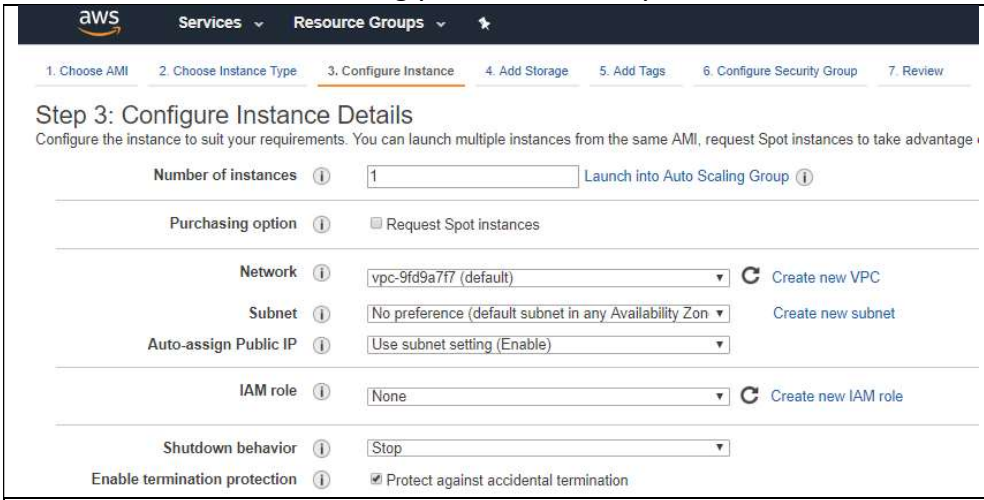
MSDS 7346
Cloud Computing
Mini Project 2 – Compute

Name: Mooyoung Lee

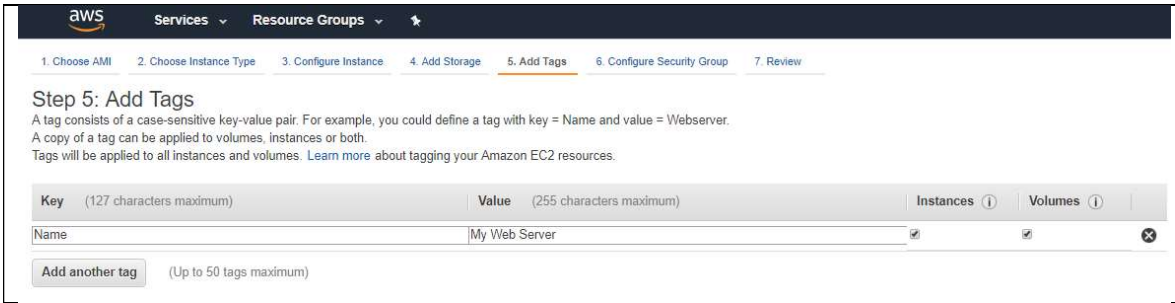
The objective of this lab is to dig deeper into AWS EC2. This is continuation of what we did in the class. Please complete the following steps and take screenshots at each of the steps to

submit:

1. Create and launch an instance on EC2 with termination protection enabled against accidental termination, naming your instance “My Web Server”



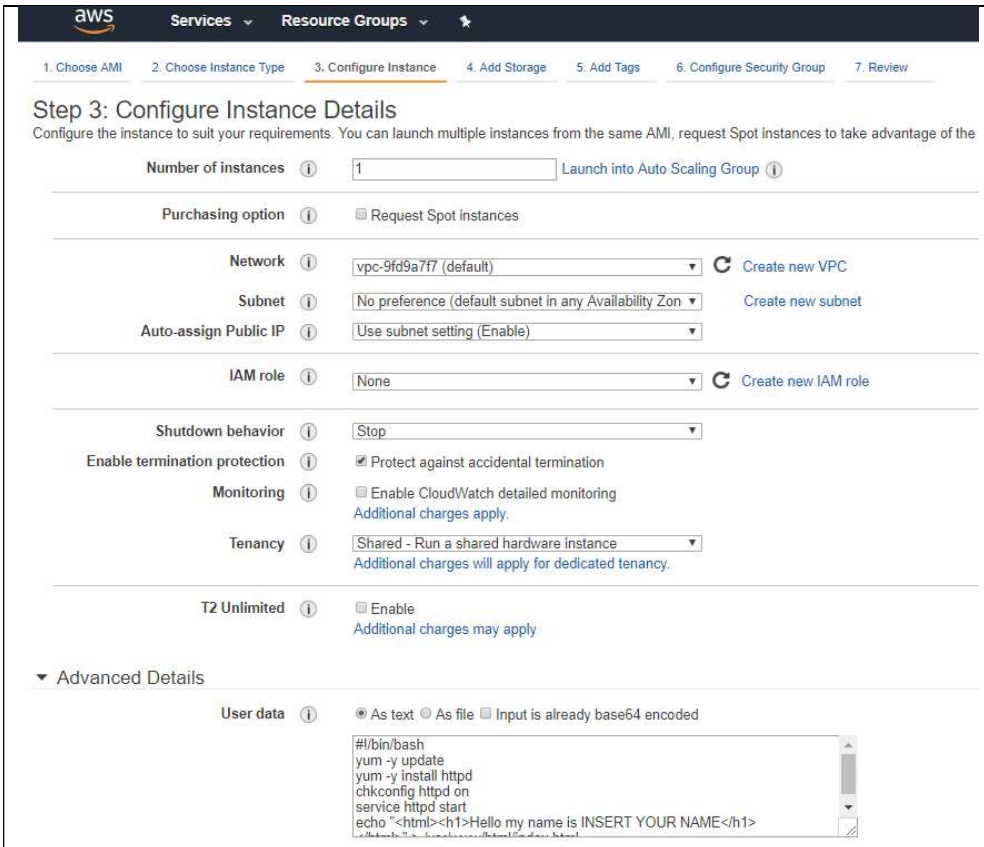
‘Enable termination protection’ can be enabled by checking on the check box above. An instance with this feature turned on cannot be terminated until this feature turned off.

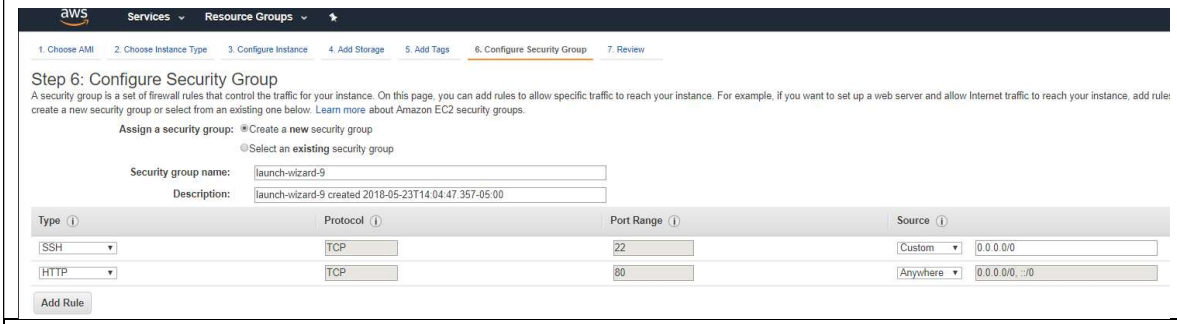


The name of the instance can be changed from ‘Add Tags’ step as shown above. Type ‘Name’ and change the value by typing a value in the ‘Value’ cell.

2. Insert the following script so that it is executed as EC2 instance is created

```
#!/bin/bash
yum -y update
yum -y install httpd
chkconfig httpd on
service httpd start
echo "<html><h1>Hello my name is INSERT YOUR NAME</h1>
</html>" > /var/www/html/index.html
```



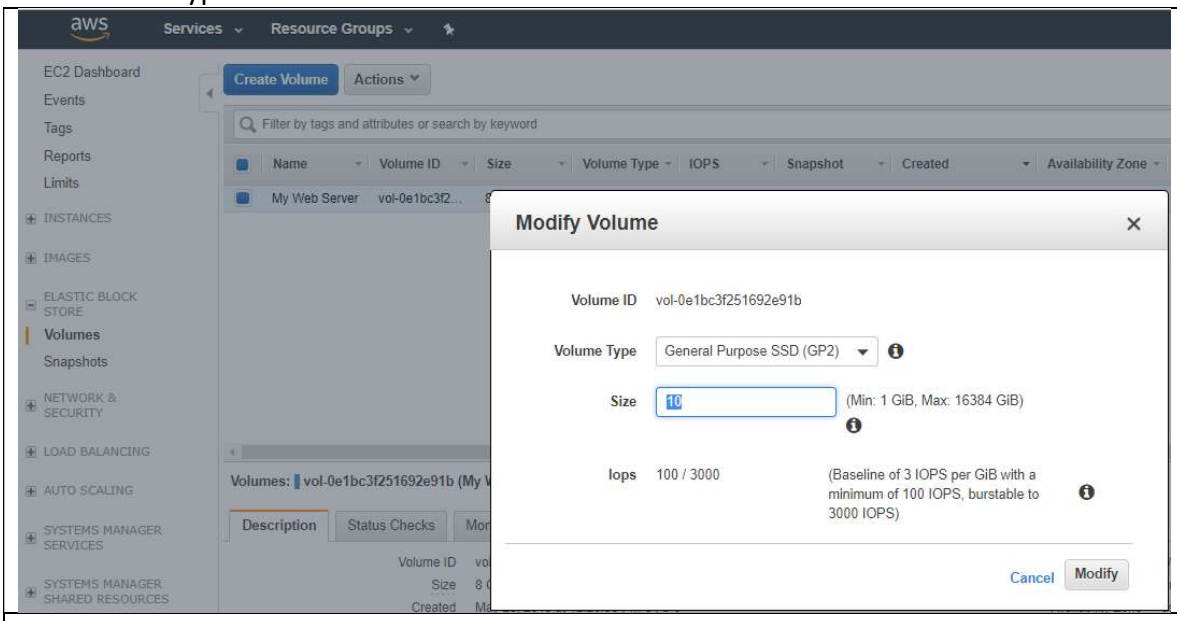


Any code typed in the 'User data' area will run when instance start.
In order to be accessible from web browser, add '**HTTP'** protocol and let the connection source to be '**Anywhere'**.

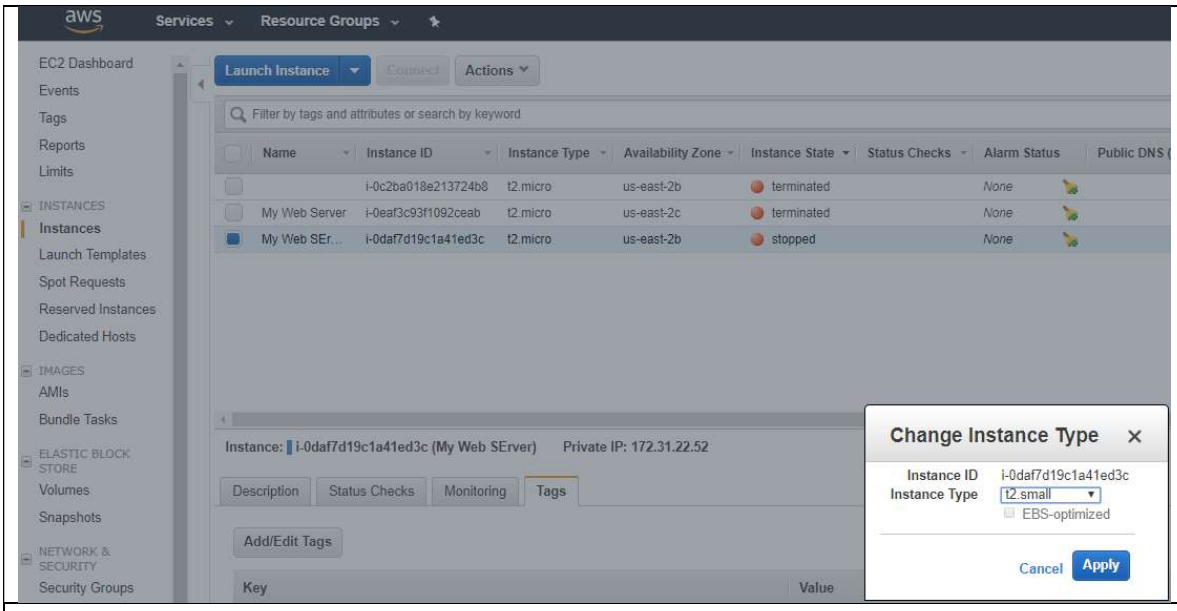
3. Try to access the Web Server (Note: may need to update your security group setting)

Web server can be accessed by typing the public IP address on a web browser.
Unfortunately, the connection was not successful at this time.

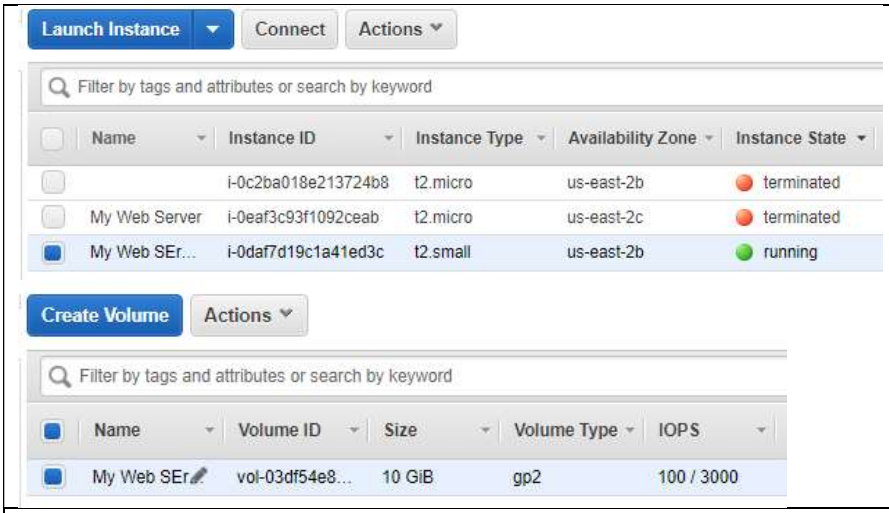
4. Resize your instance type and EBS volume (change the volume size from 8 GiB to 10 GiB and instance type to t2.small



Go to: Volume/ Action/ Modified Volume
EBS volume can be edited by typing size value on the 'modified volume' window.

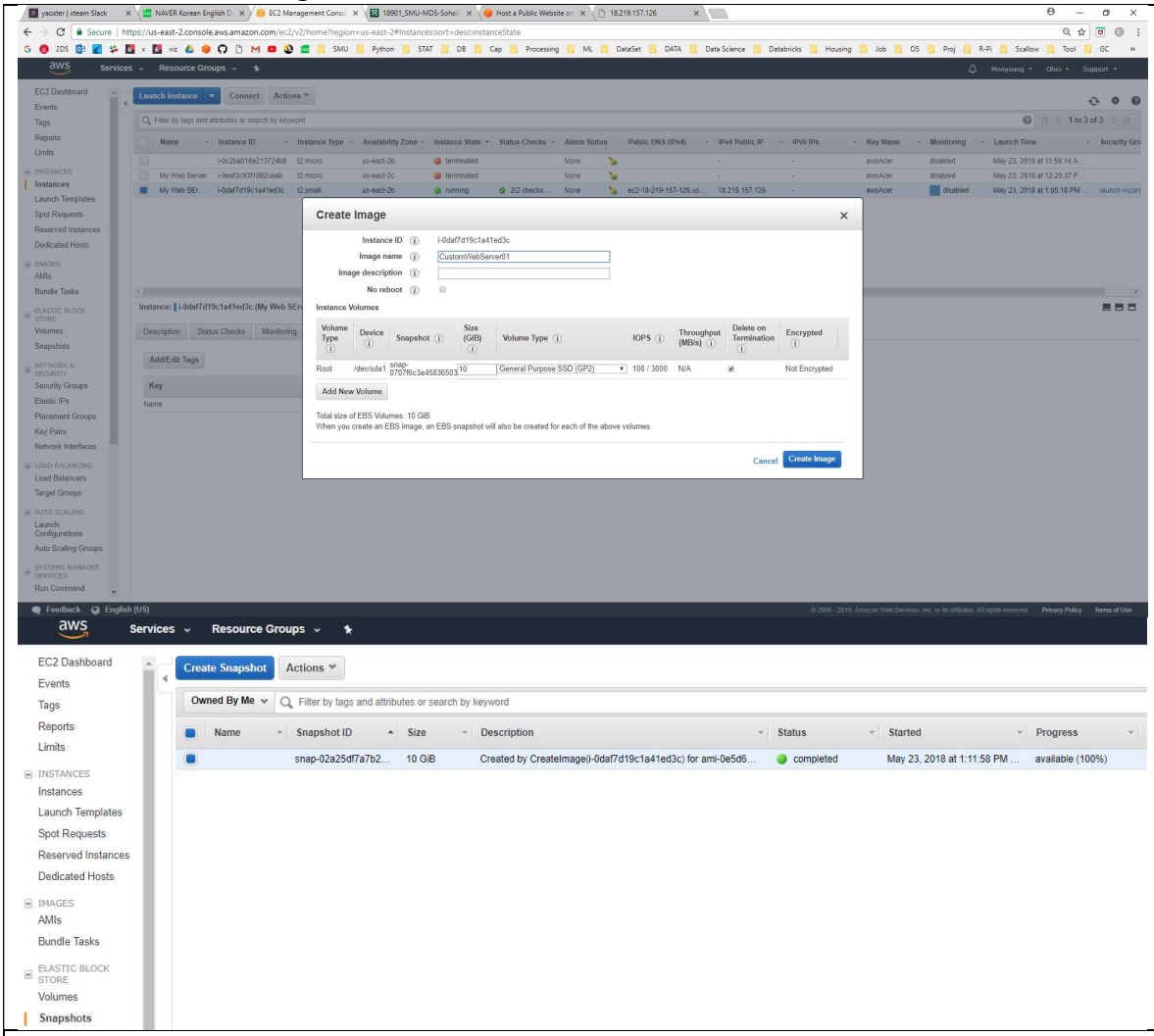


In order to change the instance type, a running instance need to be stopped first.
Once the instance stopped, go to 'instance setting/ change instance type'
Them, start the instance again.



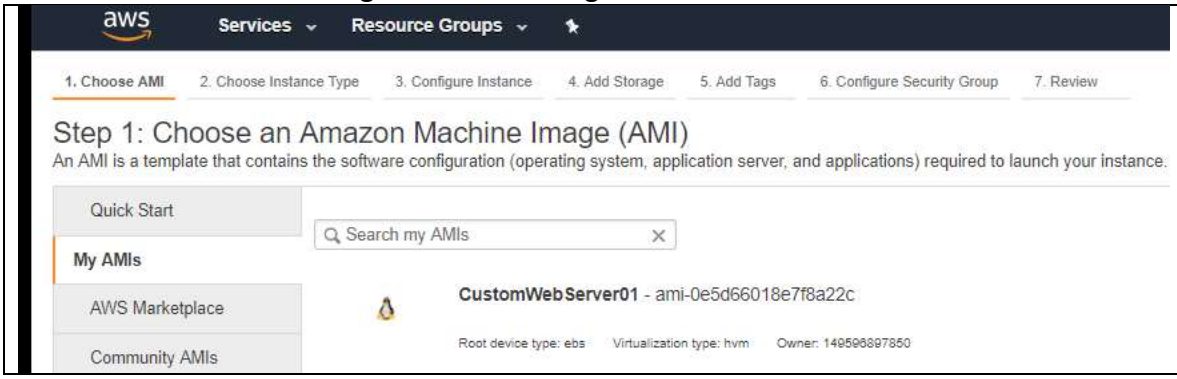
Changed to t2.small and 10GB of space.

5. Create a custom image



Go to Actions/ Image/ Create Image.
The created image can be found from 'Snapshots' window.

6. Launch EC2 instance using the custom image



Go to '**Launch Instance/ My AMIs**' and click 'select' & 'review/launch'
Make sure to establish 'HTTP' protocol running to be able to connect.

7. Launch Web Server on the custom image

When creating an instance from an image, the bash code is not needed to be typed again. The server was running automatically, and the webserver was connected by typing a new address.

Please submit screenshots for each steps.

Collaborator: None.

Reference: None.