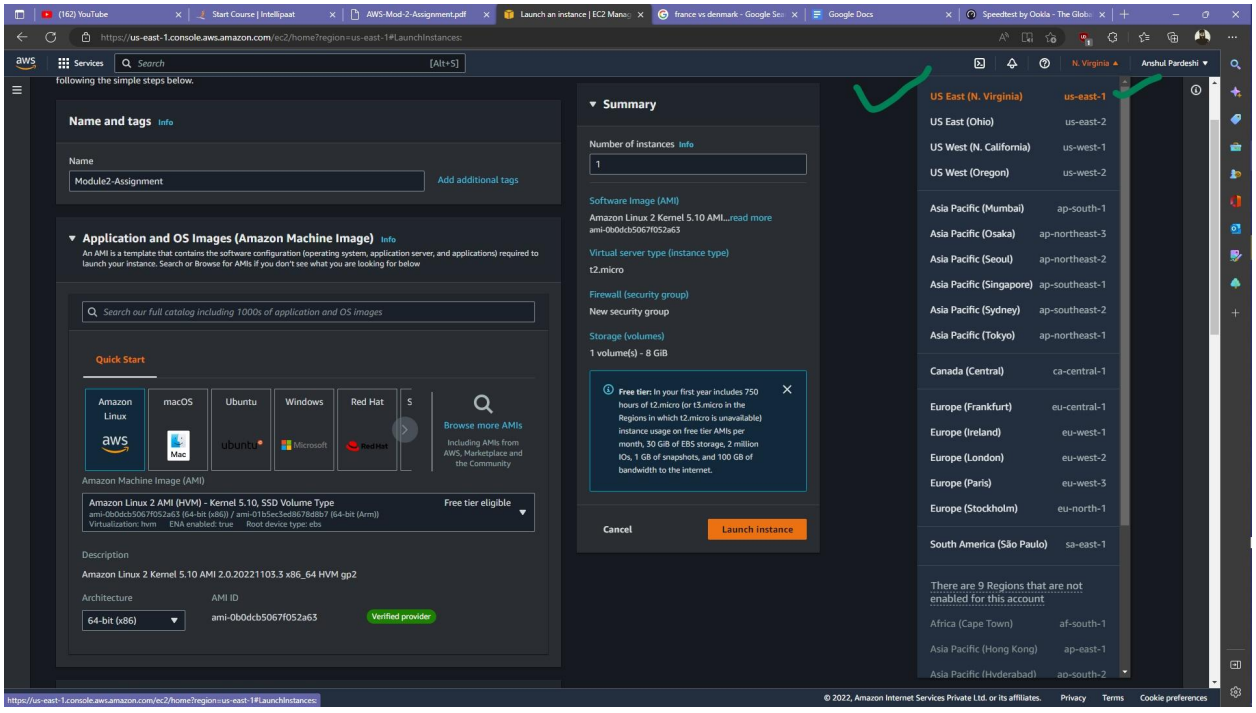
Module-2: Case Study

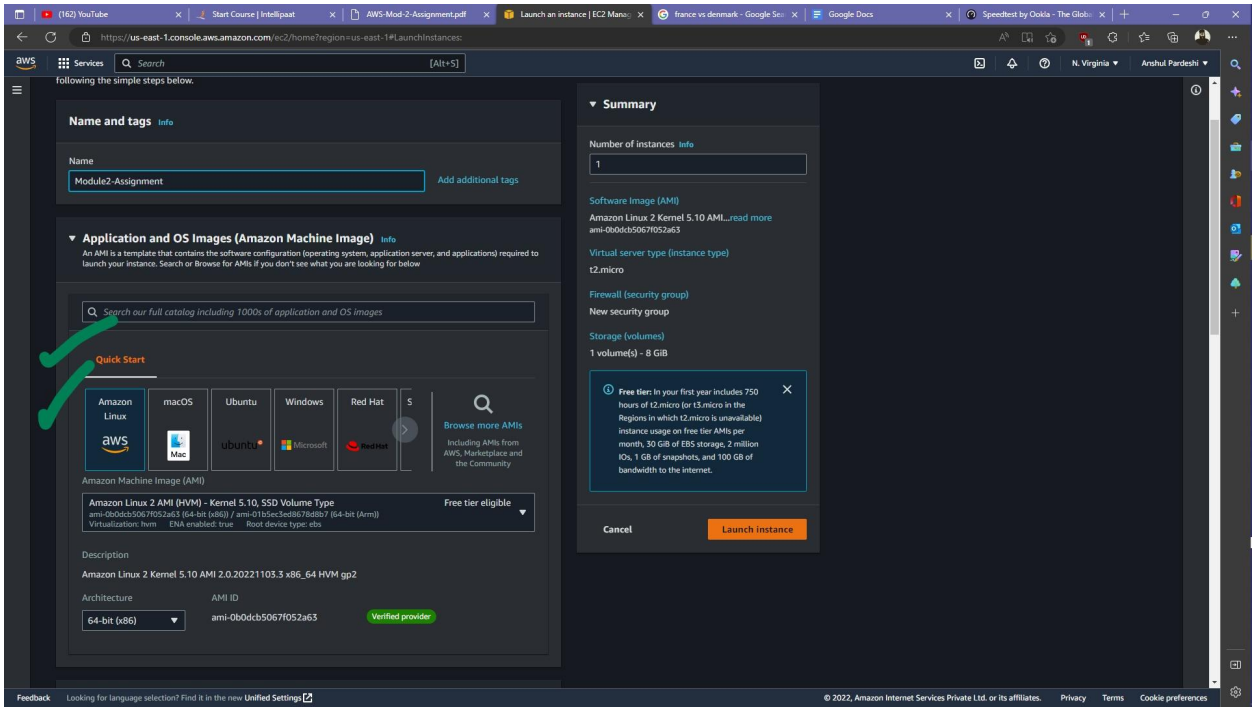
Problem Statement: You work for XYZ Corporation. Your company is working on an application, and it requires secured web servers on Linux to launch the application.
You are asked to:
1. Create an instance in the us-east-1 (N. Virginia) region with the Linux OS and manage the requirement of web servers of your company using AMIs
2. Replicate the instance in the us-west-2 (Oregon) region
3. Build two EBS volumes and attach them to the instance in the us-east-1 (N. Virginia) region
4. Delete one volume after detaching it and extend the size of the other volume
5. Take a backup of this EBS volume

1.Create an instance in the us-east-1 (N. Virginia) region with the Linux OS and manage the requirement of web servers of your company using AMIs:

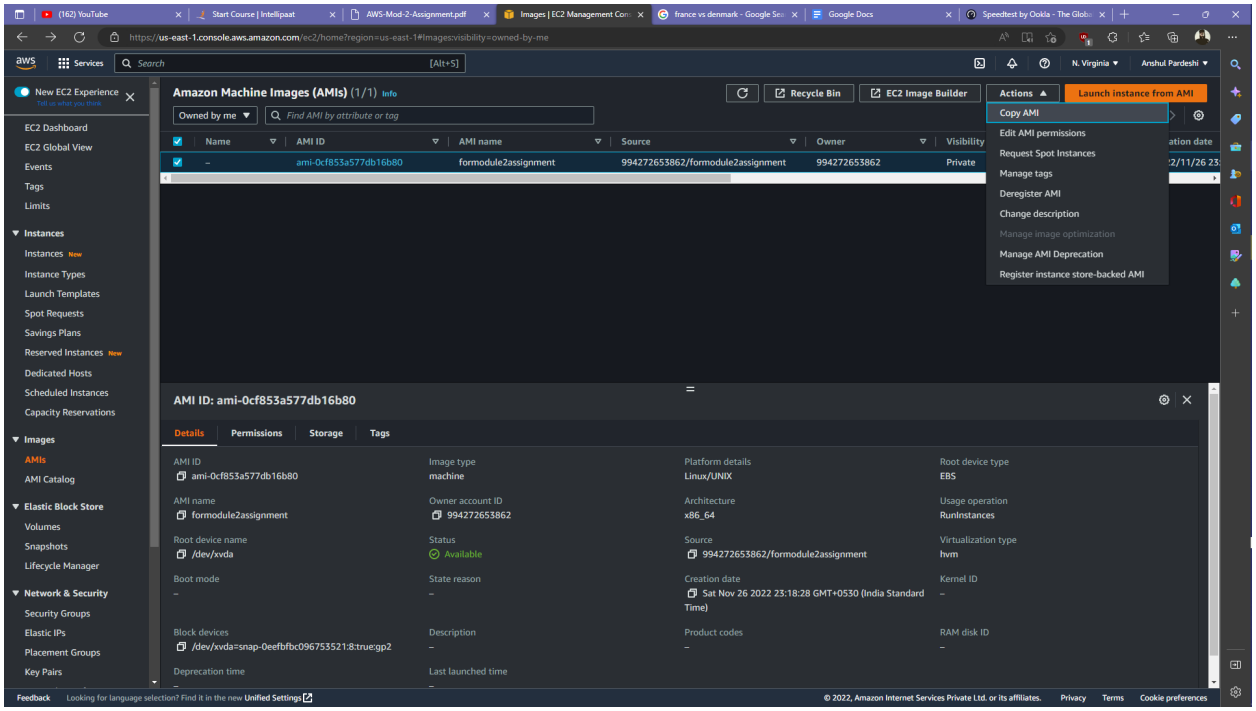
Selected us-east-1 (N. Virginia) region.

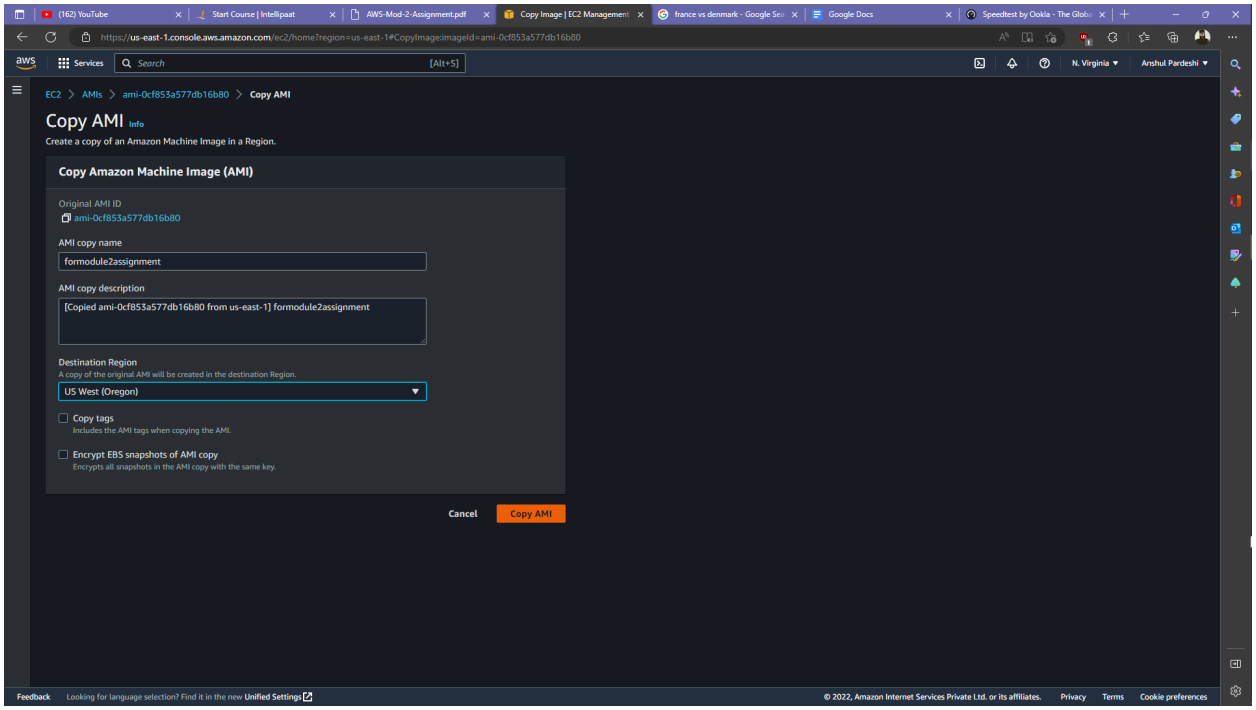


Used a Linux OS, we chose Amazon Linux here.



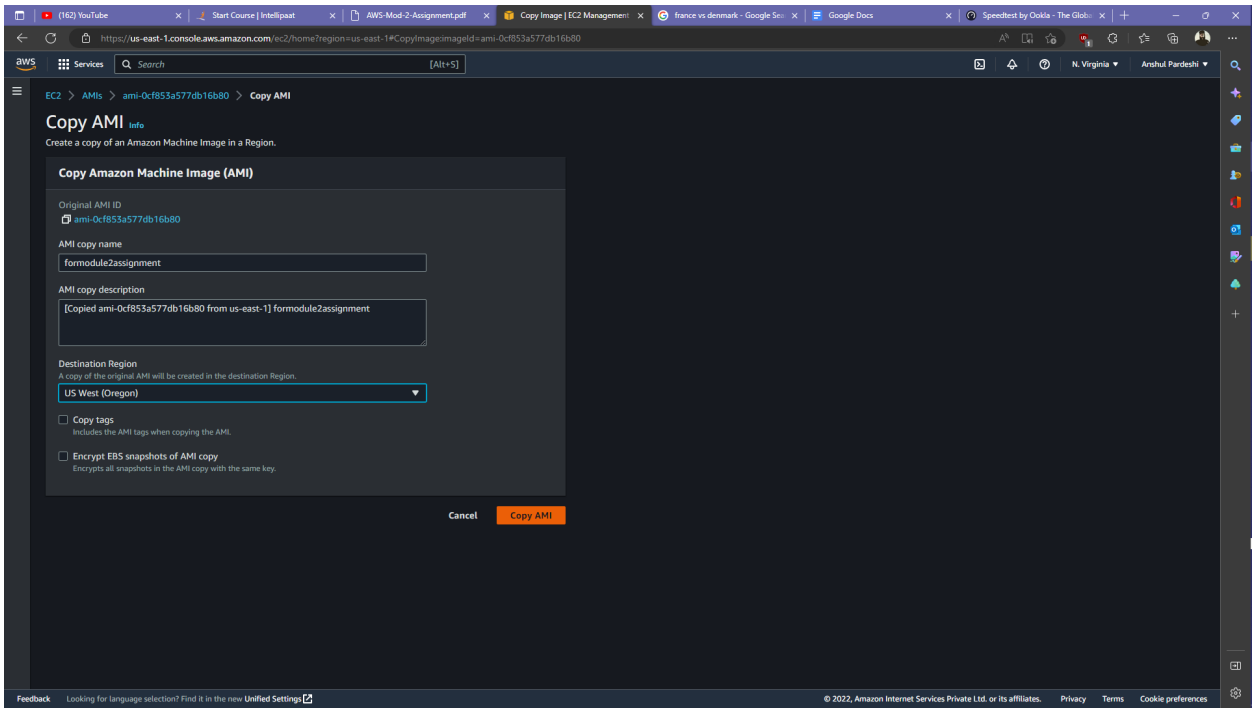
Now we need to manage through AMI so created AMI



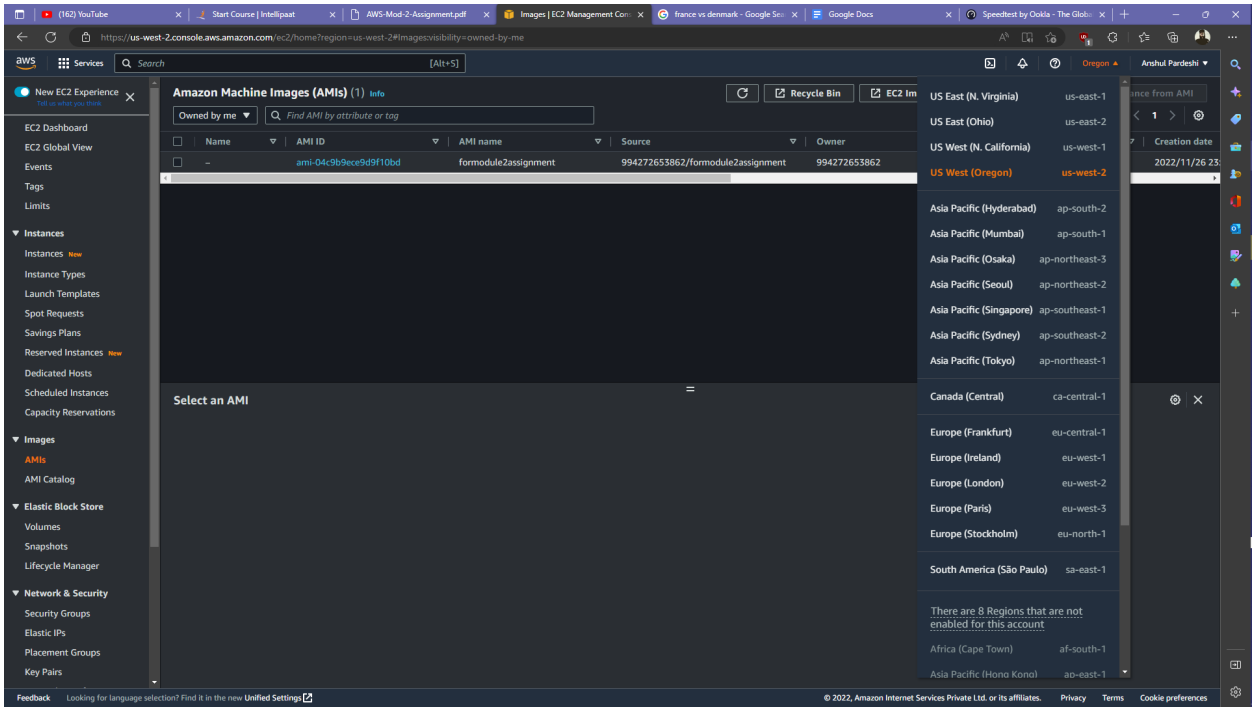


2. Replicate the instance in the us-west-2 (Oregon) region

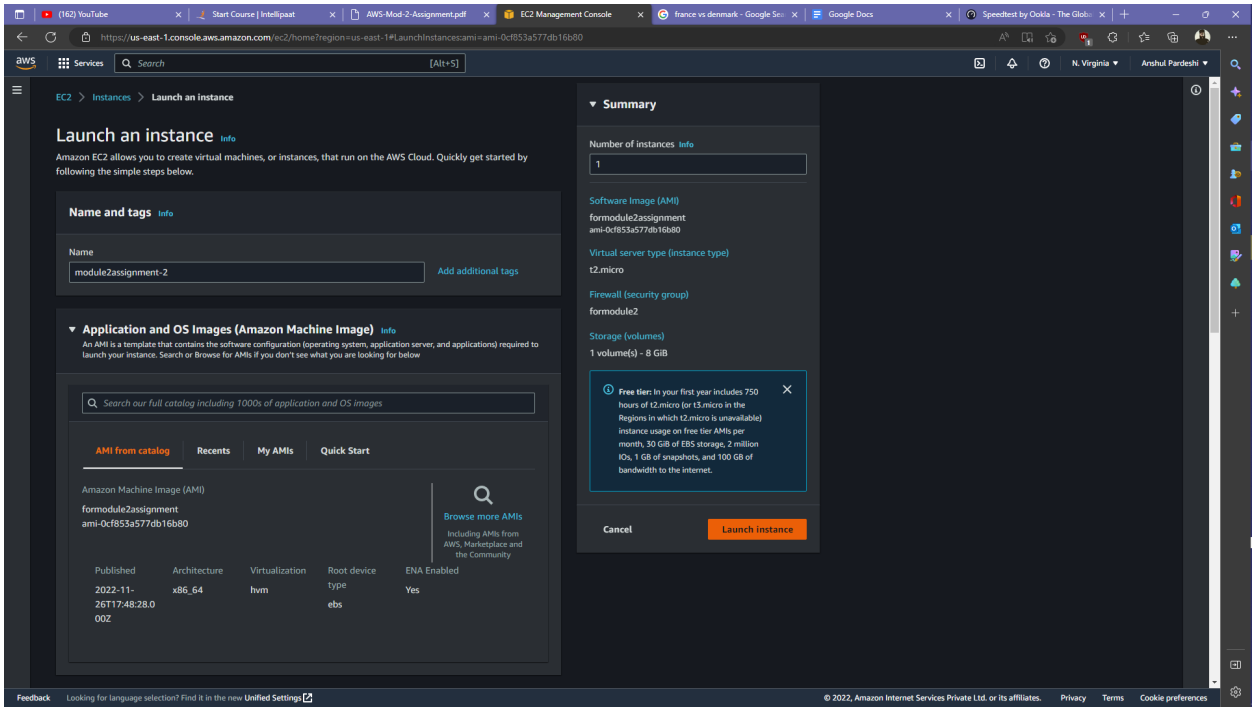
We copy that AMI to us-west-2 (Oregon) region



We switch Region to Create instance through AMI

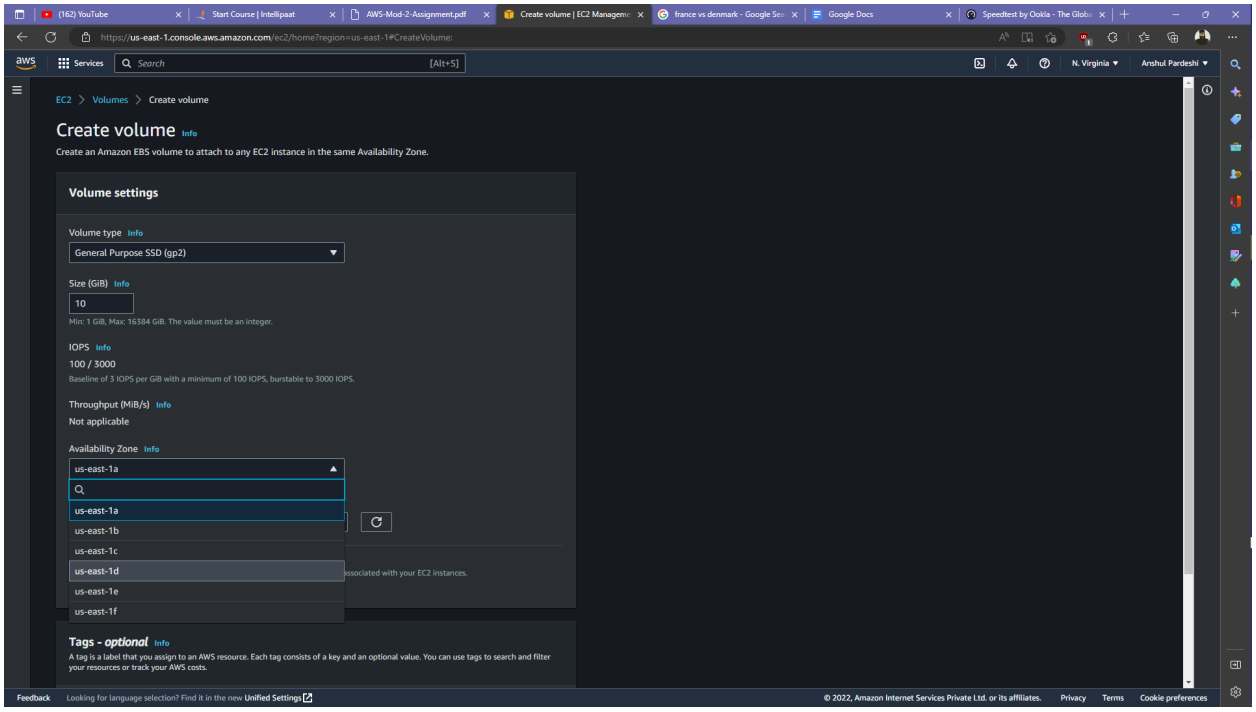


And another Instance is created in us-west-2 (Oregon) region using AMI

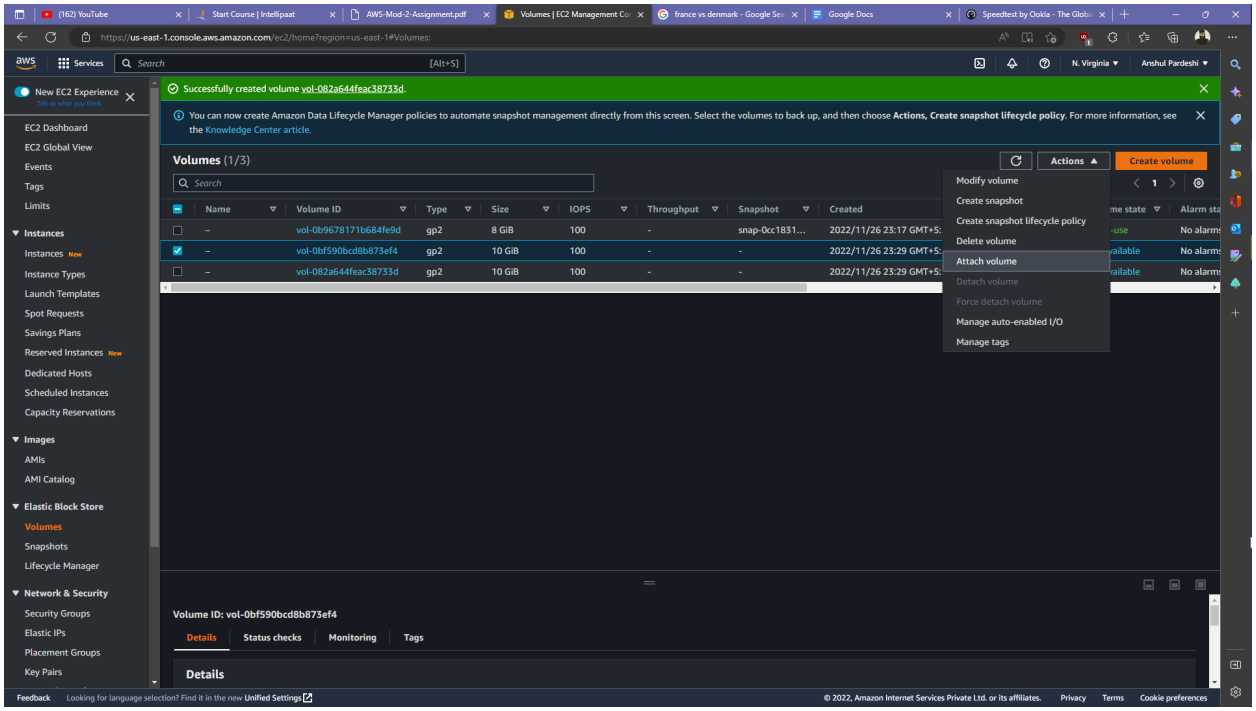


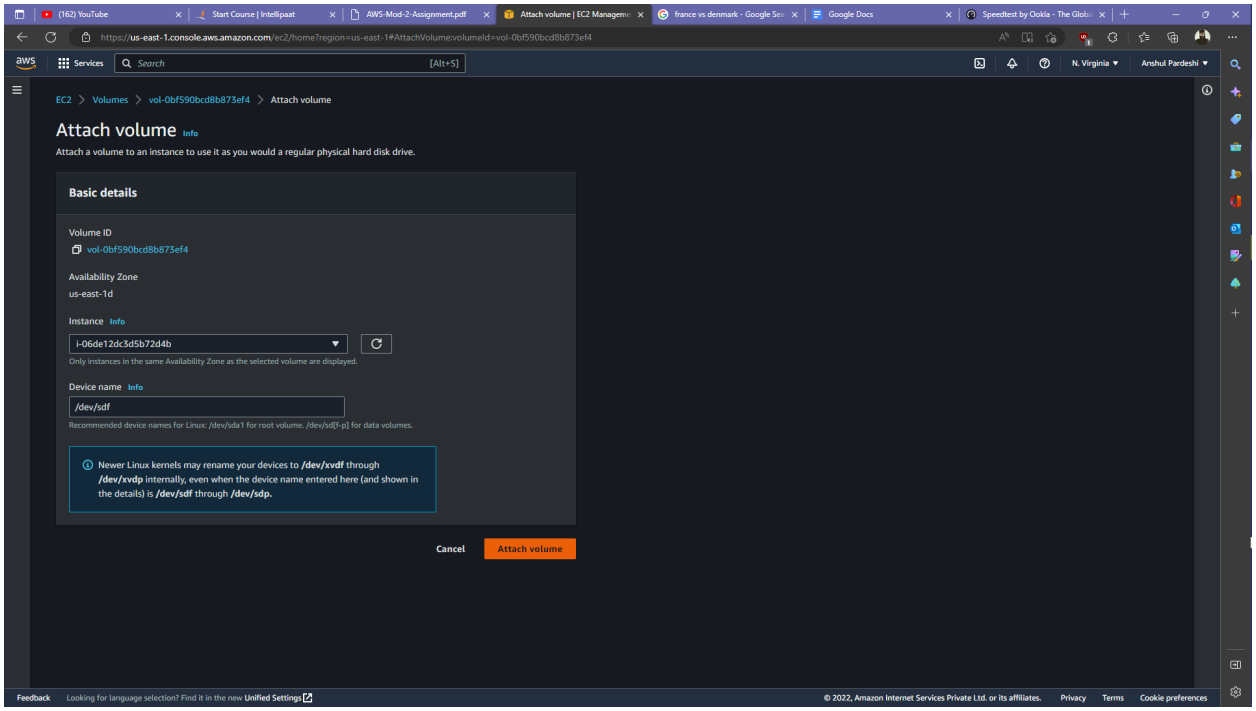
3. Build two EBS volumes and attach them to the instance in the us-east-1 (N. Virginia) region.

We create 2 EBS volumes **in the same Availability zone as to the instance** to which we need to attach this EBS volume.



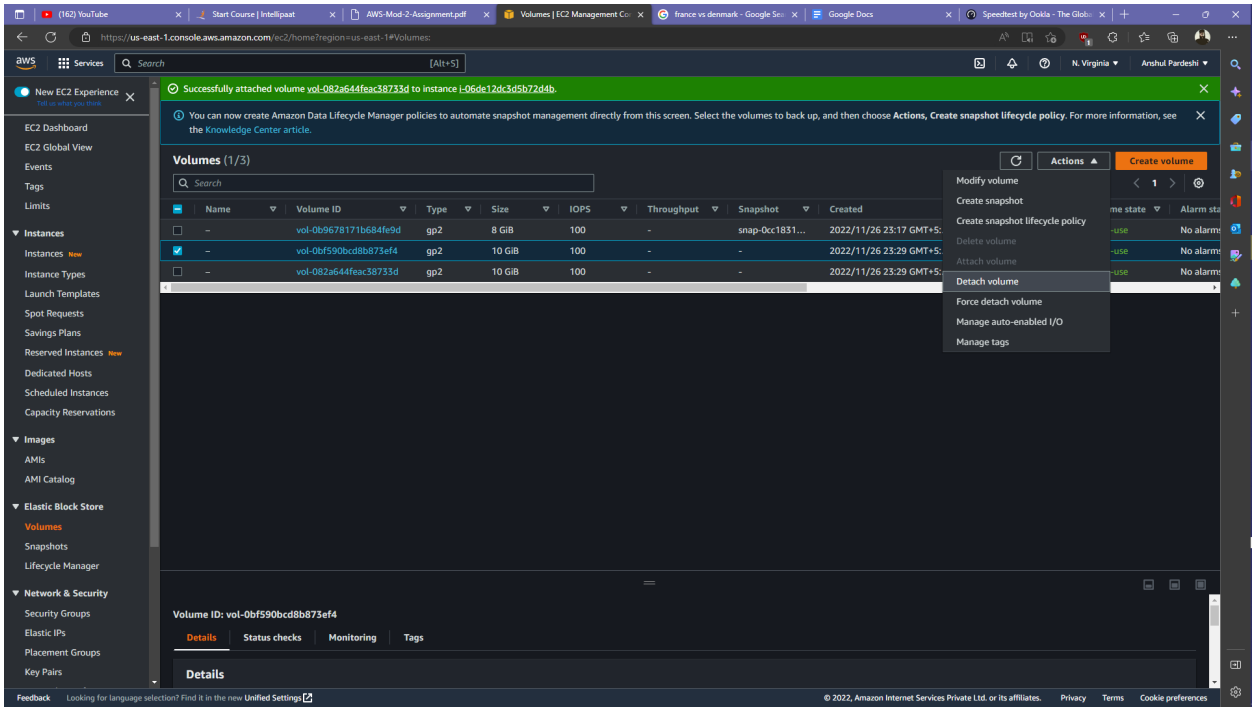
Attach it to the US east 1 instance. Repeat the step for another EBS vol as well



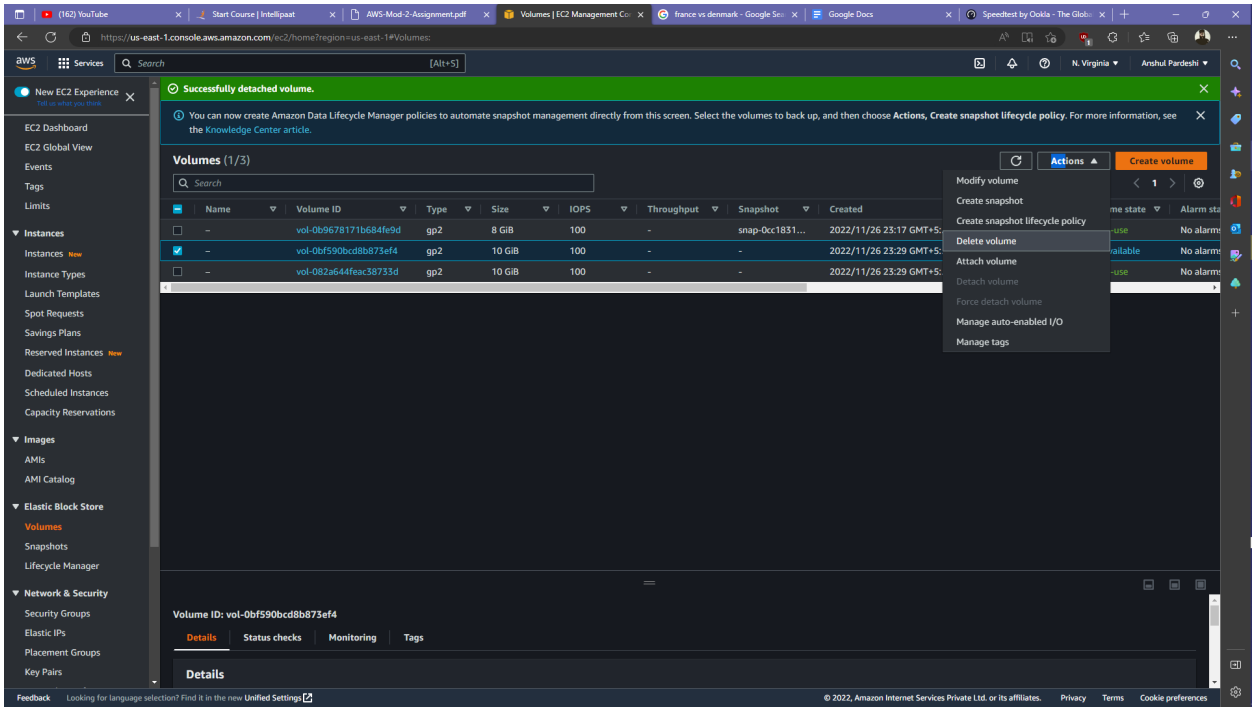


4. Delete one volume after detaching it and extend the size of the other volume

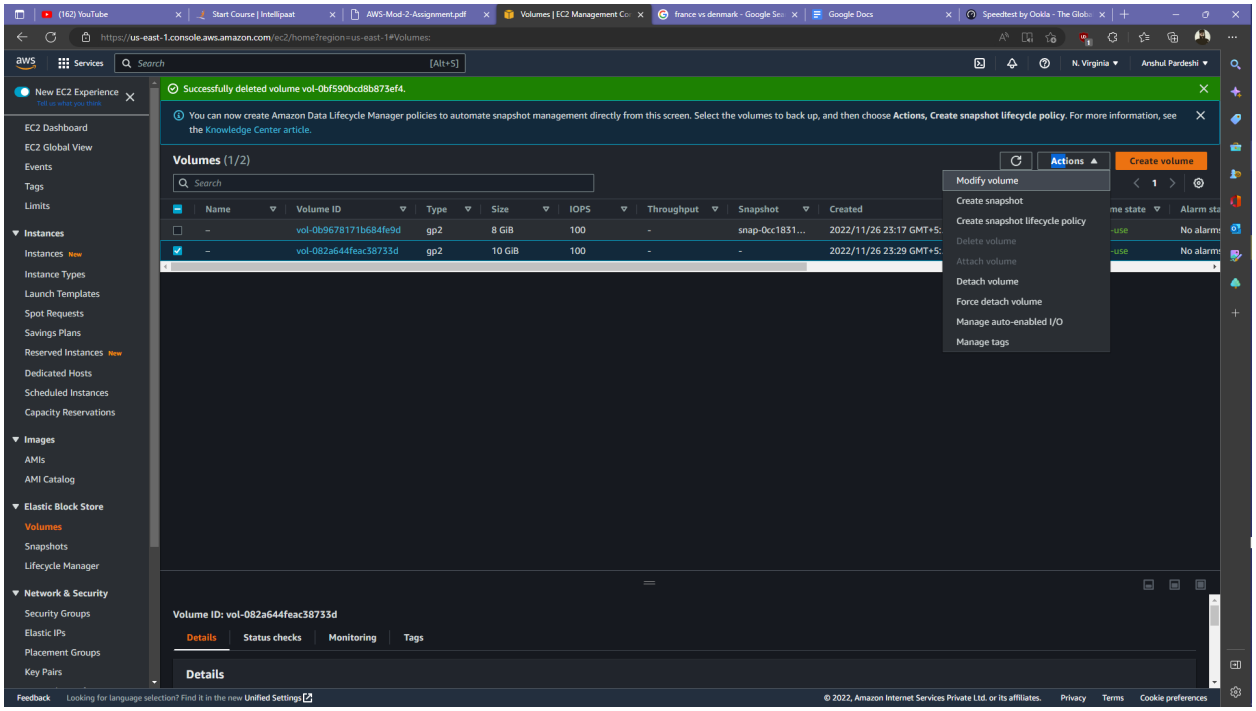
We select and detach any one volume first

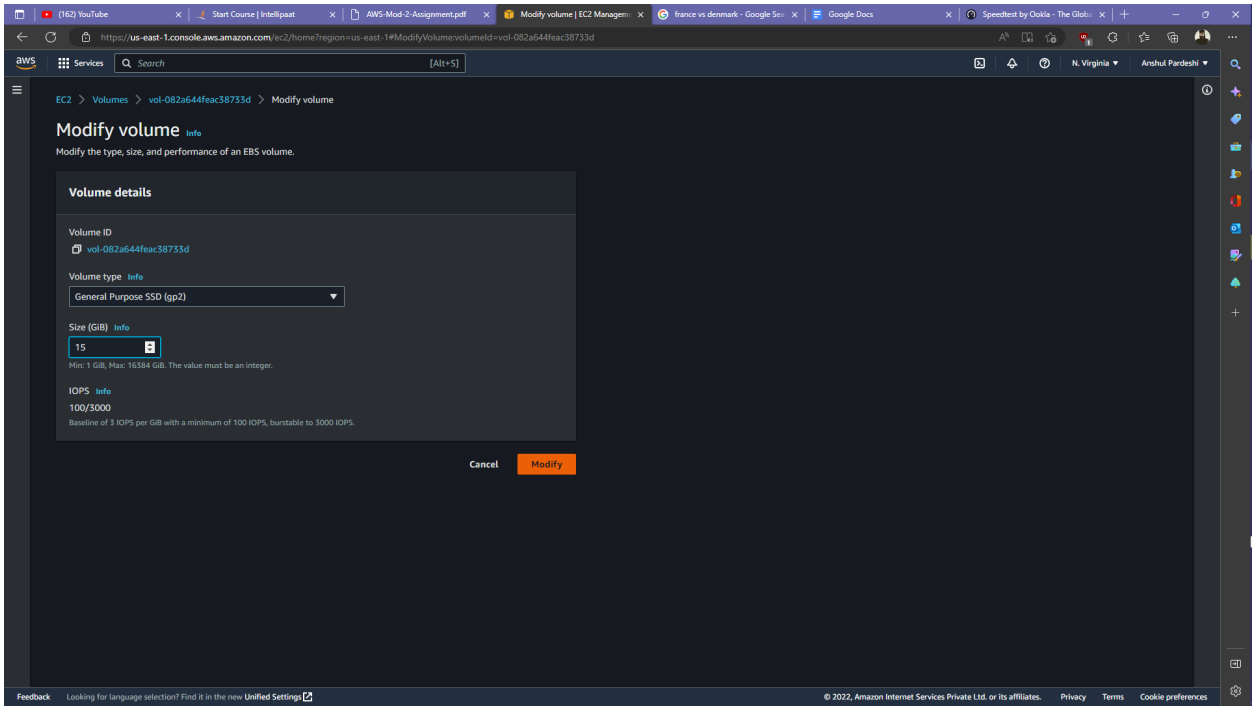


Then we select and delete it



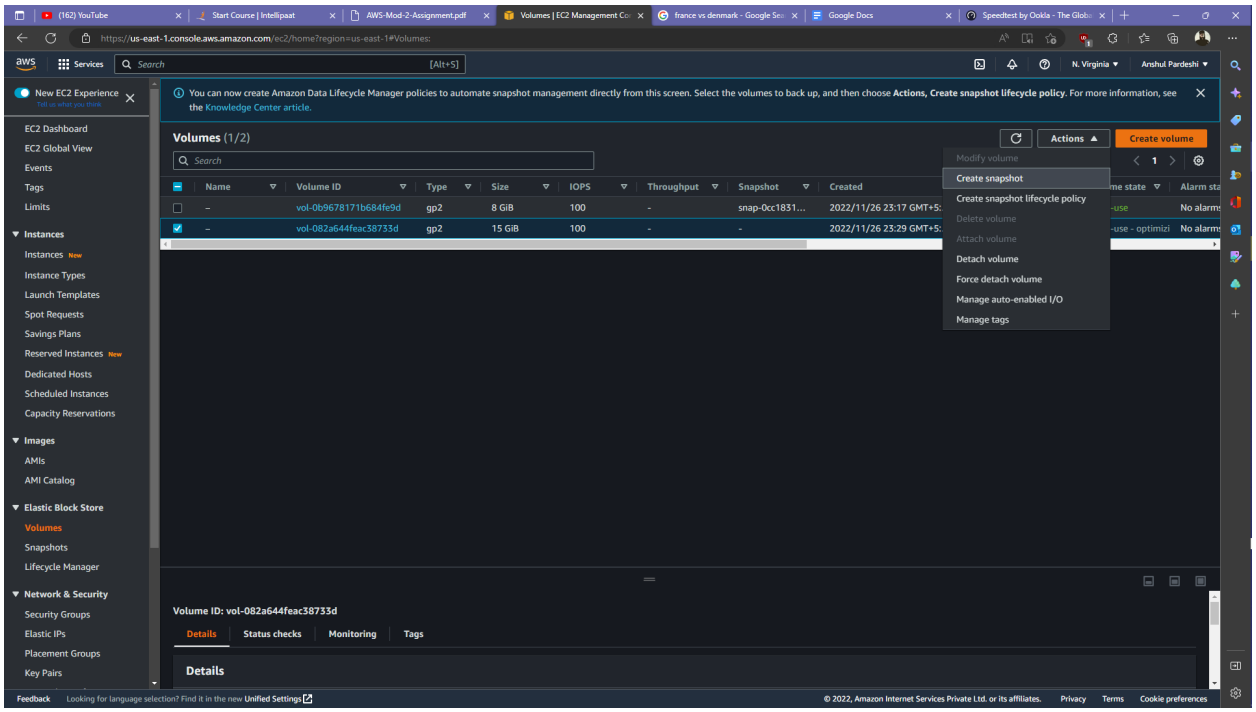
To extend the size we modify the another volume.





5. Take a backup of this EBS volume

For backup, we create snapshot through Actions drop down menu by selecting that volume.



Back of that volume is reflected in ‘Snapshots’.