LAB - EC2 Web Server (Elastic Compute Cloud)

1. **AMI**
   - Launch an EC2 with an amazon amazon linux 2 AMI in AWS)
   - Install Apache web server application on our linux server
   - Create an AMI from the above linux existing linux instance
   - Share the image to Ohio region or another region
   - Also share to my account (220816069512)
   - Launch an instance from copied AMI in another AWS region (AWS data center(us-east-2(Ohio)))

2. Install Apache Web Server on Linux Instance
   Apache is a popular free, open-source, cross-platform web server software.
This application will allow you to host a website and access the site on a web browser.

1. Launch a Linux EC2 instance in AWS
2. Make sure to add 2 rules in the security group
   a. ssh from anywhere
   b. http from anywhere
3. ssh into the above server
4. Run below commands

$ sudo su - (change to root user)

$ yum install httpd -y (Install apache application)

$ cd /var/www/html (Navigate to specified location)

$ ls (notice there is not file in the location)

$ vim index.html (We create a file called index which will hold content of our website)

press i on your keyboard and type the following text "this is my first website"

Press Esc on your keyboard

type :wq! and press Enter

$ ls (Notice we now have our index.html file created)

$ cat index.html (view content of the file)

$ service httpd status (Check the status of apache service)

$ service httpd start (start apache service)

$ service httpd status (Check the status of apache service)

Result

Copy the public IP of above server and enter it into a new web browser to see result of your web content.

Notes

- Make sure Security group has a rule to allow http on port 80 - This will allow traffic from you instance to the world wide web www
- Make sure your web service is running inside your server (service httpd status)
- Lastly make sure you're using public IP not Private IP

Make sure to delete created resources when done.