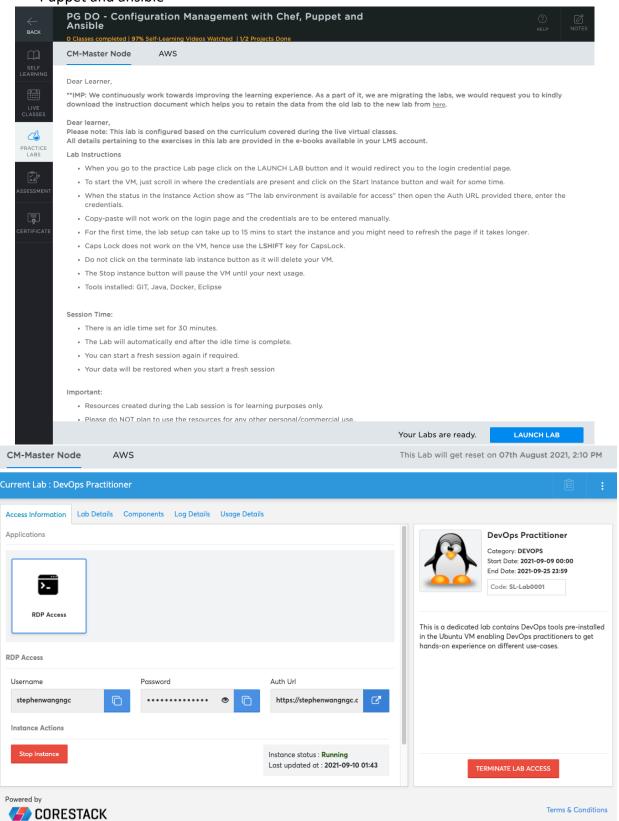
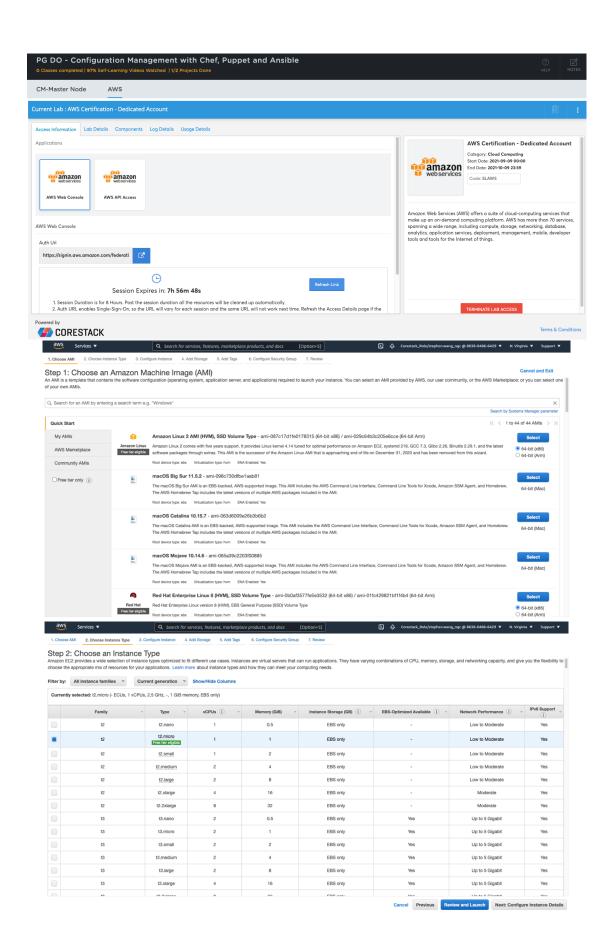
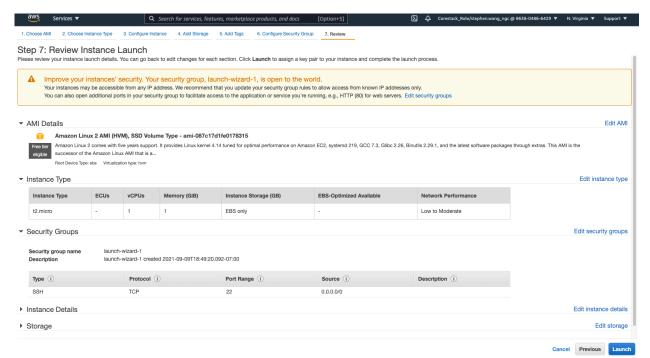
1. Lauch CM-Master Node Lab in Course 4: PG DO – Configuration Management with Chef, Puppet and ansible







2. Use Github to create and clone capstone project to CM-Master Note

```
stephenwangngc@stephenwangngc:~$ ls

Desktop thinclient_drives

stephenwangngc@stephenwangngc:~$ git clone https://github.com/stephengineer/Dev0

psCapstone.git

Cloning into 'DevOpsCapstone'...

remote: Enumerating objects: 4, done.

remote: Counting objects: 100% (4/4), done.

remote: Compressing objects: 100% (3/3), done.

remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (4/4), done.

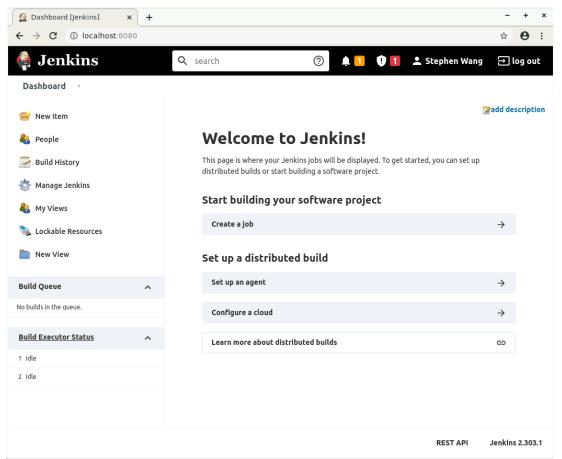
Checking connectivity... done.

stephenwangngc@stephenwangngc:~$
```

3. Set up the Jenkins server in master or slave architecture

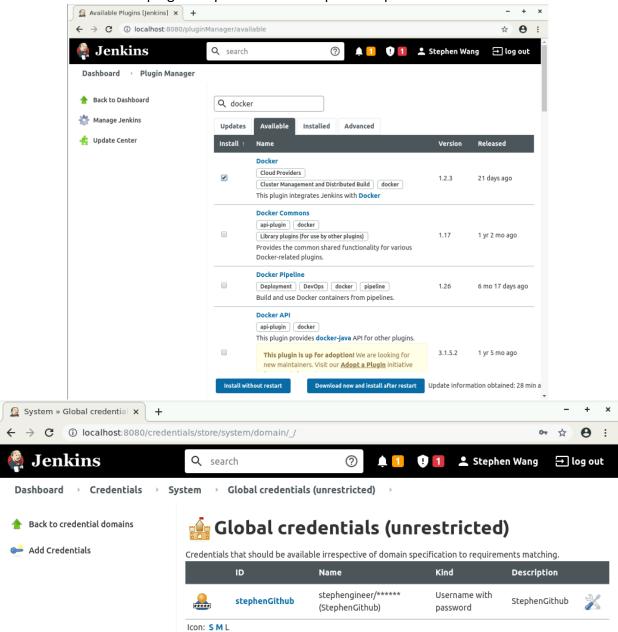
```
stephenwangngc@stephenwangngc:-/DevOpsCapstone$ sudo systemctl start jenkins
stephenwangngc@stephenwangngc:-/DevOpsCapstone$ sudo systemctl status jenkins
• jenkins.service - LSB: Start Jenkins at boot time
   Loaded: loaded (/etc/init.d/jenkins; bad; vendor preset: enabled)
   Active: active (exited) since Thu 2021-09-09 20:41:48 UTC; lmin 48s ago
        Docs: man:systemd-sysv-generator(8)

Sep 09 20:41:46 stephenwangngc systemd[1]: Starting LSB: Start Jenkins at boot time...
Sep 09 20:41:46 stephenwangngc jenkins[31966]: Correct java version found
Sep 09 20:41:46 stephenwangngc su[32022]: * Starting Jenkins Automation Server jenkins
Sep 09 20:41:46 stephenwangngc su[32022]: Successful su for jenkins by root
Sep 09 20:41:46 stephenwangngc su[32022]: pam_unix(su:session): session opened for user jenkins by (uid=0)
Sep 09 20:41:48 stephenwangngc jenkins[31966]: ...done.
Sep 09 20:41:48 stephenwangngc systemd[1]: Started LSB: Start Jenkins at boot time.
Sep 09 20:43:06 stephenwangngc systemd[1]: Started LSB: Start Jenkins at boot time.
stephenwangngc@stephenwangngc:-/DevOpsCapstone$
```

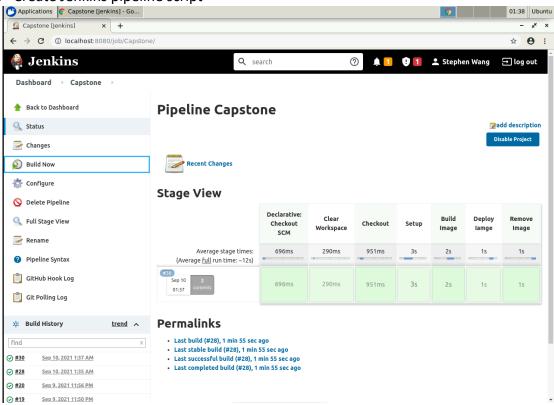


- 4. Build an image using the artifacts and deploy them on containers
- 5. Remove the container stack after completing the job

6. Use the Jenkins plugins to perform the computation part on the Docker containers



7. Create Jenkins pipeline script



8. Use the GIT web hook to schedule the job on check-in or poll SCM

