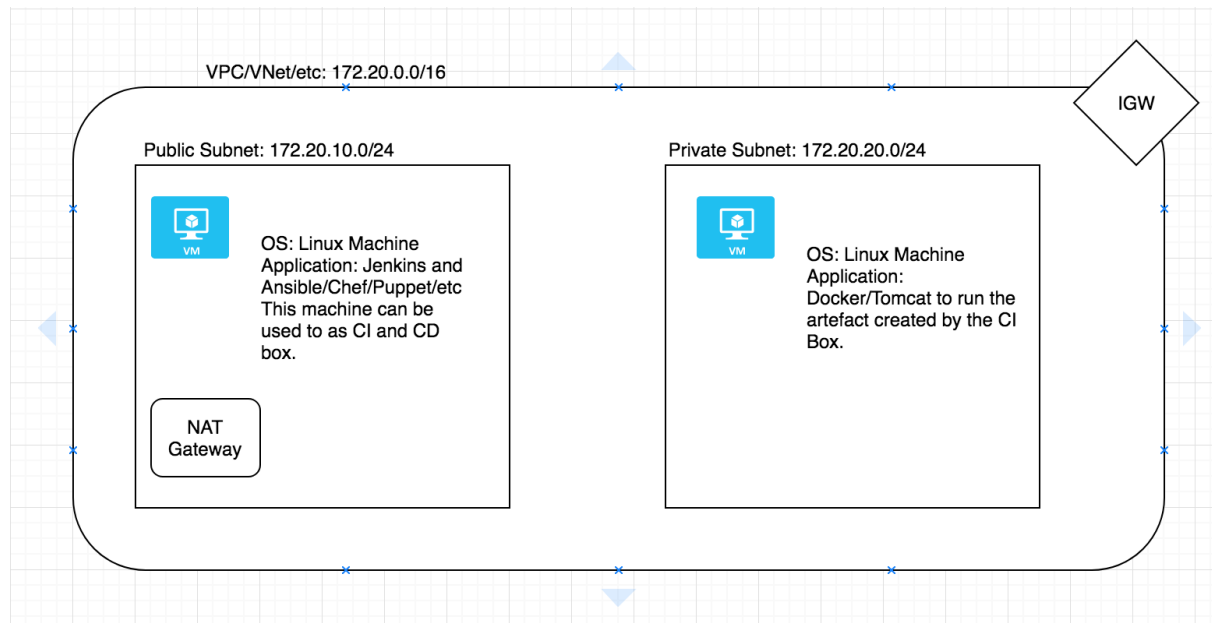
Statement 1: Using any IaC (Terraform/ARM/CFT) create the same infra which is depicted above. In this you also need to use the userdata to install the Jenkins and Ansible/Chef/Puppet/etc.

Statement 2: From Jenkins create the artefact as Dockerfile/War/Jar file and store it local (/mnt/artefact)

Statement 3: Now using the ansible/Puppet/Chef, deploy the same artefact (/mnt/artefact/..) to the box which is in the private subnet.

Note: In case, if you are using Docker, please use the Public Docker Hub to store the Docker Image.

Once you complete that, please share the code via any SCM (GitHub/GitLab/etc)