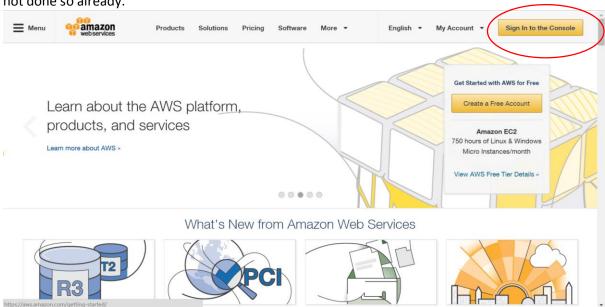
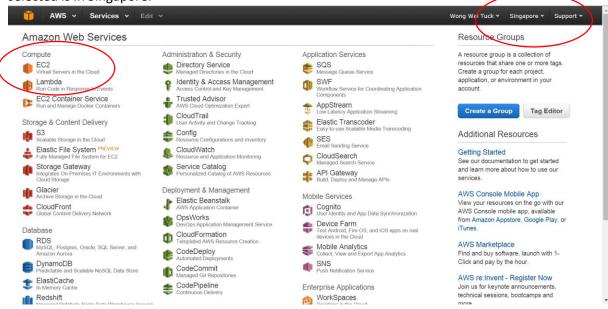
## Setting up tmpnb Server for Class of 55 Students

 Login to AWS on through the following URL. <a href="https://aws.amazon.com/">https://aws.amazon.com/</a>

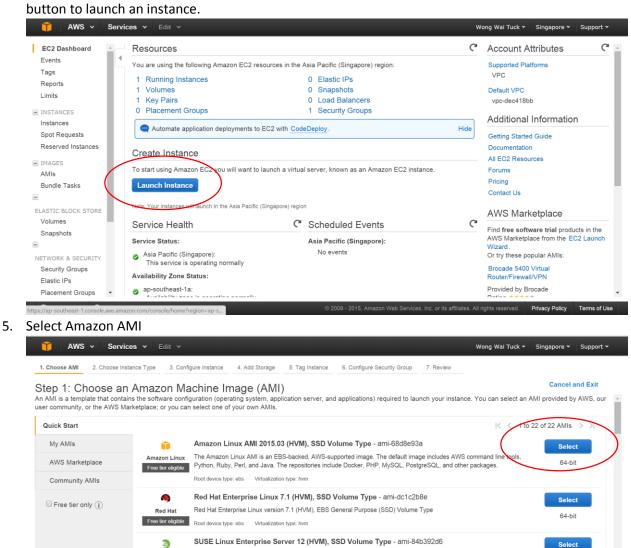
2. Click to "Sign In To The Console" to enter the AWS Portal and create credentials if you have not done so already.



3. Click on EC2. We'll be using EC2 to host our tmpnb server. Make sure the region you have selected is in Singapore.



4. You will be greeted with the default managing page for EC2. Click the "Launch Instance" button to launch an instance





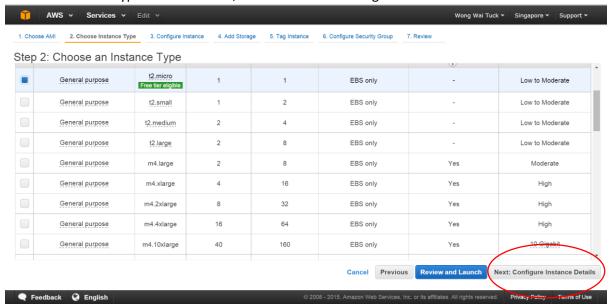
Free tier eligible Management, Web and Scripting, and Legacy modules enabled

SUSE Linux

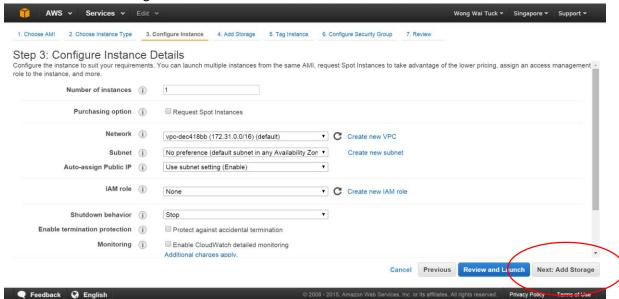
SUSE Linux Enterprise Server 12 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems

64-bit

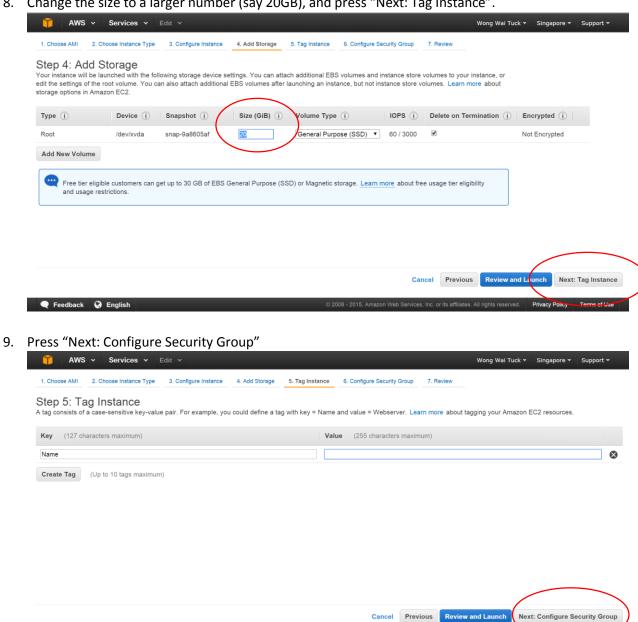
6. Select an instance type that is suitable, then click "Next: Configure Instance Details".



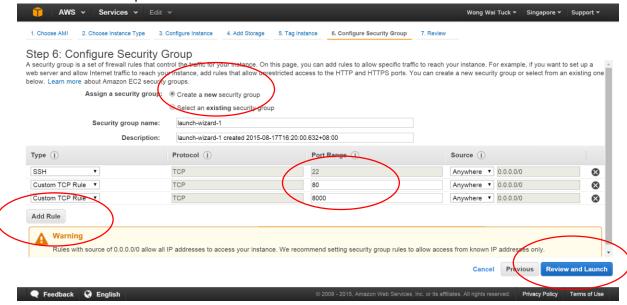
7. Select "Next: Add Storage"



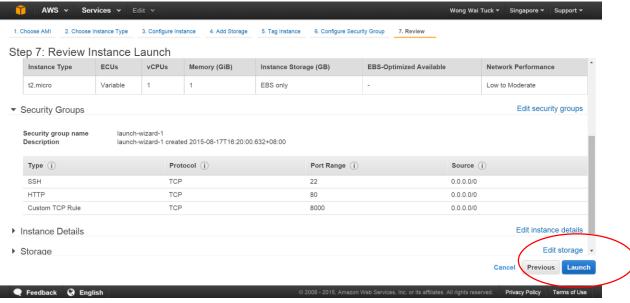
8. Change the size to a larger number (say 20GB), and press "Next: Tag Instance".



10. Make sure that "Create a new security group" is selected add the following Custom TCP Rules as below and press "Review and Launch".



11. Review and launch your instance!



- 12. Login to your EC2 instance, following the instructions on the screen.
- 13. Type the following command without quotes to install docker: "sudo yum install docker"
- 14. Once docker is installed, type the following commands to launch the tmpnb server on the url of the given ec2 instance (on port 8000)!

```
export TOKEN=$( head -c 30 /dev/urandom | xxd -p )
docker run --net=host -d -e CONFIGPROXY AUTH TOKEN=$TOKEN --name=proxy
jupyter/configurable-http-proxy --default-target http://127.0.0.1:9999
docker pull waituck/custom_nb
docker run --net=host -d -e CONFIGPROXY AUTH TOKEN=$TOKEN \
                 -v /var/run/docker.sock:/docker.sock \
                 jupyter/tmpnb python orchestrate.py --image='waituck/custom_nb'
--pool_size=65 --command="ipython notebook --
NotebookApp.base_url={base_path} --ip=0.0.0.0 --port {port}"
        AWS v
                 Services v Edit v
                                                                                               Wong Wai Tuck • Singapore • Support •
   EC2 Dashboard
                     Launch Instance Connect Actions ♥
                                                                                                                     ÷ • 0
  Events
  Tags
                       Q Filter by tags and attributes or search by keyword
                                                                                                        ② | ⟨ < 1 to 1 of 1 > >|
   Reports
                                  Instance ID A Instance Type Availability Zone Instance State Status Checks Alarm Status
                                                                                                              Public DNS
                                                                                                           ec2-52-76-7-74.ap-sout.
                          tmpnb-spark-... i-8165904d t2.micro
                                                      ap-southeast-1b 🧼 running
                                                                                      2/2 checks ... None
 ■ INSTANCES
  Instances
  Spot Requests
  Reserved Instances
                      Instance: i-8165904d (tmpnb-spark-sg) Public DNS: ec2-52-76-7-74.ap-southeast-1.compute.amazonaws.com
                                                                                                                     IMAGES
  AMIs
                       Description Status Checks Monitoring Tags
                                                                                               ec2-52-76-7-74.ap-southeast
                                                                                               1.compute.amazona
 ELASTIC BLOCK STORE
                                  Instance state running
                                                                                       Public IP
                                                                                               52.76.7.74
  Volumes
                                   Instance type t2.micro
                                                                                       Elastic IP
  Snapshots
                                    Private DNS ip-172-31-3-235.ap-southeast-
                                                                                   Availability 2
                                             1.compute.internal
                                    Private IPs 172.31.3.235
                                                                                   Security groups default, view rules
 NETWORK & SECURITY
                             Secondary private IPs
                                                                                  Scheduled events No scheduled events
  Security Groups
                                       VPC ID vpc-dec418bb
                                                                                         AMI ID amzn-ami-hvm-2015.03.0.x86_64-gp2
  Elastic IPs
                                                                                               (ami-68d8e93a)
  Placement Groups
```

Access the final tmpnb server with the following url: http://<Public IP>:8000

<sup>\*</sup>NOTE: the mem\_limit of teach docker container in the tmpnb server may be modified. Refer to <a href="https://github.com/jupyter/tmpnb">https://github.com/jupyter/tmpnb</a> for the full list of command line options.