1. I deleted my instance that was connected to Jenkins yesterday. So I made a new one to be able to handle deployment 2. My ec2 instance ran this bash script in Step 3 of Configure Instance Details

```
#!/bin/bash
sudo yum update –y
sudo wget -O /etc/yum.repos.d/jenkins.repo \
https://pkg.jenkins.io/redhat-stable/jenkins.repo
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
sudo yum upgrade
```

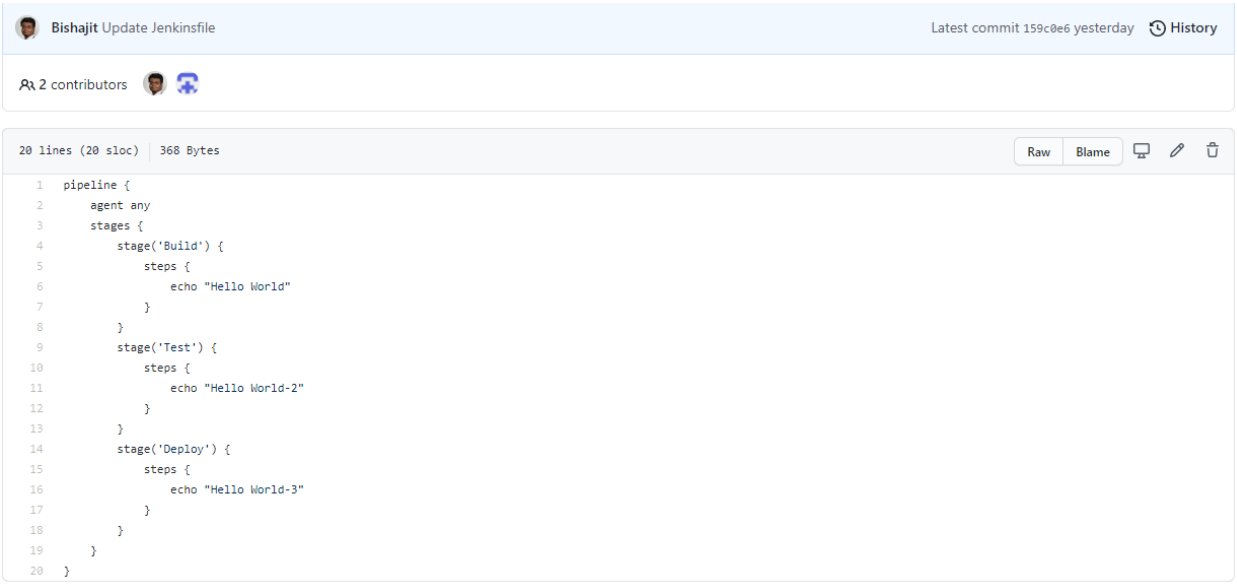
```
https://pkg.jenkins.io/redhat-stable/jenkins.repo
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
sudo yum upgrade
sudo yum install jenkins java-1.8.0-openjdk-devel -y
sudo systemctl daemon-reload
sudo systemctl start jenkins
```

and had this input rules

Port range	Protocol	Source	Security groups
80	TCP	0.0.0.0/0	launch-wizard-17
80	TCP	::/0	launch-wizard-17
8080	TCP	0.0.0.0/0	launch-wizard-17
8080	TCP	::/0	launch-wizard-17
22	TCP	100.12.176.32/32	launch-wizard-17

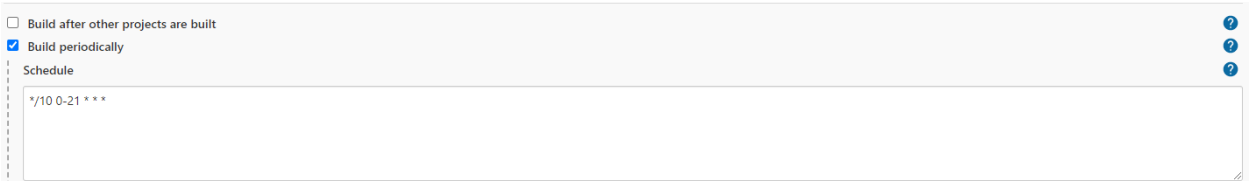
2. I installed git with yum install git
3. I logged into my EC2 using the windows terminal. ssh -i deployment2.pem ec2-user@18.221.234.103
4. Installed git and made sure both git and Jenkins (which was installed from my bash script) were installed by using the command git --version and jenkins --version.
5. After that I went to deployment 2 and forked it

6. Forking allowed me to add my edited jenkinsfile where it runs my pipeline with build,test, deploy stages.And this what I added to the Jenkinsfile




```
pipeline {
    agent any
    stages {
        stage('Build') {
            steps {
                echo "Hello World"
            }
        }
        stage('Test') {
            steps {
                echo "Hello World-2"
            }
        }
        stage('Deploy') {
            steps {
                echo "Hello World-3"
            }
        }
    }
}
```

7. After that I tried to make a new project in jenkin by using the jenkin gui to click new item. I tried a multiline branch but it failed for me. So I made it in a pipeline project because it wasn't working for me. (Later I find out you can make it work in multiline branch by adding a trigger to your pipeline in Jenkins)
8. I googled how to do cron jobs build triggers because I wasn't sure if i was doing the right command.
   Source:
   https://stackoverflow.com/questions/12472645/how-do-i-schedule-jobs-in-jenkins
9. From that site I tried the command */10 0-21 * * * because I wanted the pipeline to (build periodically) every 10 mins and run from midnight to 9 pm when our class ends. This is what the prompt asked us for



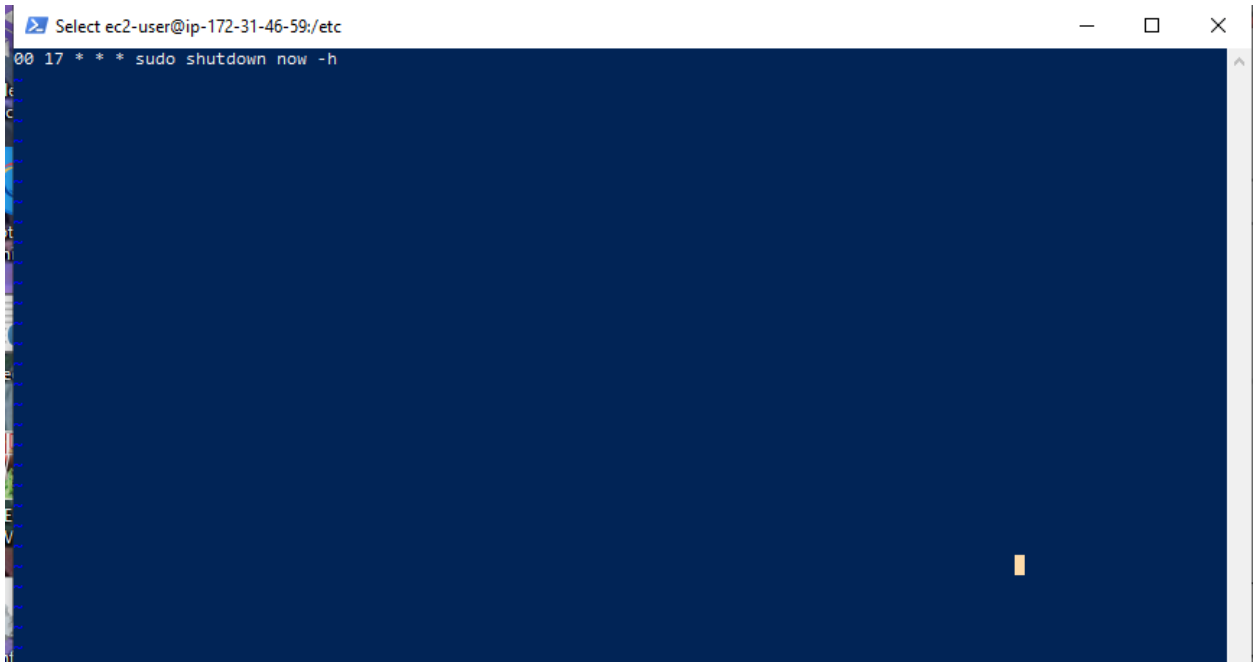
10. Then after 10 min I made sure it ran automatically and it did
11. After that i had trouble figuring out how to do a cron job to automatically shut down my ec2 for deployment 2 as the prompt asked. To solve this or what worked for me is the tip given in class which was etc directory and the name of deployment 2 called cron jobs. I googled "setting up cron jobs in etc linux".

Source:
https://www.taniarascia.com/setting-up-a-basic-cron-job-in-linux/
And this site helped me figure out that I had to use
which was crontab -e and I figured I would to have press i to edit the crontab

12. I also learned that you can shutdown a ec2 using the command

Source
:https://stackoverflow.com/questions/22840682/stopping-an-linux-aws-instance-from-linux-command-line

13. I tested it using this command 00 17 sudo shutdown now -h from learning how to shut it down from this site called



14. And then exited the crontab using ESC and pressing :wq as the site from I googled instructed
15. Unfortunately my test shutdown didn't work.I figured out how to solve this from a classmate. I found this out because a classmate of mine explained to me that my linux server was in udt time.
16. So i changed the time to 00 01 shutdown -h to shutdown at 9. This is because eudt is 4 hours ahead of est which is my timezone.
    Source: Google
17. I tested it again to make sure it works by changing the time to 18 01 shutdown -h and it worked
18. Also to change timezone, these commands have to be used.
    Listing all time zone: timedatectl list-timezones
    To change the time zone: sudo timedatectl set-timezone <your_time_zome>