Exercise 4

1.

- Why are agents needed?
- In "jenkins-full-deployment.yaml", what are the sections "livenessProbe", "readinessProbe" for ? If you remove them, what happens?
- The pvc's YAML file defines "storageClassName" to be "hostpath". What is a storageclass, and what does "hostname storage class" mean?

2.

Create a pipeline with agents as done in lab1 and lab2, except map the /root/.m2/repository directory to the pvc you created in lab 1. Be sure to use the yaml file from the github repository. Once it is set up, run the pipeline twice. The second run should be faster. This should run in a separate agent, as done in the lab.

Your pipeline should be in the Jenkinsfile in your own github repository. Configure the pipeline to load your Jenkinsfile from github.

Submit the Jenkinsfile. Submit the console logs for the first and second runs. Find in the Jenkins logs where the agent pod is created and then torn down. Paste those lines into your submission and describe what Jenkins is doing in that intervening time.

Explain your experiment and any problems you ran into.

How many containers are created in each agent? What does each container do? Submit a kubectl command that shows how many containers are in the pod.