Install minikube:

brew install minikube

to start cluster

minikube start

to ensure the cluster is vrunning

minikube status

enable ingress controller

minikube addons enable ingress

to allow pods to curl services

minikube ssh

sudo ip link set docker0 promisc on

To run terraform

cd <terraform files directory>

terraform init

terraform plan

terraform apply

to get url for different services

minikube service <service name> --url --namespace <namespace>

nexus configurations

kubectl exec -it nexus --namespace build bash

cat /nexus-data/admin.password

then change admin passsword

Jenkins configurations

kubectl exec -it jenkins --namespace build bash

cat /var/jenkins\_home/secrets/initialAdminPassword

then install suggested plugins

create user and password

First configure maven tool in configure system tools

Create nexus credential with id Nexus

Create mysql credential with id mysql

Install Config File Provider plugin

Create config file for the ansible script that will deploy the spring app

Create pipeline

Choose This project is parameterized

Add string parameter COMMIT\_ID

Choose pipeline script

building mysql image using dockerfile

docker build . --build-arg root\_pass=<enter password> --tag mysql:v1.0

keytool -genkeypair -keystore keystore.jks -storepass password -keypass password -alias jetty -keyalg RSA -keysize 2048 -validity 5000 -dname "CN=\*.nexus, OU=Example, O=Sonatype, L=Unspecified, ST=Unspecified, C=US" -ext "SAN=DNS:nexus,IP:10.104.138.92" -ext "BC=ca:true"