Setting up the docker things

- 1. Installed docker container runtime
- 2. created Dockerfile using nginx and copy
- 3. docker build -t
- 4. docker run --name surveyformc -d -p 8080:80 surveyform
- 5. docker login hemu1999
- 6. docker tag surveyform hemu1999/surveyform

Setting up the jenkins on EC2

- Create t2.micro on AWS, allowing HTTPs and saving the key
- https://www.jenkins.io/doc/tutorials/tutorial-for-installing-jenkins-on-AWS/
- Our jenkins is available at http://23.22.80.96:8080/

Github

- · Create an ssh key pair locally
- add the public key to the github sshkey in the repo settings
- · add the private key as the credentials on jenkins
- create a webhook with the payload http://23.22.80.96:8080/web-hook/
- · create it

Jenkins Setup

- Create a job
- Select free style project
- Give a description
- · choose github project
- add the github url
- · choose git as SCM
- add repo url
- · choose credentials
- make branch to blank
- choose github hook trigger
- add build steps adding..

PROFESSEUR: M.DA ROS

To install docker on jenkins node: https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/install-docker.html sudo yum update -y sudo yum install -y yum-utils device-mapper-persistent-data lvm2 sudo yum-config-manager --add-repo https://download.docker.com/linux/amazon/docker-ce.repo sudo yum install -y docker-ce

sudo systemctl start docker sudo systemctl enable docker giving jenkins user permissions using: sudo usermod -aG docker \$USER sudo usermod -aG docker jenkins

Installing rancher

- create a t2.medium instance with 24gb of ebs allowing HTTP & HTTPS with AMI LINUX 2
- yum update -y to update the existing packages
- yum install docker -y to install docker
- systemctl enable docker to enable the system link with docker
- systemctl start docker to start the docker service in backend
- docker run -d --restart=unless-stopped -p 80:80 -p 443:443 --privileged rancher/rancher:stable use this command to start a rancher container.
- Then go to ec2-ipaddress:80 to see the rancher dashboard
- run the docker logs container-id 2>&1 | grep "Bootstrap Password:" gives the current password
- use that to create your own new password.
- In the dashboard, click create.
- Scroll down and choose custom and then click on create.
- Then choose the curl command presented on screen, enable the insecure flag.
- copy this command to paste it in the k8 ec2 machine to make the cluster on ec2 manageable with rancher.

Setting up the k8 ec2

- create a t2.medium instance with 24gb of ebs allowing HTTP & HTTPS with ubuntu
- sudo apt-get update -y to update current packages
- sudo apt-get install docker.io -y to install docker service, it should automatically create system link, if not follow above systemcl commands to start docker service in the backend.
- paste the rancher agent curl command and click enter. this will make the cluster accessible via rancher.
- Now go to rancher dashboard and start deploying your yaml files.