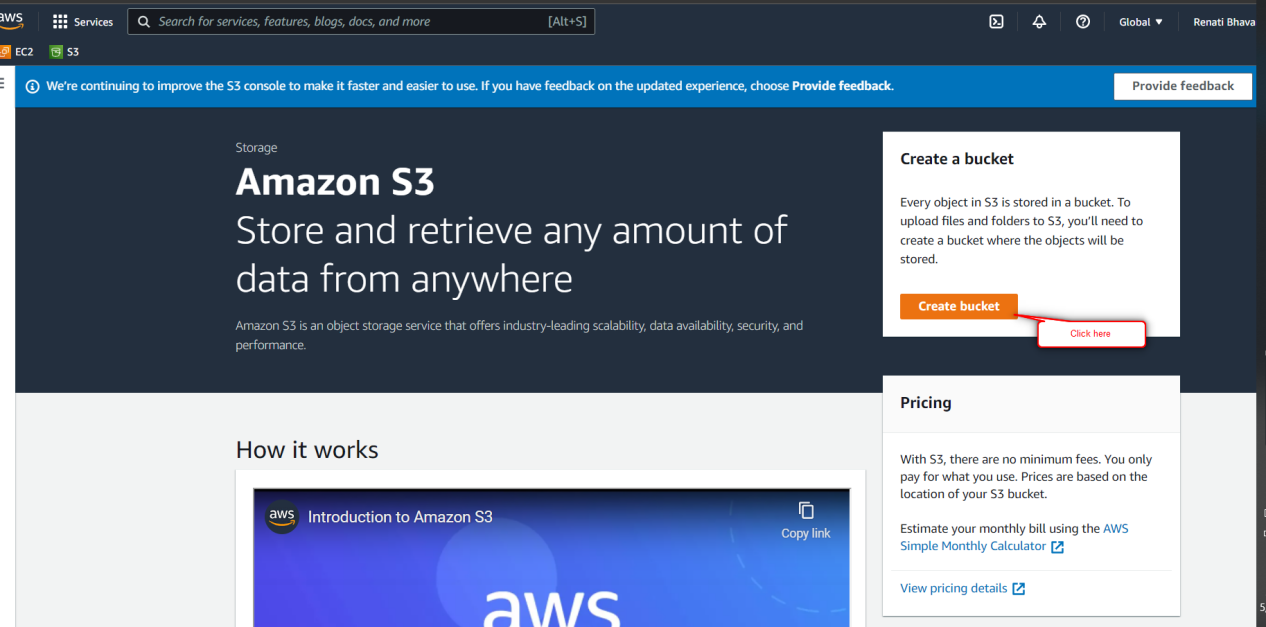
**Assignment- 10-May-2022:**

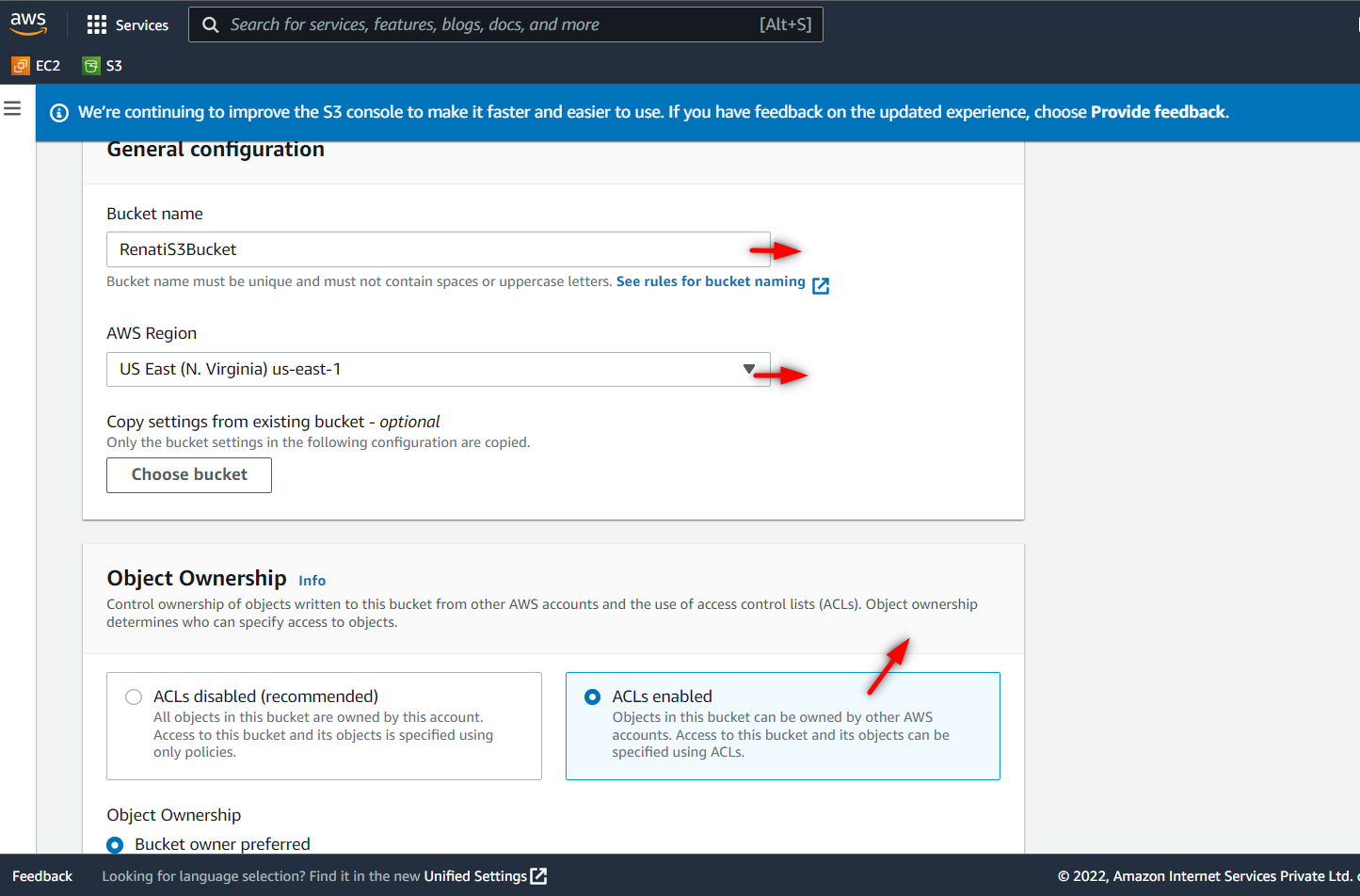
**Hands On Activity which needs to be documented:**

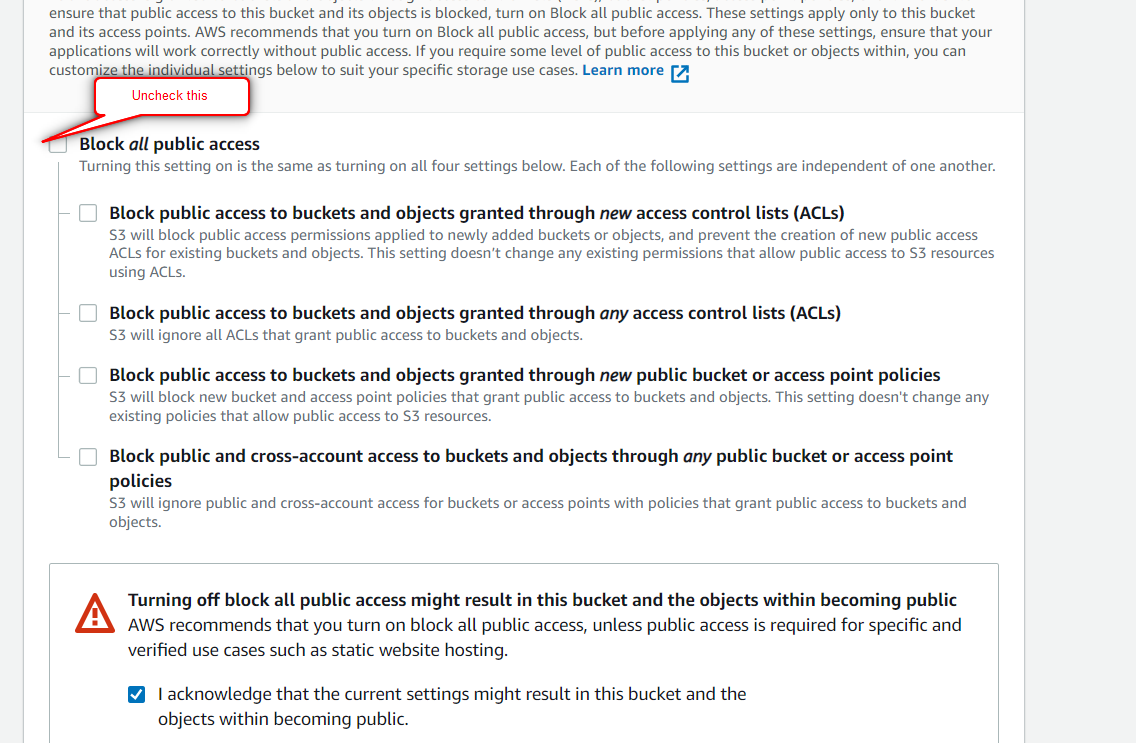
1. **Create an S3 bucket and upload html data in txt file**

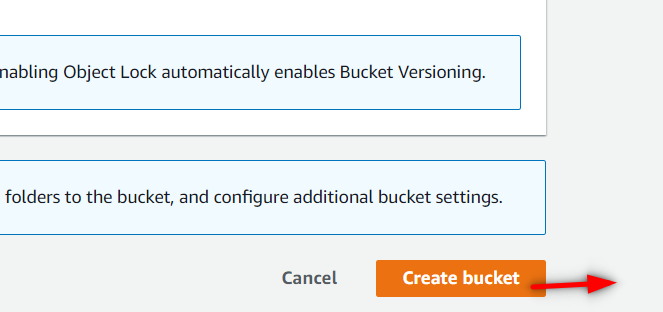
**To create a bucket … Go to S3 and click on create bucket as shown in below.**

****

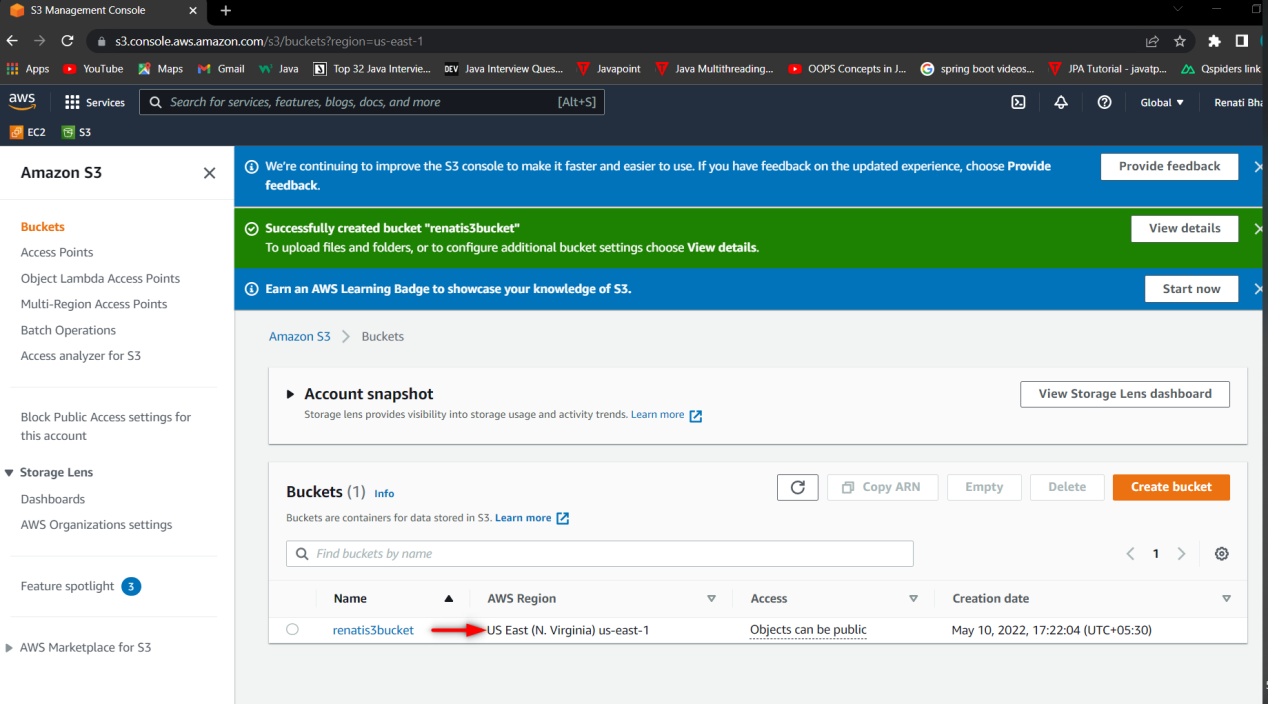
**Give bucket name and region and enbale the ACLs, uncheck the block of public access. And click on create button.**

****

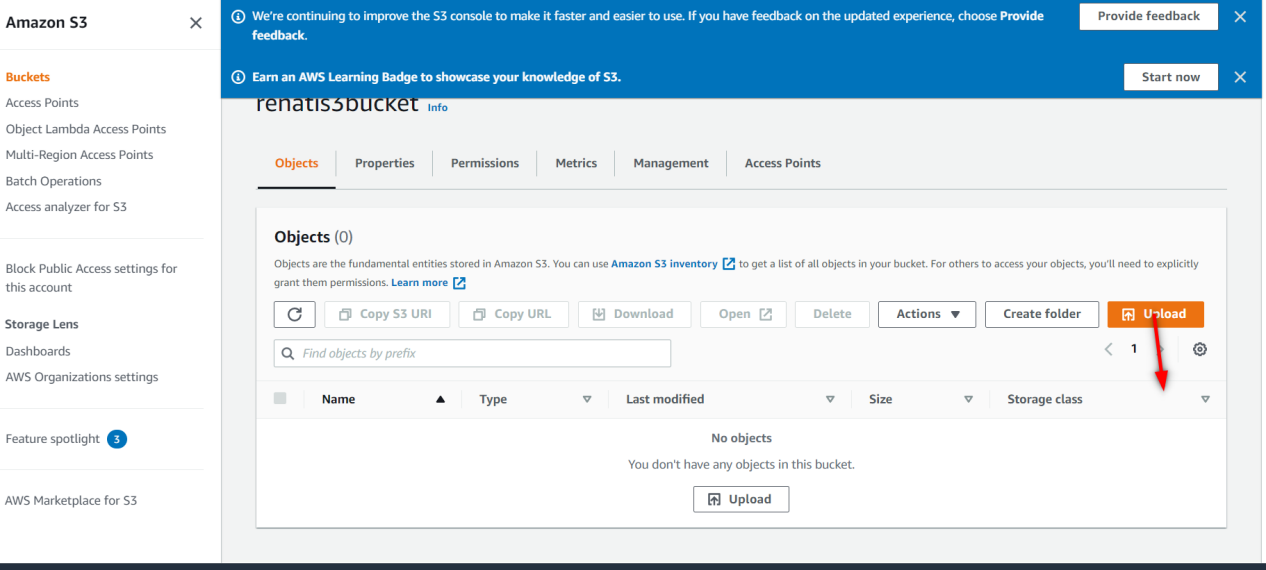
****

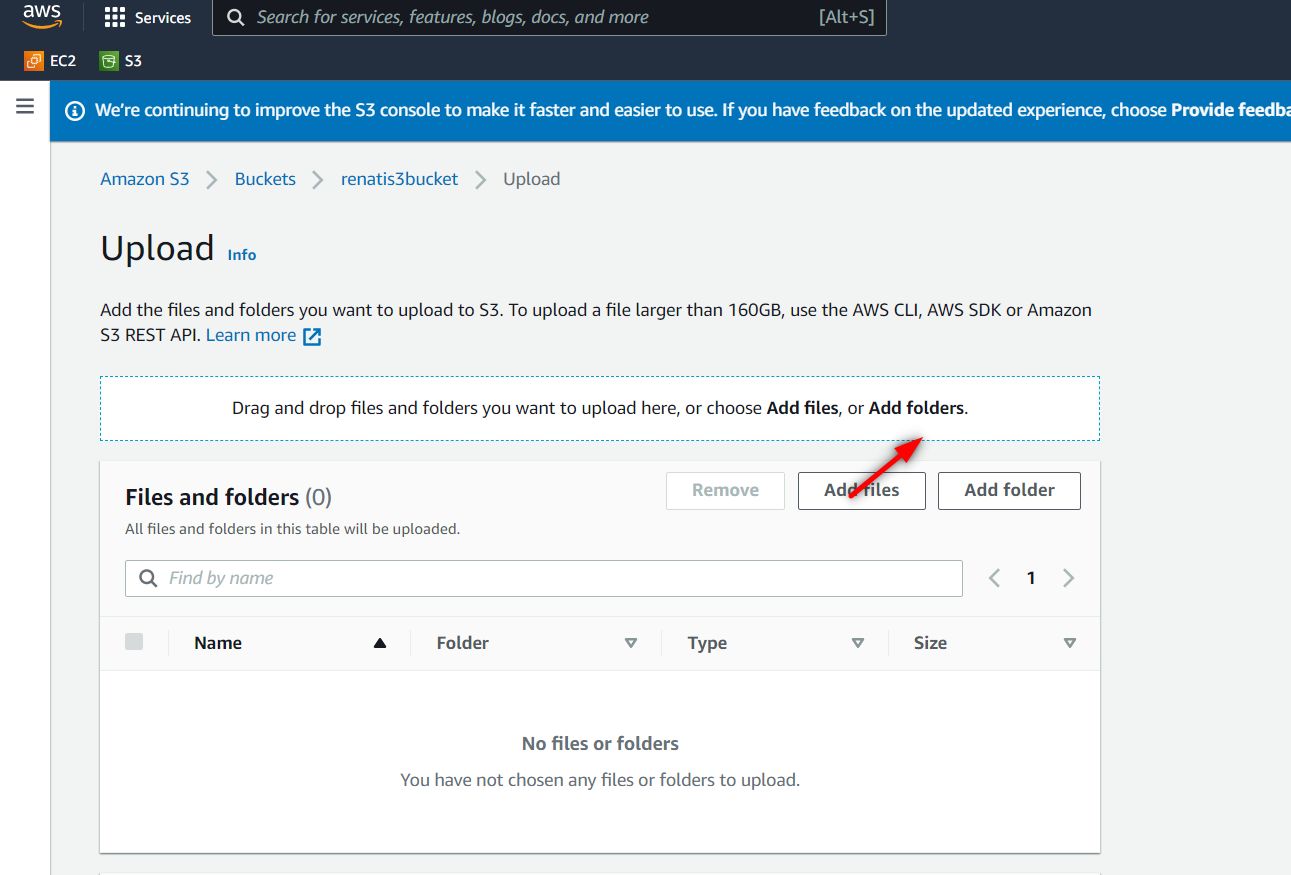
****

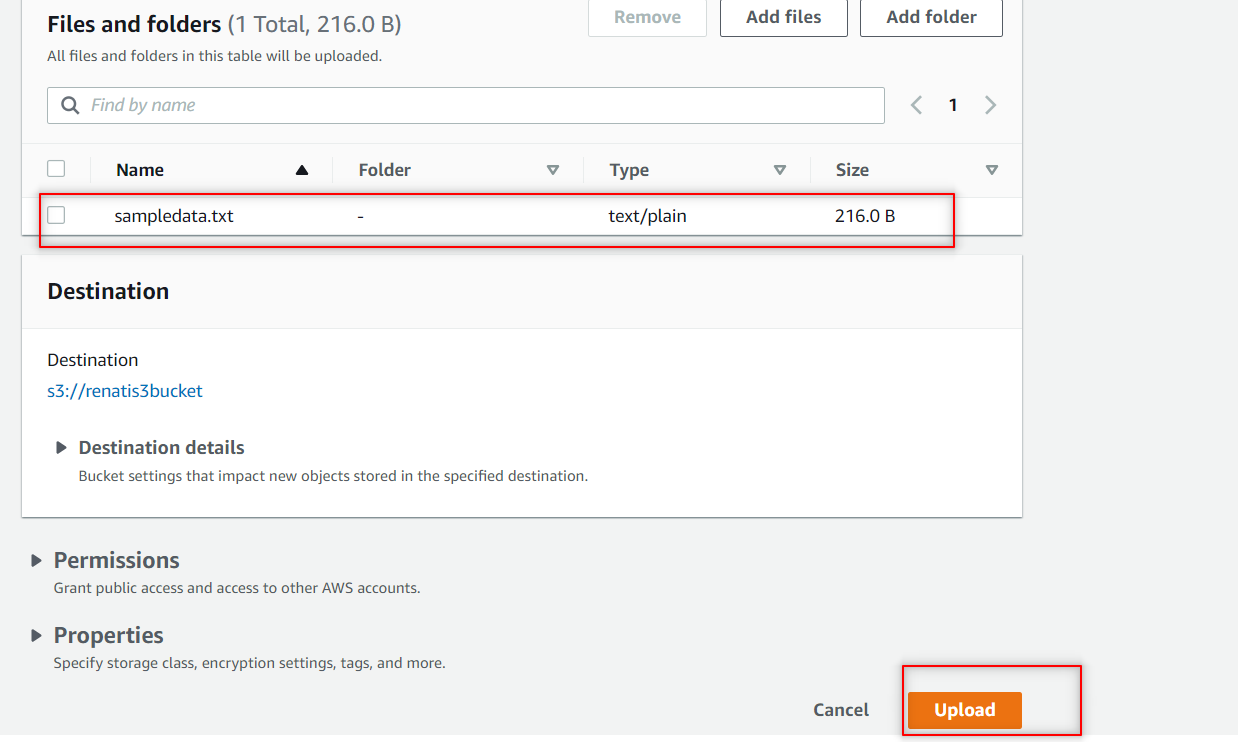
**See the bucket is created.**

****

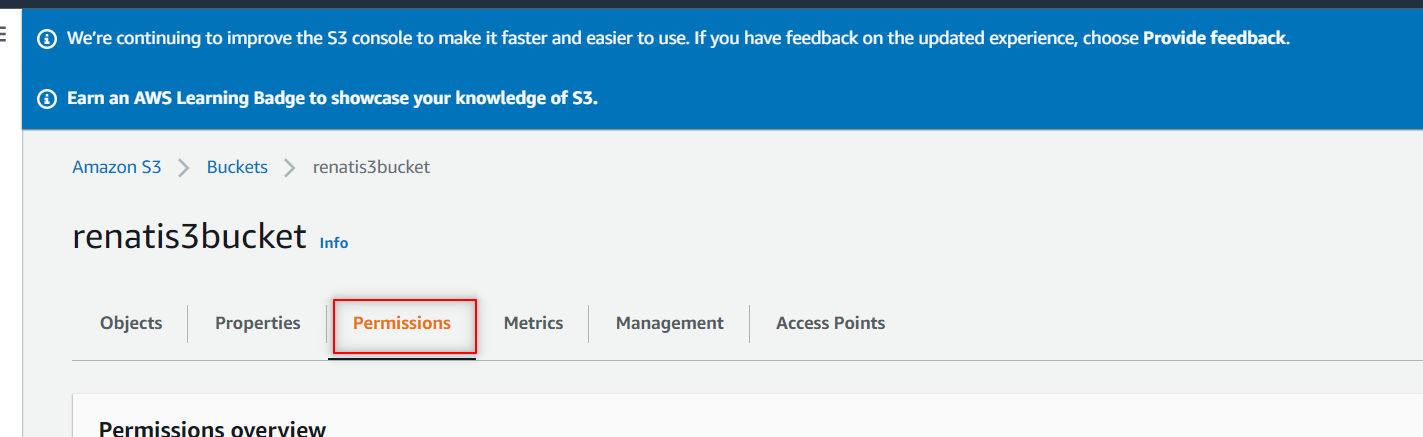
**Now upload the object/files in the bucket. To do this click on Upload button and again click on add files and add the files.**

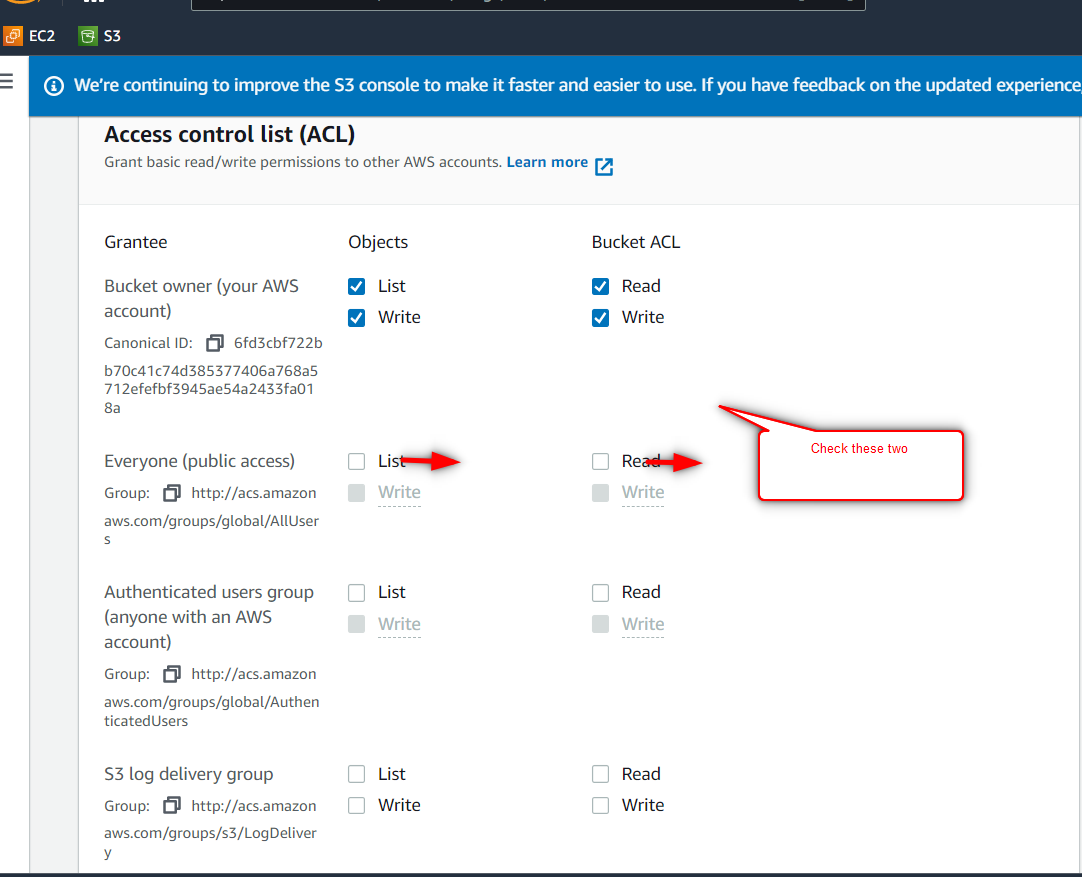
****

****

****

**Now click on permission under bucket level to provide permission to publicly access check the two buttons..**

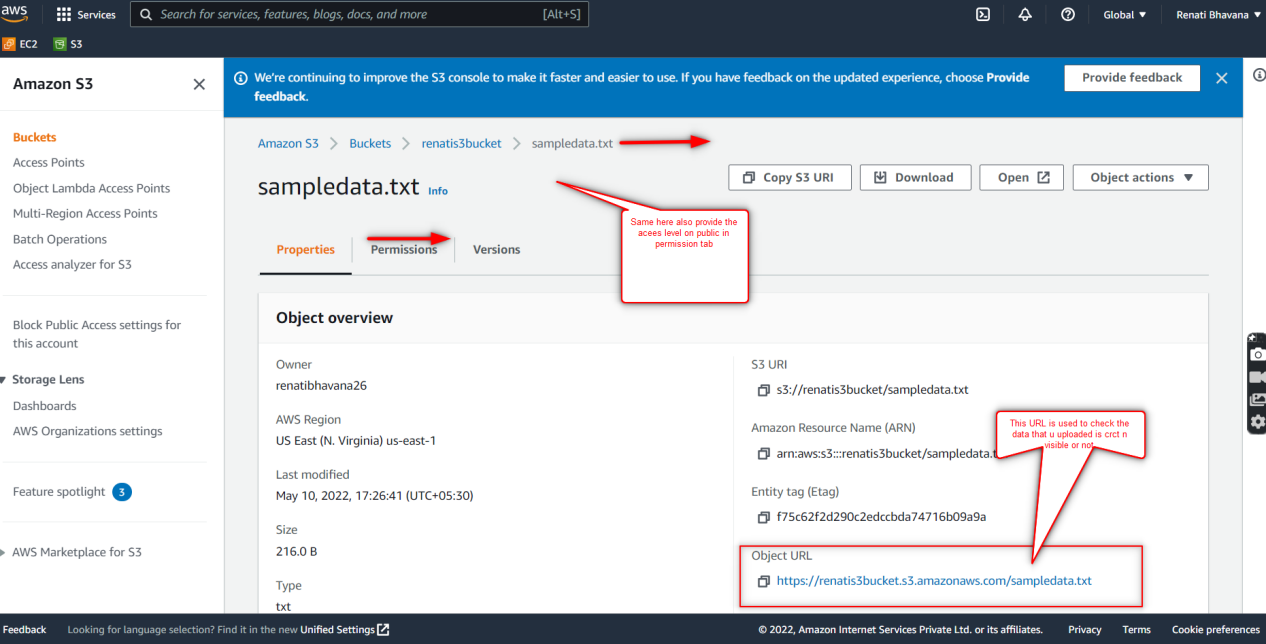
****

****

**Here u can see the bucket is publicly accessible.**

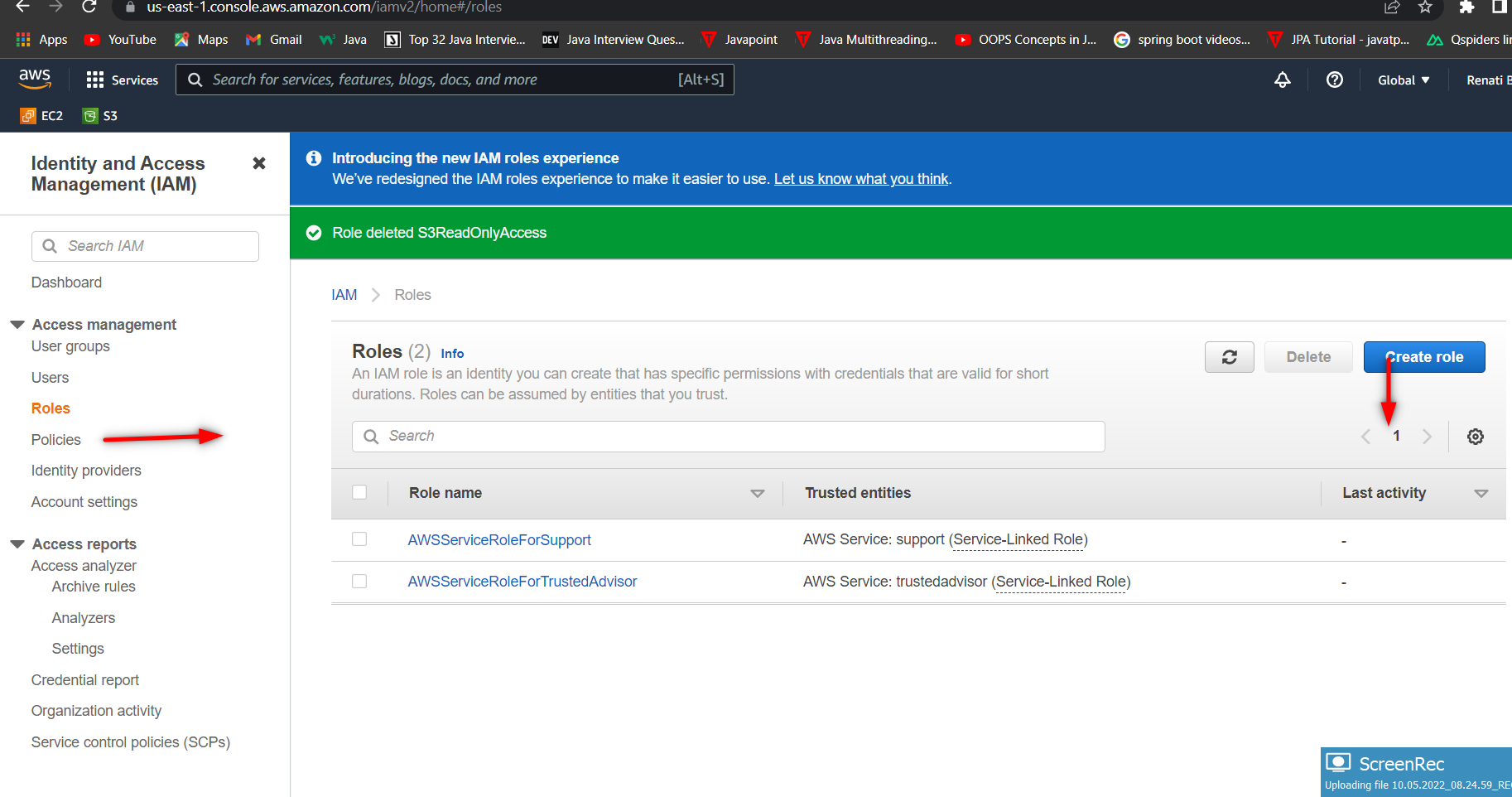
****

**Now do the same thing under object level and copy the url and paste it in google to see the data.**

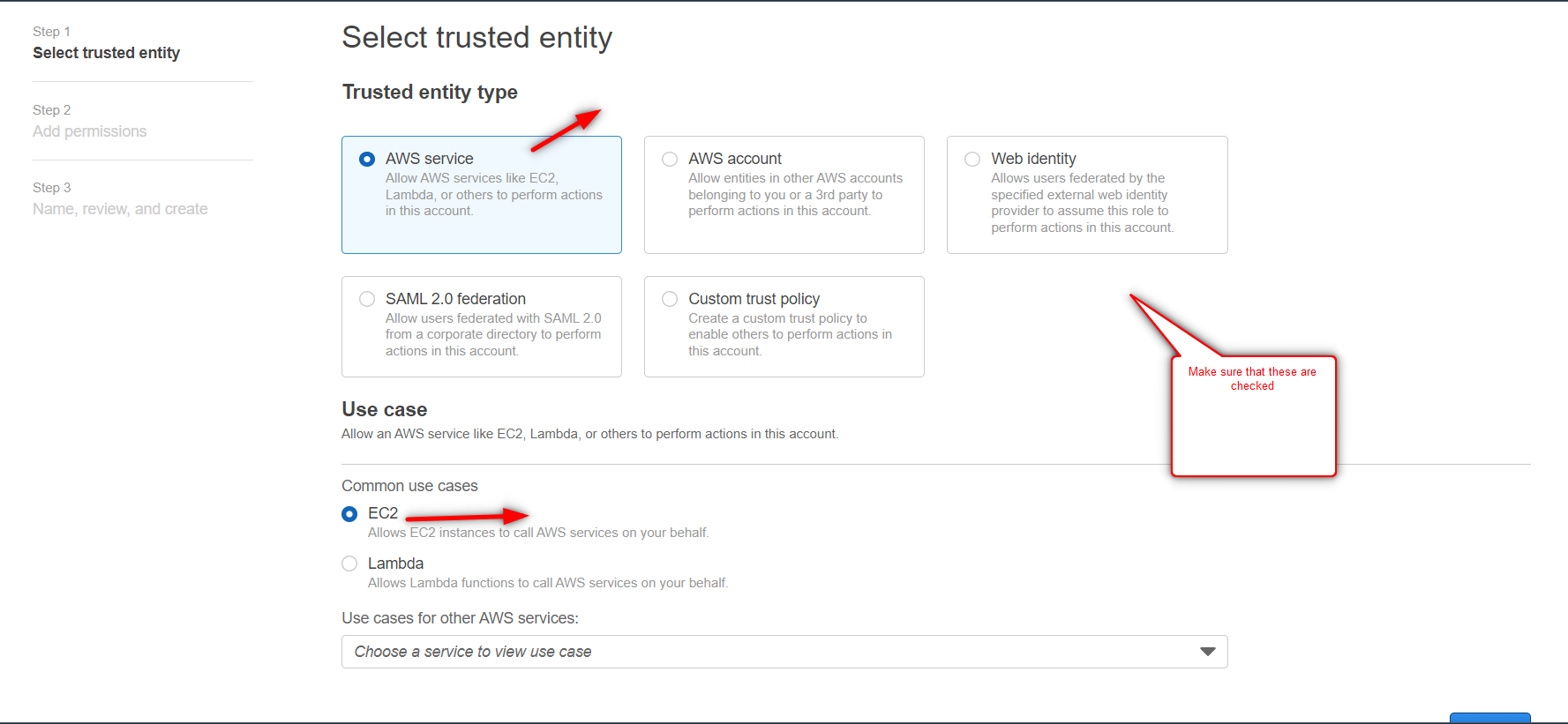
****

1. **Create a role if s3 read only is not available ?**

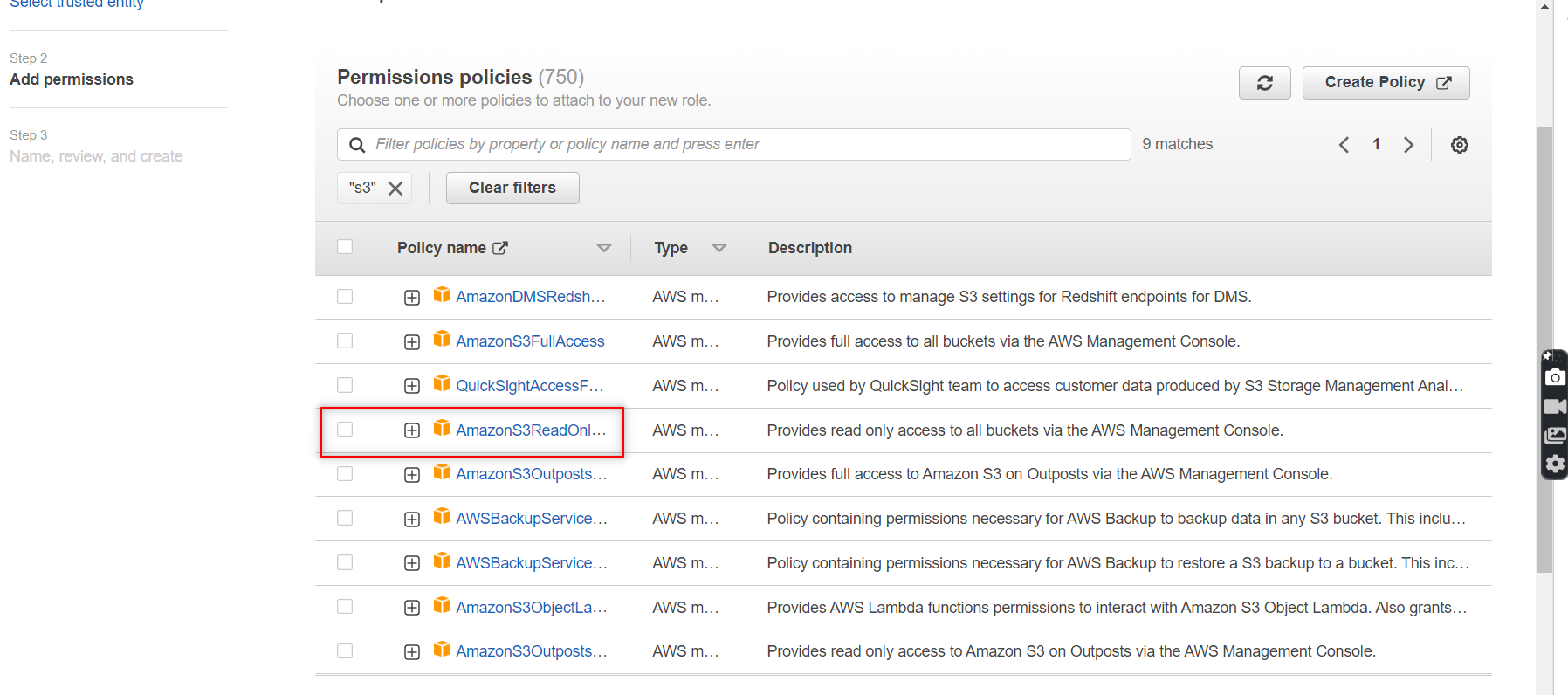
**Go to IAM ,click on Roles and click on Create role.**

****

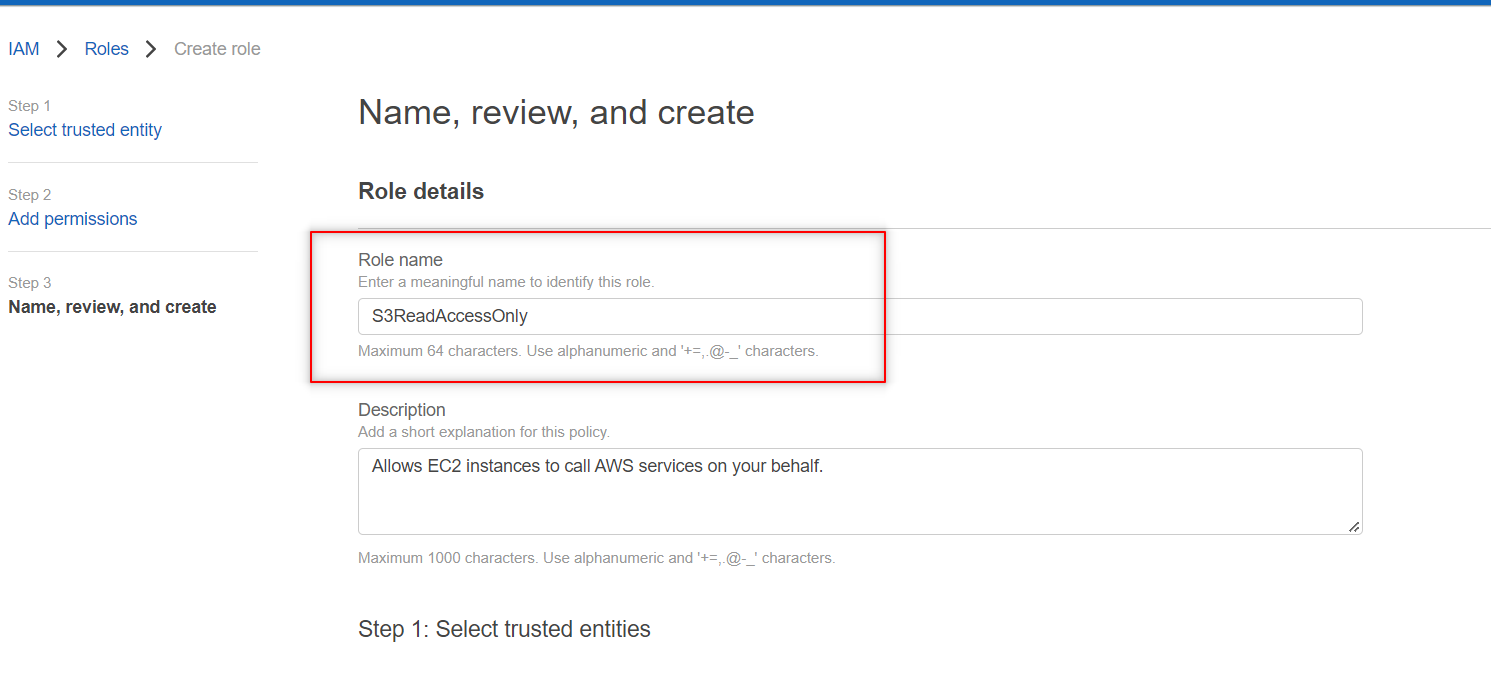
**Here provide the proper details as shown below**

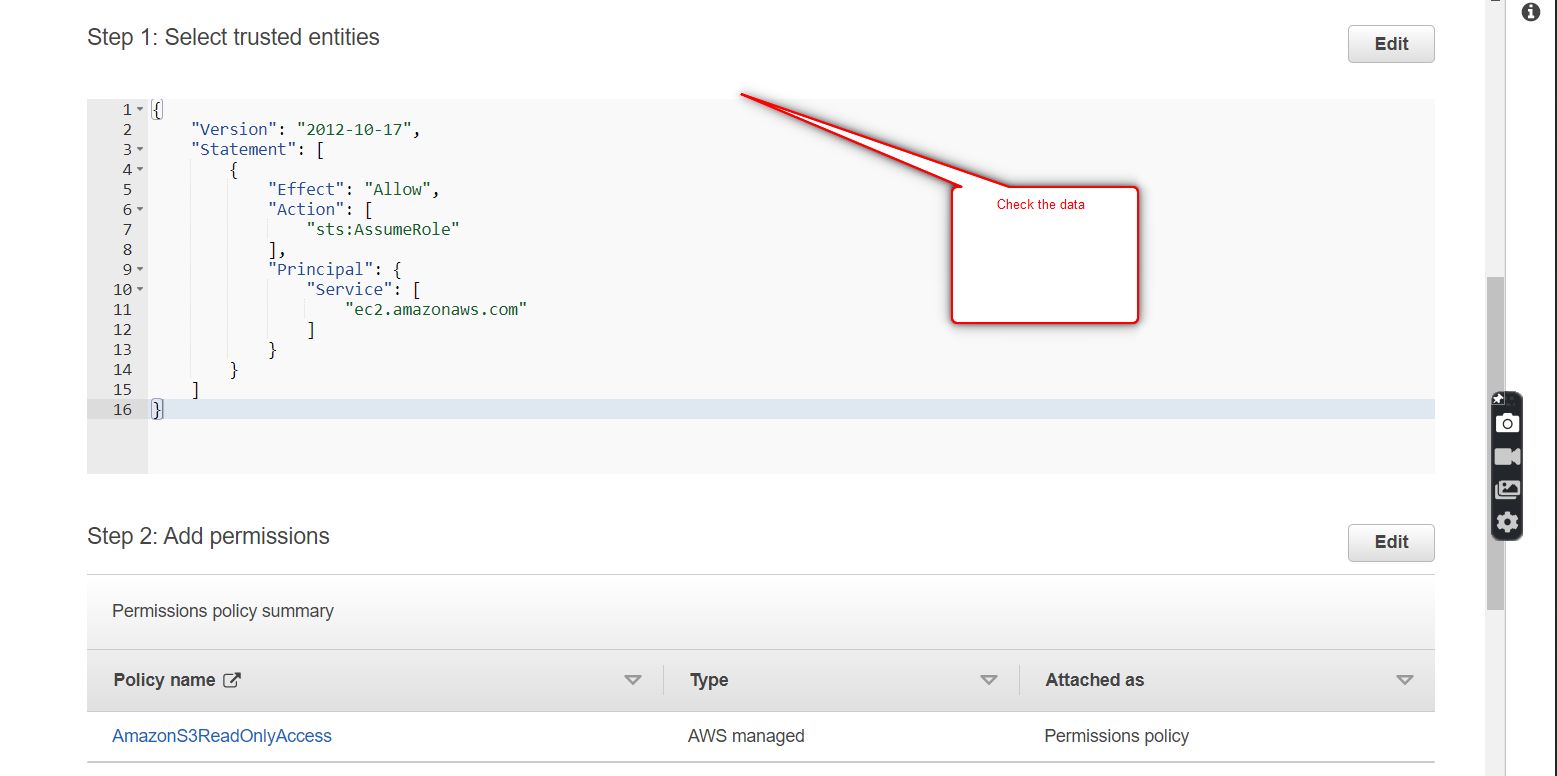
****

**Here search for S3ReadAccessOnly and click that one and click on next.**

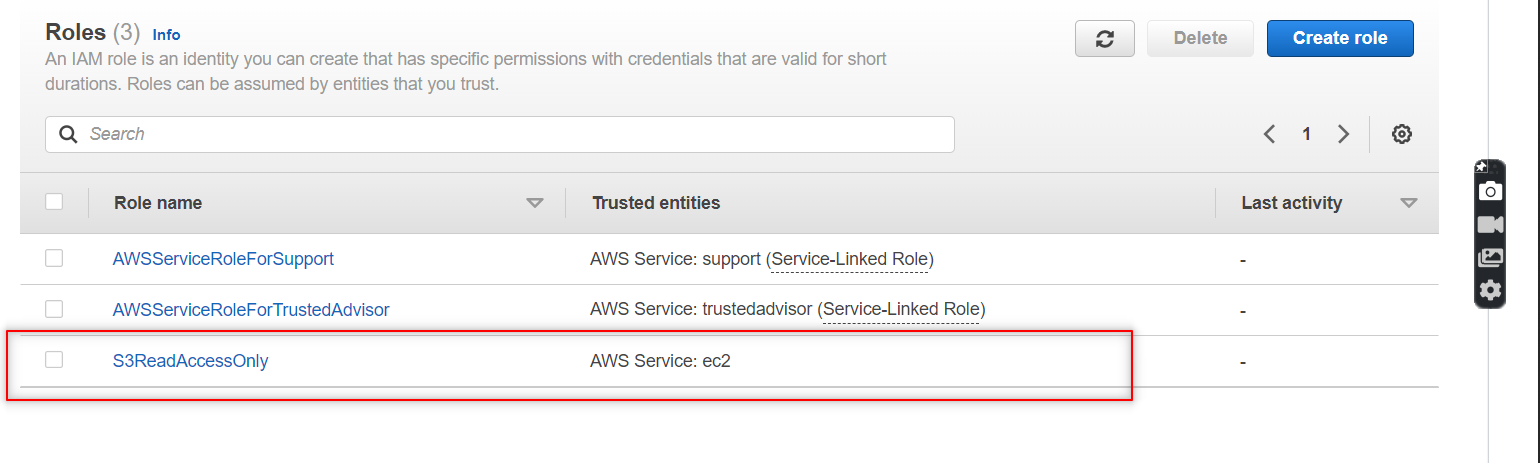
****

**Here provide the role name and see other details as well and create role.**

****

****

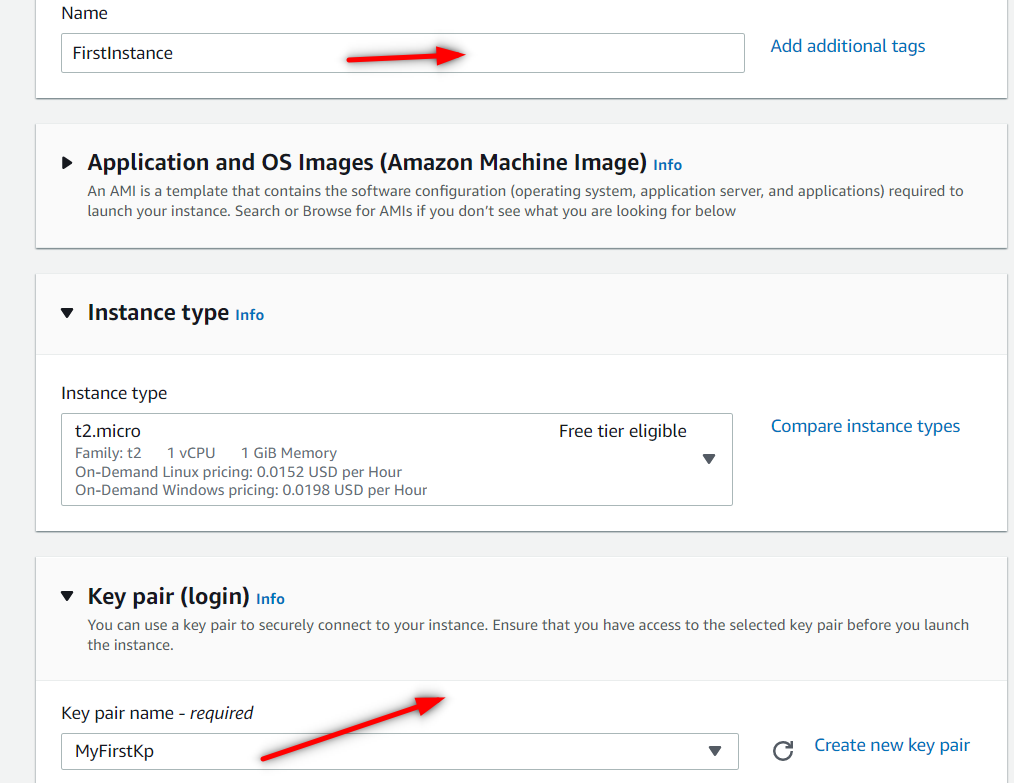
**Now u can see the role that is created.**

****

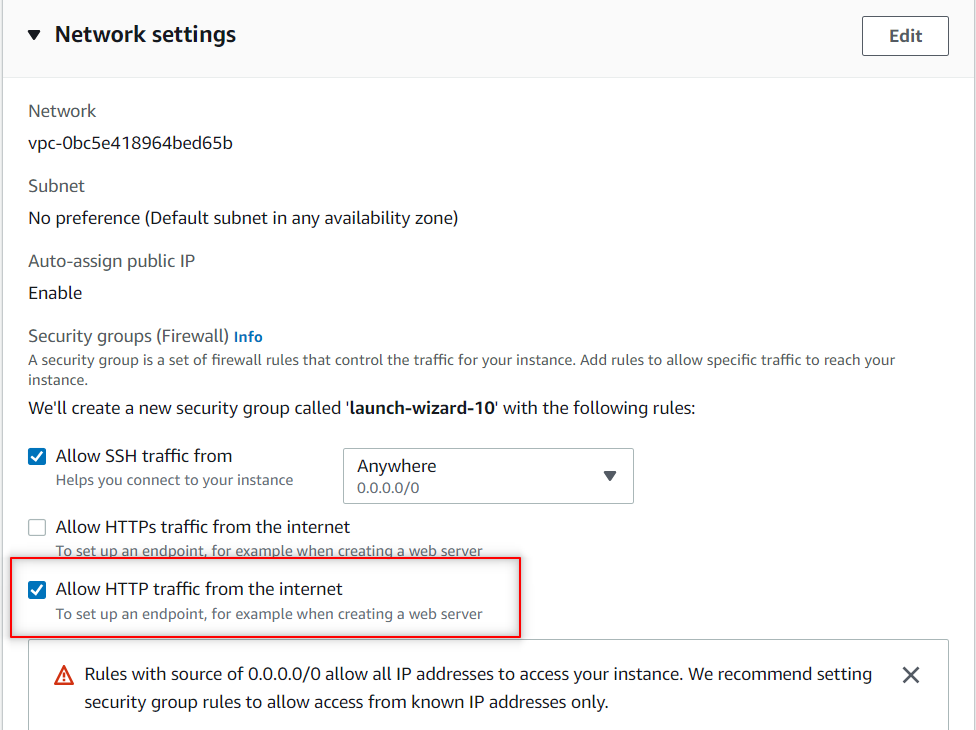
1. **Launch amazon linux 2 with user data.?**

**Now create one amazon linux EC2 instance along with user data.**

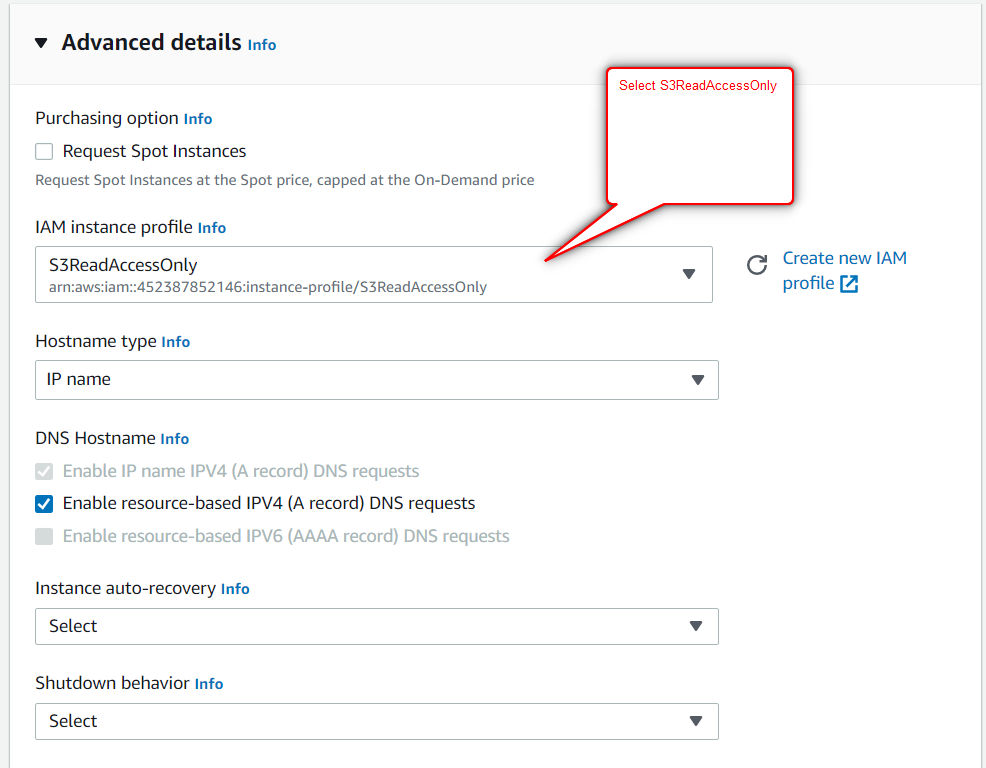
**Provide name n kp.**

****

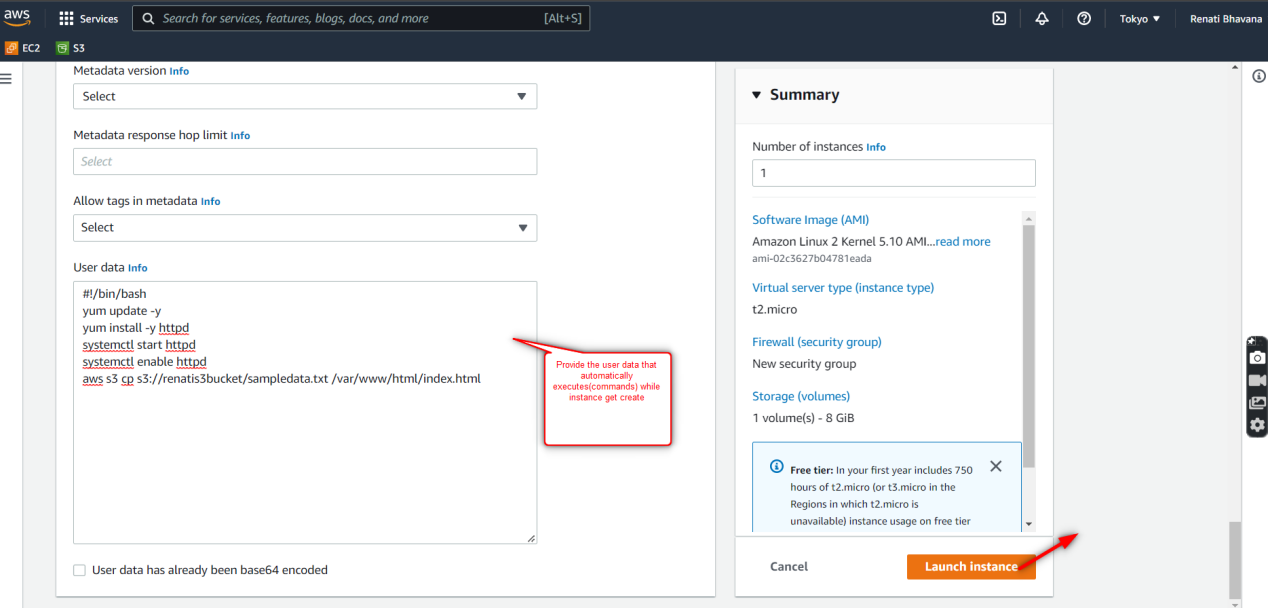
**Under network settings , allow http traffic ..**

****

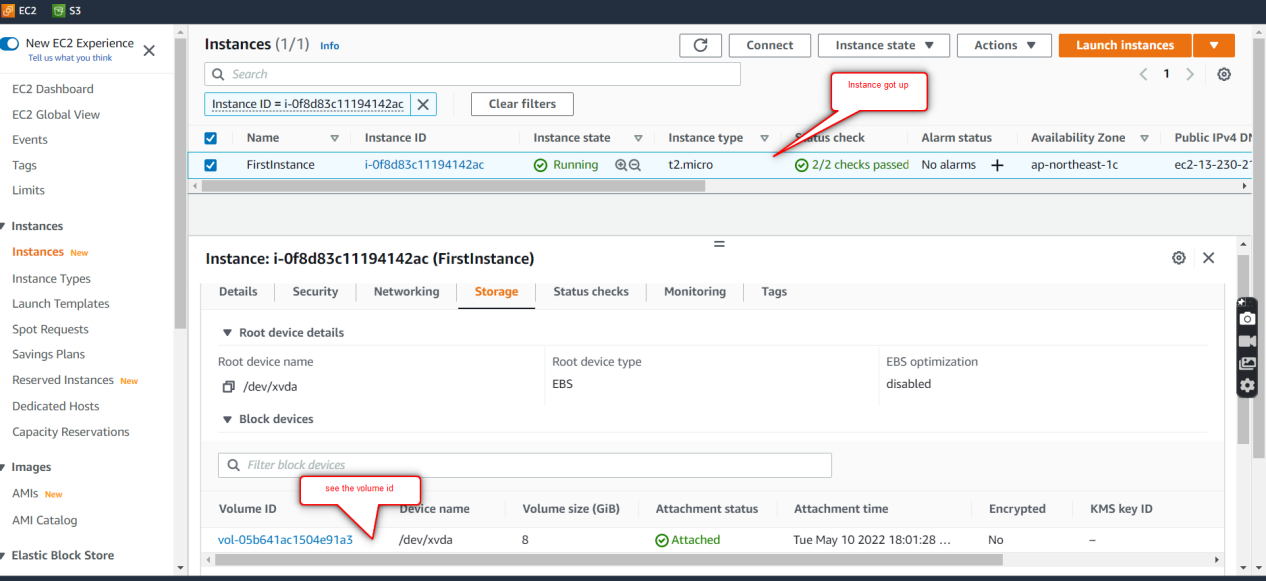
**Here add the S3ReadOnlyAccess that u created in IAM Role.**

****

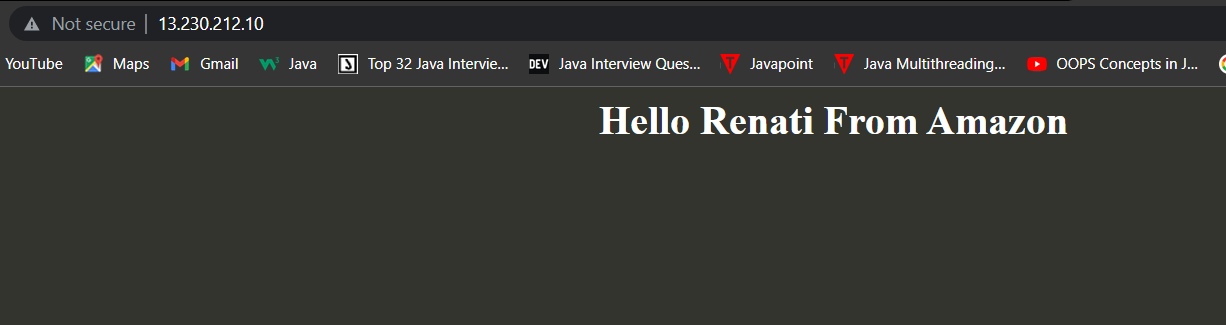
**And provide the commands which executes automatically while launching the instance and click on launch instance..**

****

**The instance get created.here go to storage and see the volume ID and as well check the availability zone that u created the instance.**

****

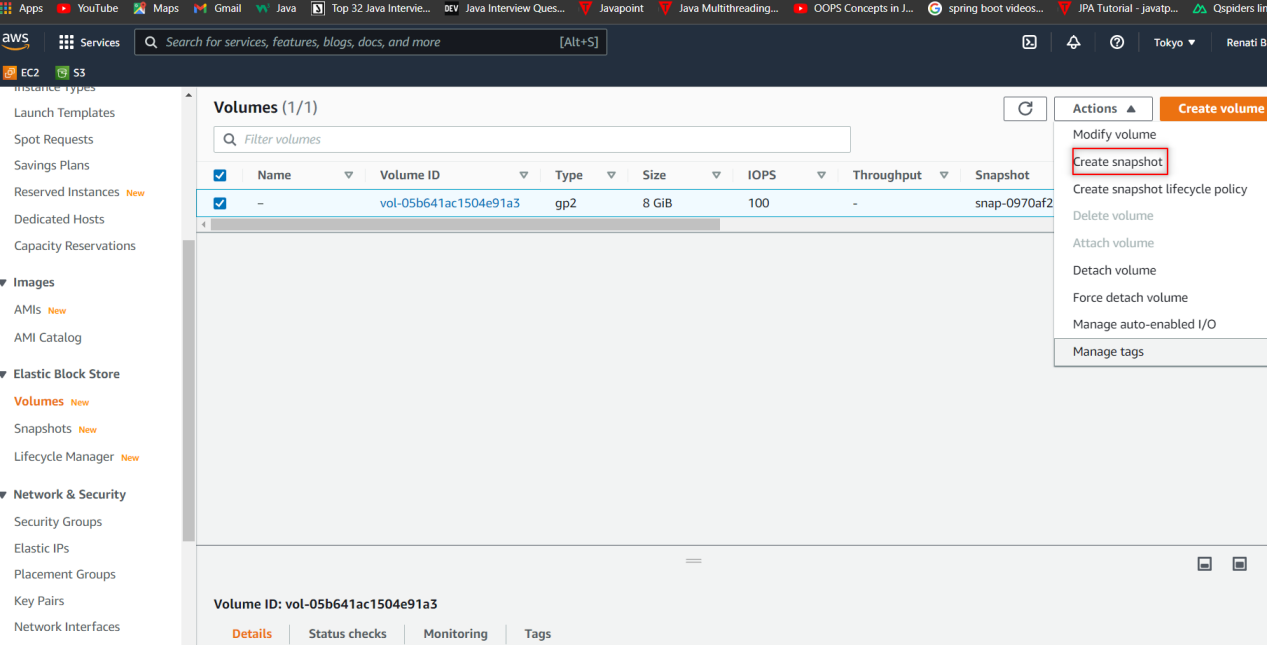
**Copy the public IP and paste it in google , u can see the output that the user uploaded the file in bucket.**

****

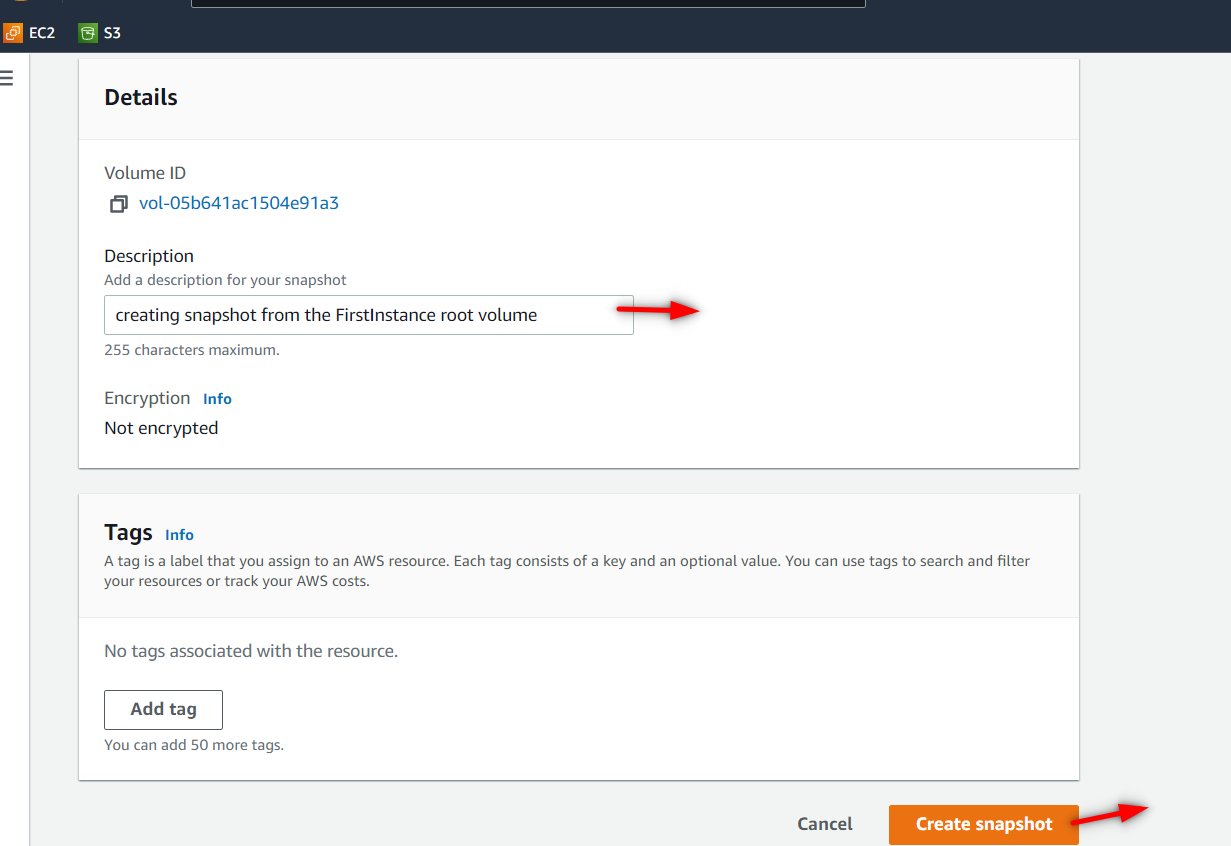
1. **Create a snapshot from the volume.**

**From the created instance . create the snapshot from the root volume.**

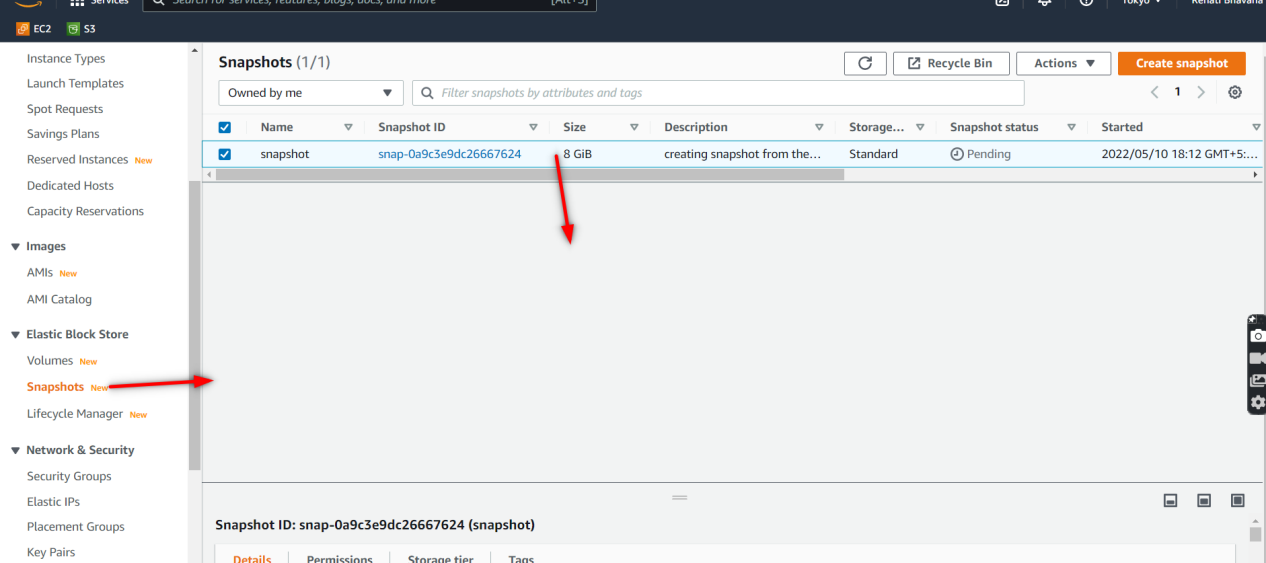
**Go to volume which is present in the left side and go to actions as shown in below and click on create snapshot.**

****

**Provide the description and click on create snapshot.**

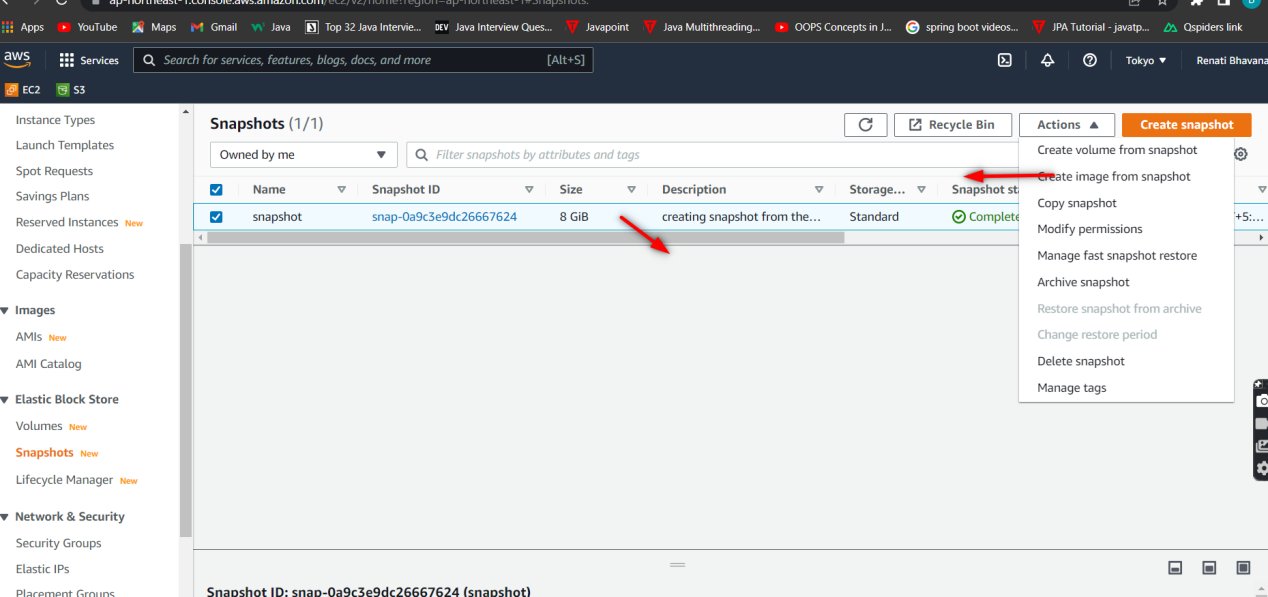
****

**Here u can see the snapshot got created.**

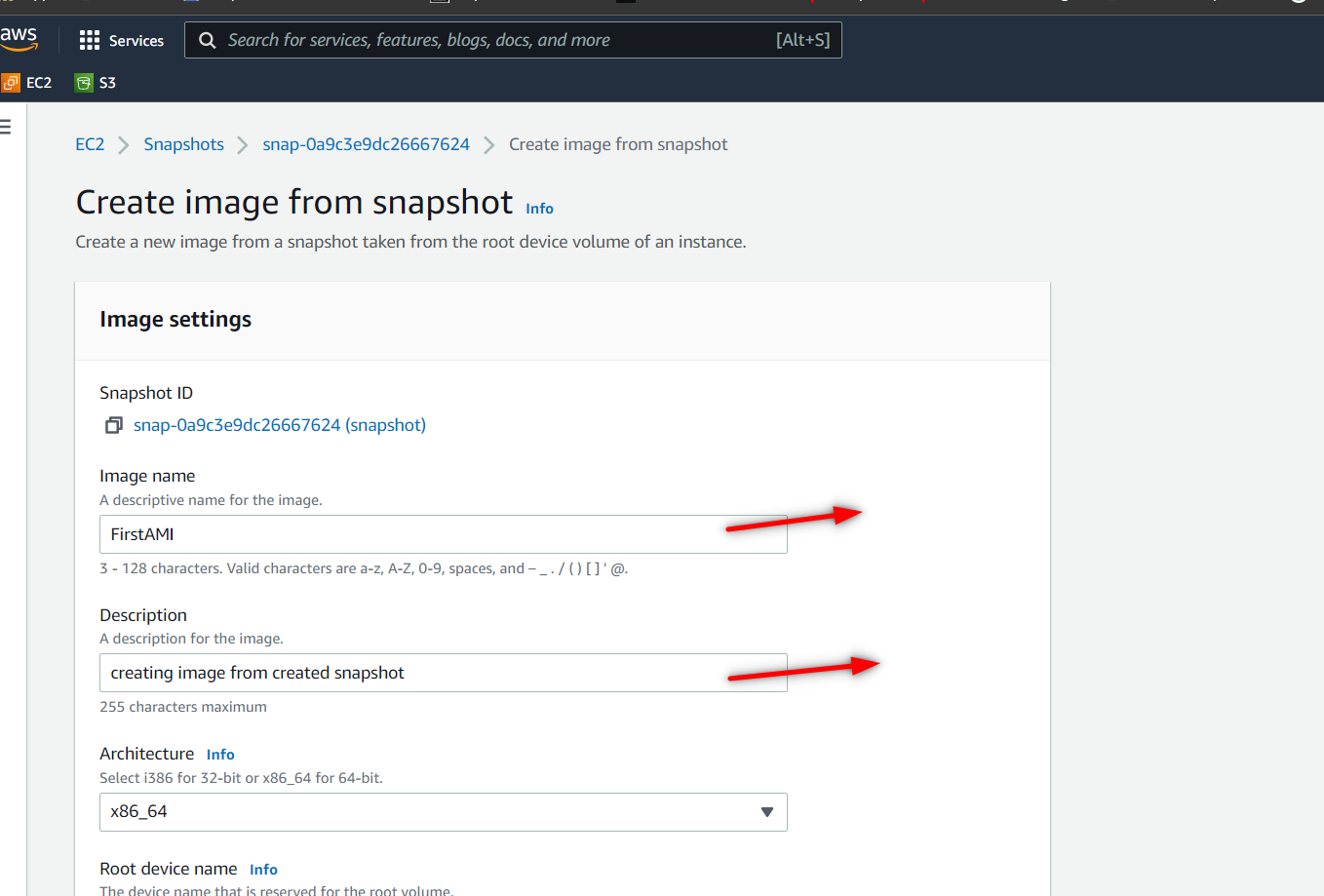
****

1. **Create AMI from the sanpshot created ?**

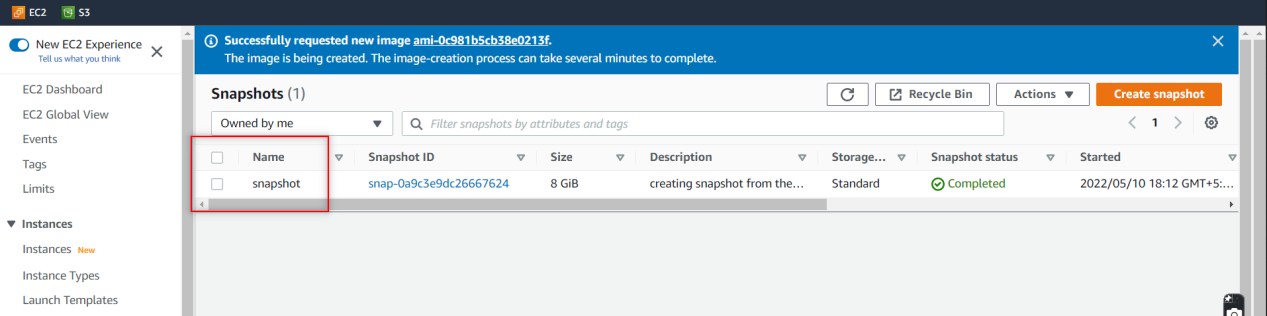
**Go to that snapshot and click on create image from snapshot.**

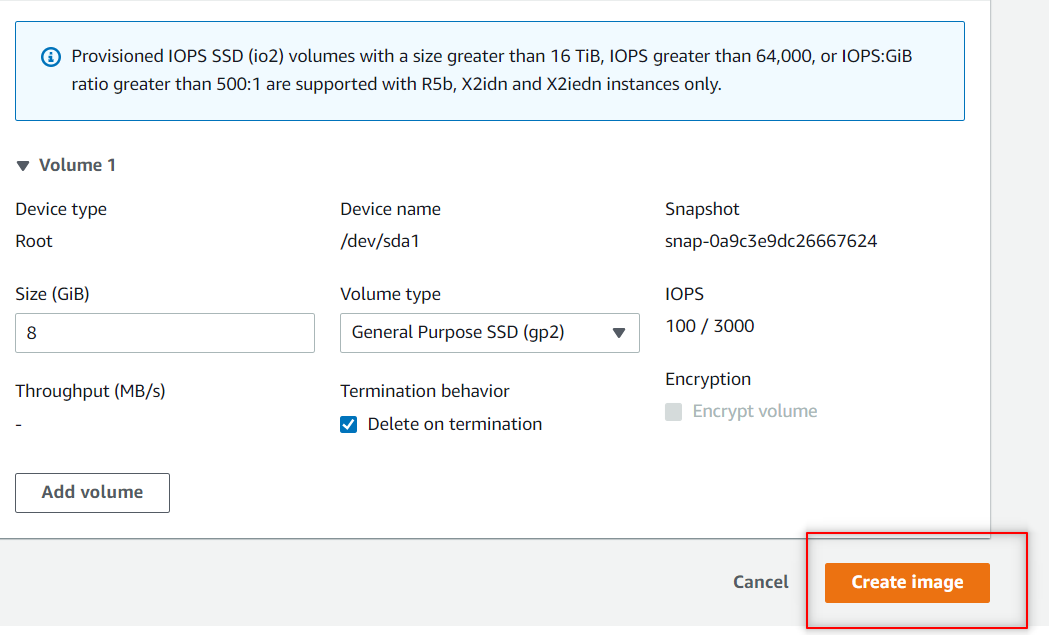
****

**Provide image name and description and click on create.**

****

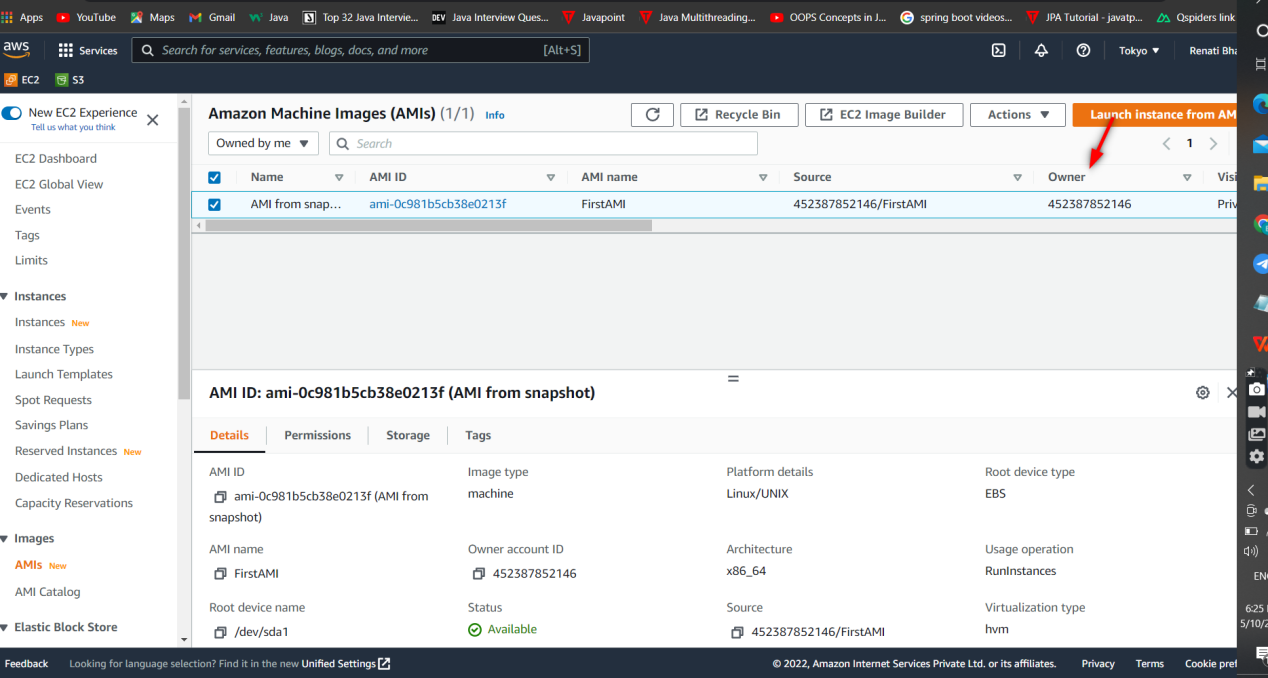
**Here u can see that the image got created from snapshot.**

****

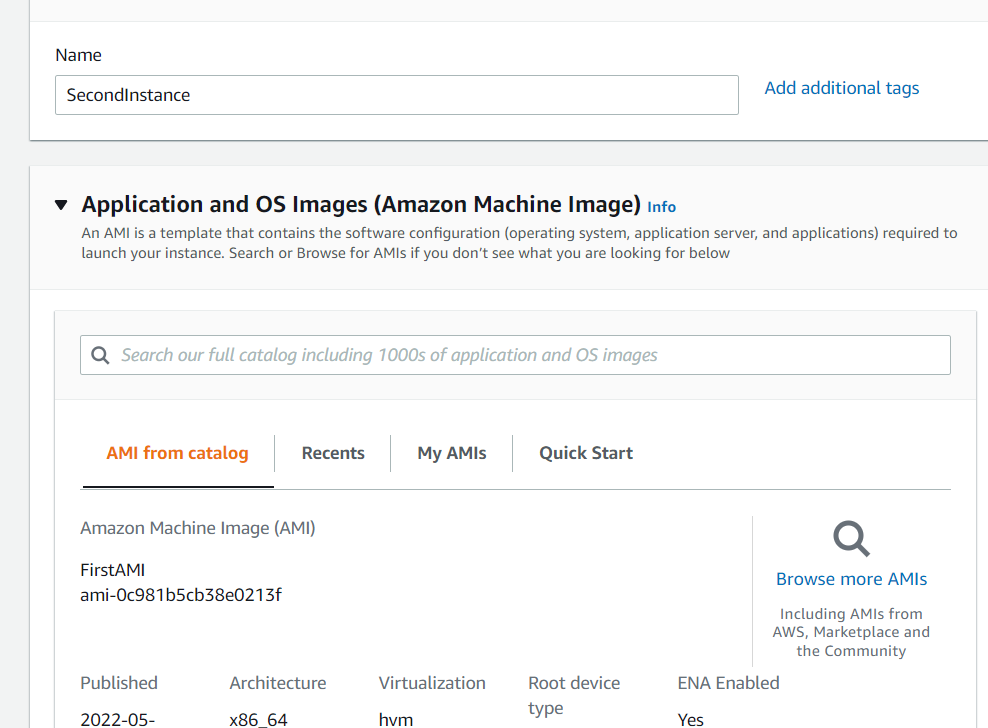
****

1. **Launch EC2 instance from the created AMI in different AZ**

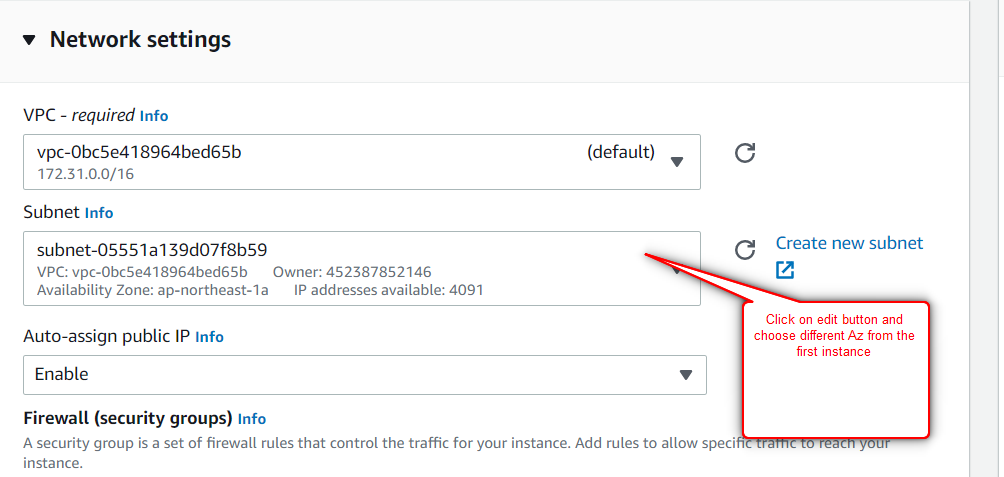
**Go to AMI and click on launch instance from AMI**

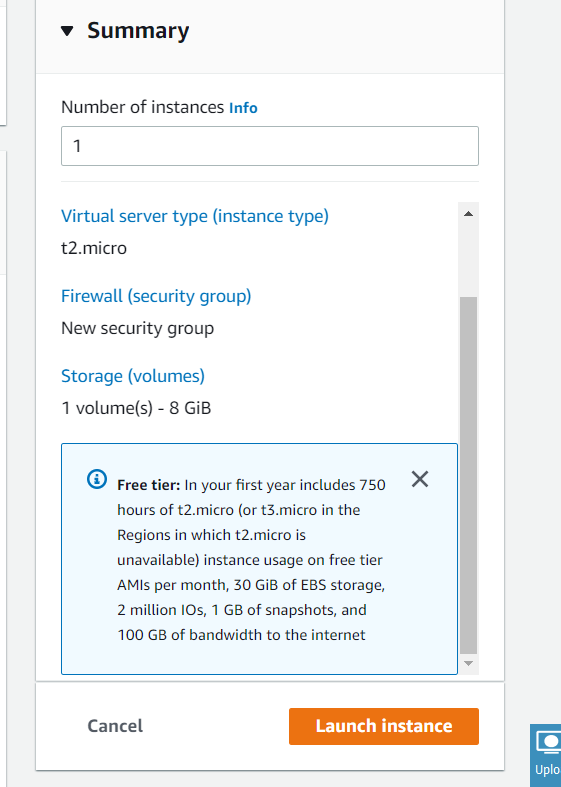
****

**Provide name and KP .**

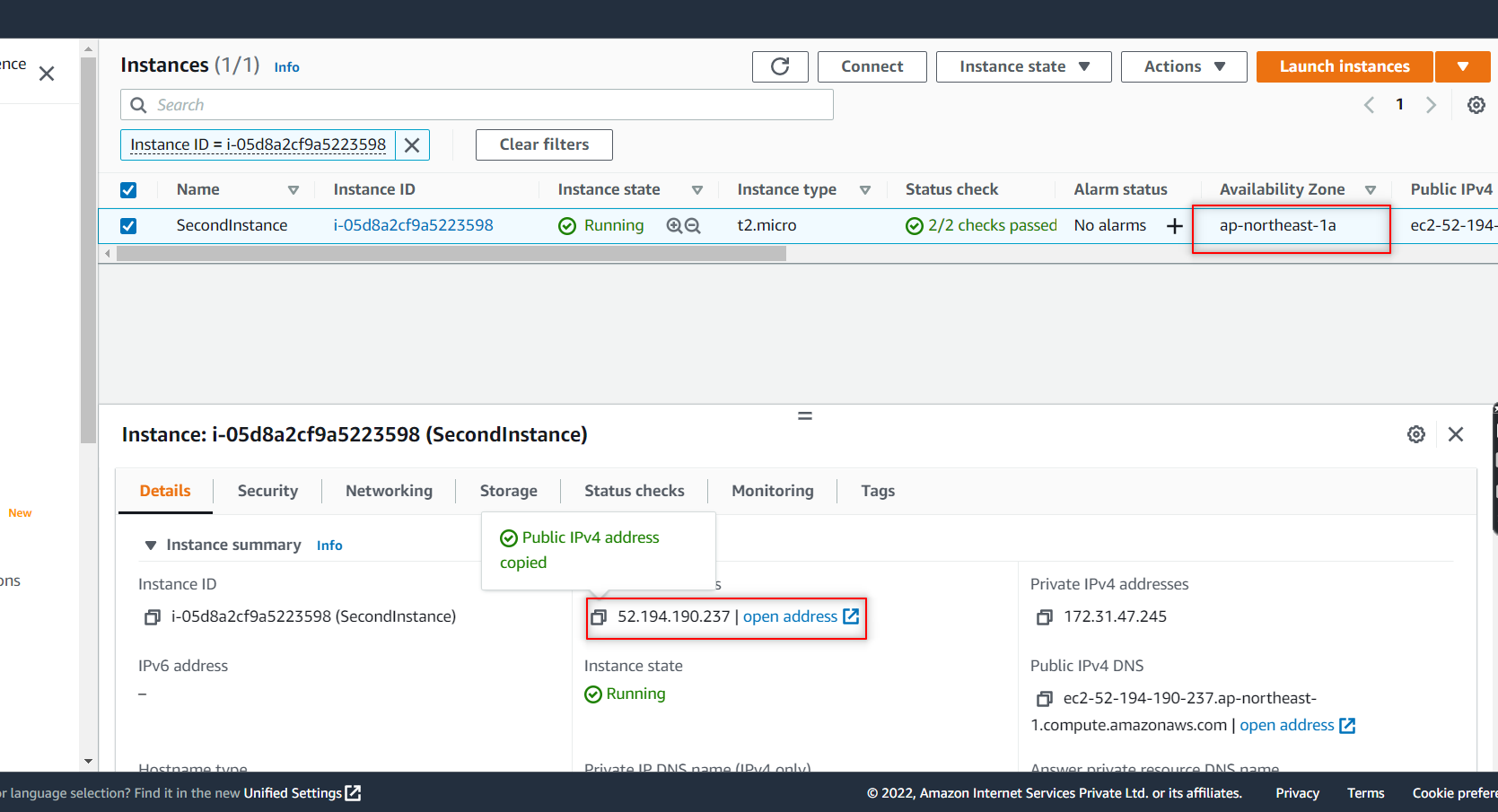
****

**Under network settings tab choose subnet that is different from the first instance that u created. and allow http traffic as well and click on launch instance.**

****

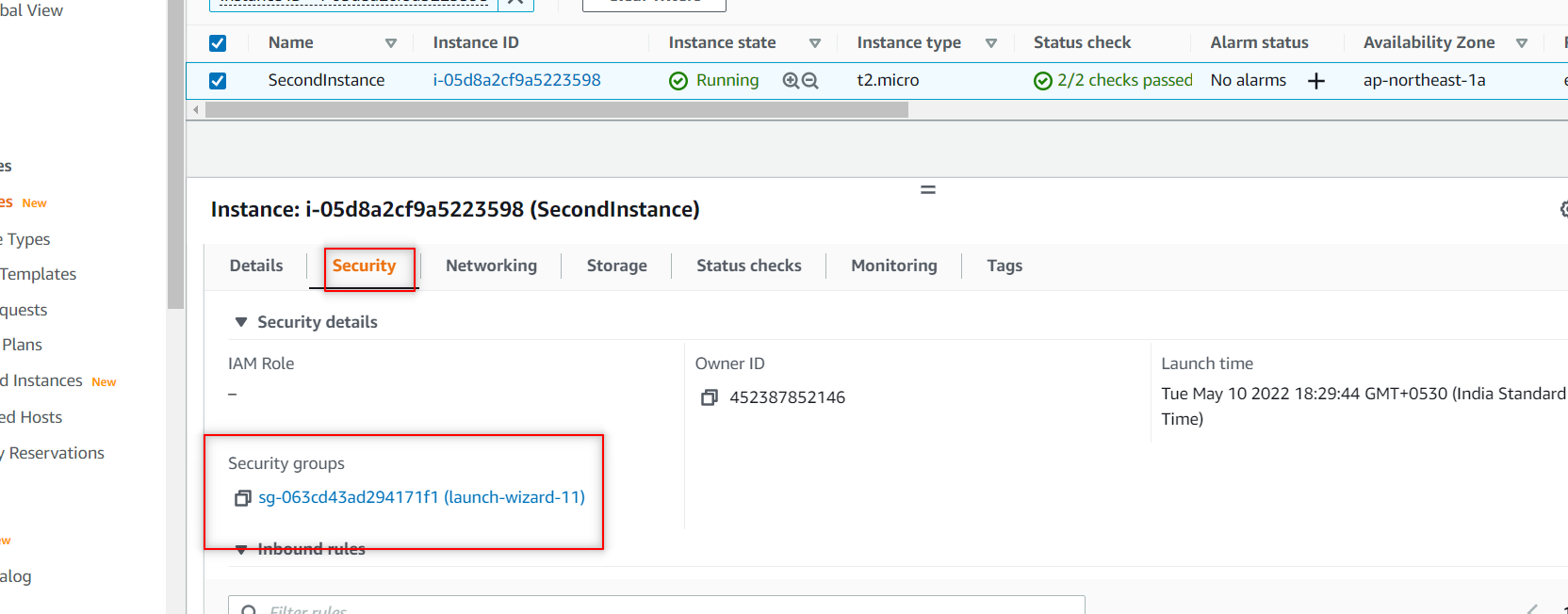
****

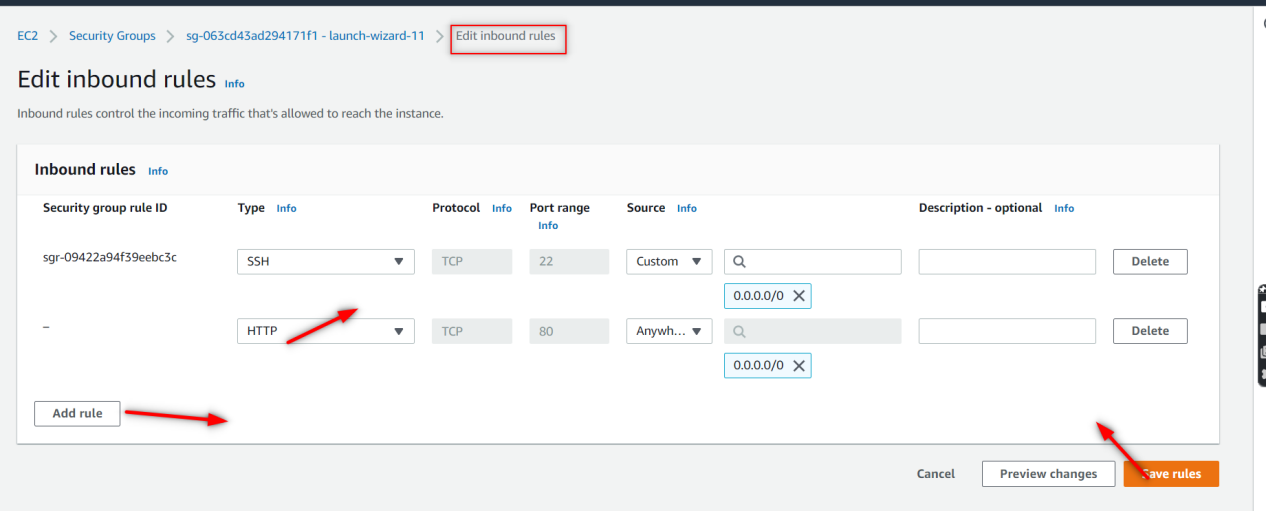
**The second instance also created and copy the Public Ip and paste it in google.**

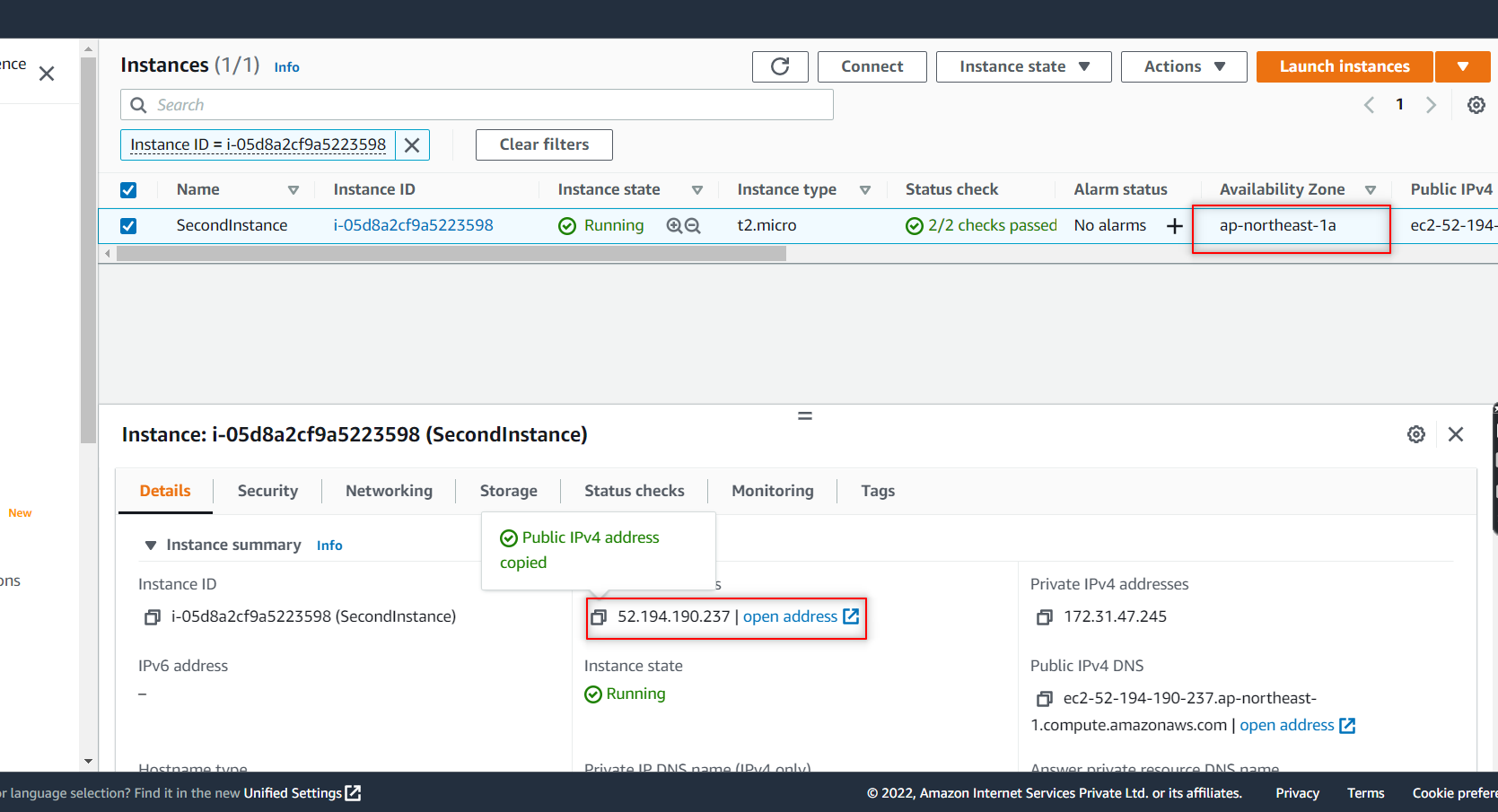
****

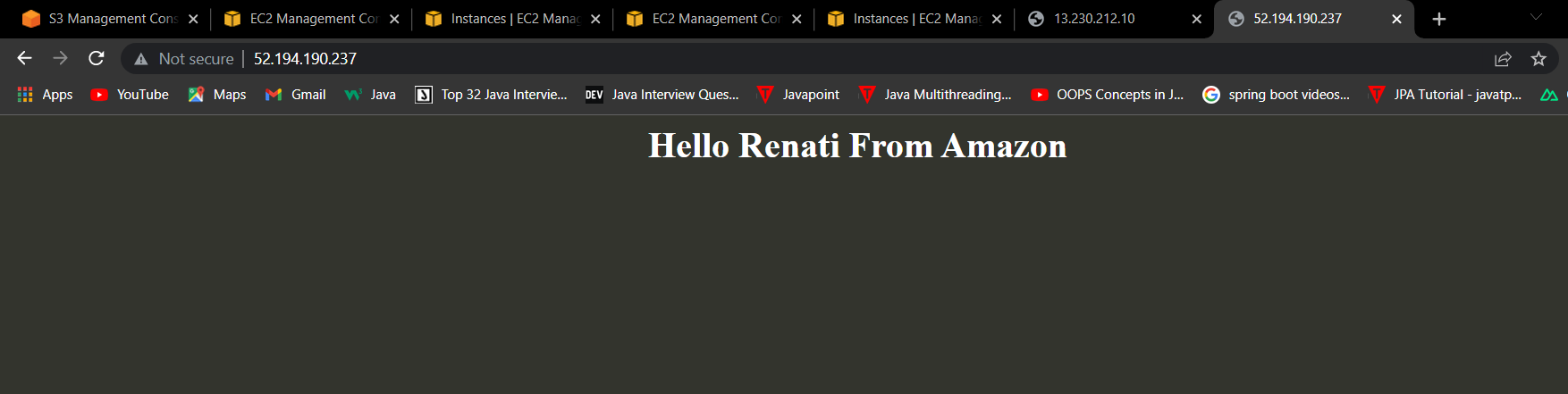
**The other way to provide the secutity is :**

**Go to security tab and clcik on security group link and click on edit option in Inbound rules and click on add rules and provide http , 80-port and 0.0.0.0/0 and save it**

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1. **What is Same region Replication(SRR)?**

Same-Region Replication (SRR) is **used to copy objects across Amazon S3 buckets in the same AWS Region**. SRR can help you do the following: Aggregate logs into a single bucket – If you store logs in multiple buckets or across multiple accounts, you can easily replicate logs into a single, in-Region bucket.

1. **What is Cross Region Replication(CRR)?**

* Cross Region Replication is a feature that replicates the data from one bucket to another bucket which could be in a different region.
* It provides asynchronous copying of objects across buckets. Suppose X is a source bucket and Y is a destination bucket. If X wants to copy its objects to Y bucket, then the objects are not copied immediately.

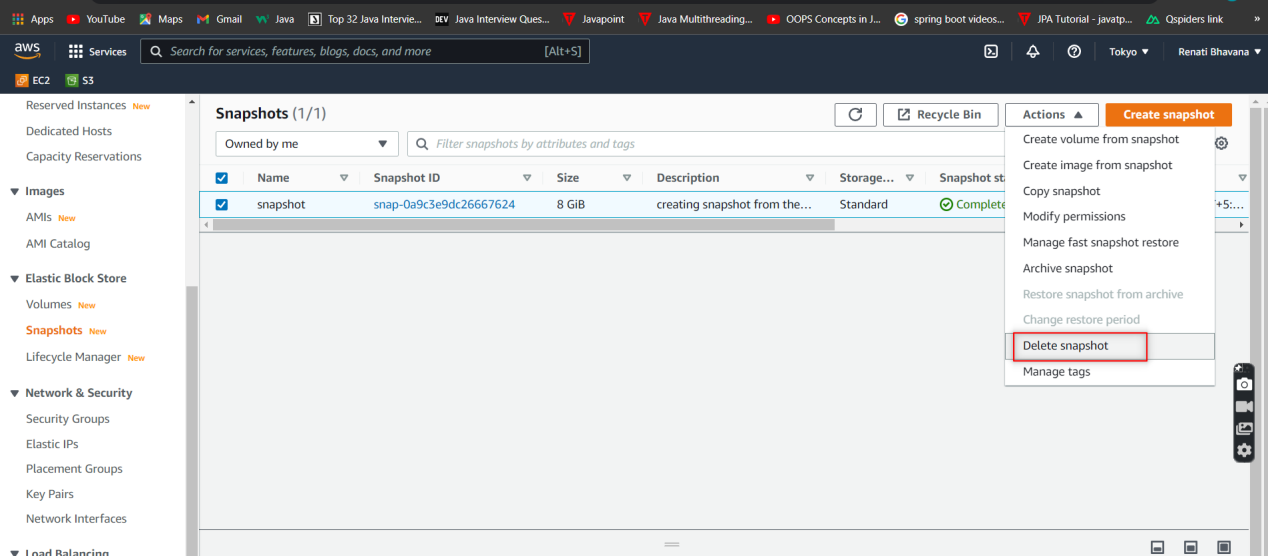
****Some points to be remembered for Cross Region Replication****

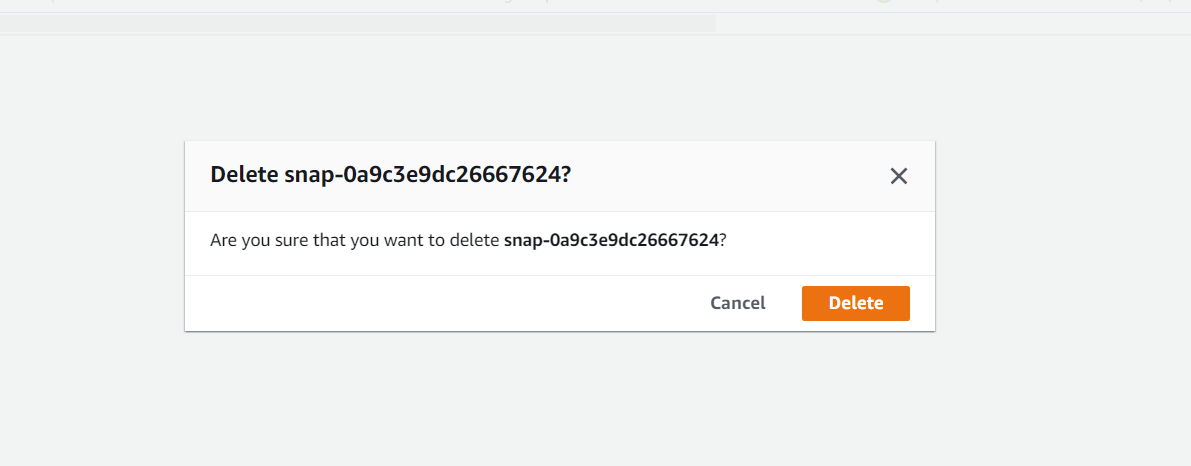
* ****Create two buckets:**** Create two buckets within AWS Management Console, where one bucket is a source bucket, and other is a destination bucket.
* ****Enable versioning:**** Cross Region Replication can be implemented only when the versioning of both the buckets is enabled.
* ****Amazon S3 encrypts the data in transit across AWS regions using SSL:**** It also provides security when data traverse across the different regions.
* ****Already uploaded objects will not be replicated:**** If any kind of data already exists in the bucket, then that data will not be replicated when you perform the cross region replication.

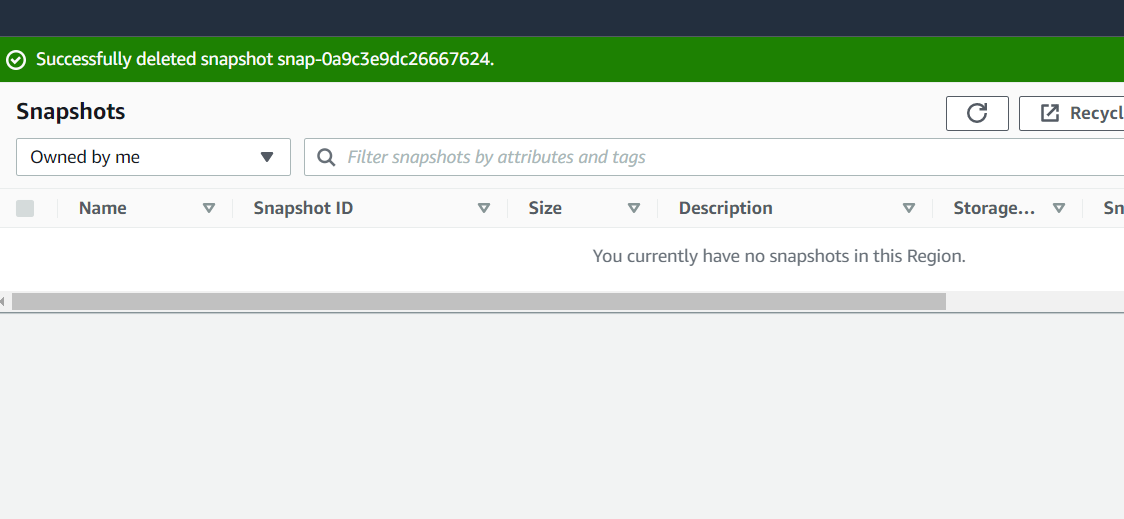
**9. How to delete a snapshot??**

**To delete a snapshot make sure first u deregister the image that u created.**

**Now click on the snapshot and go to actions button and choose delete snapshot to delete.**

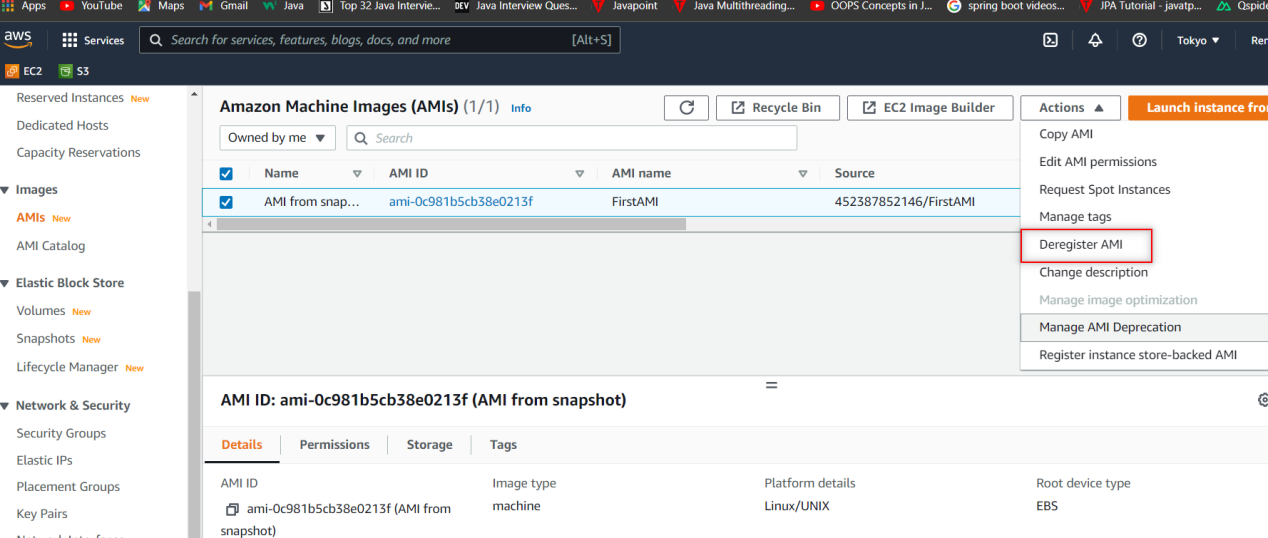
****

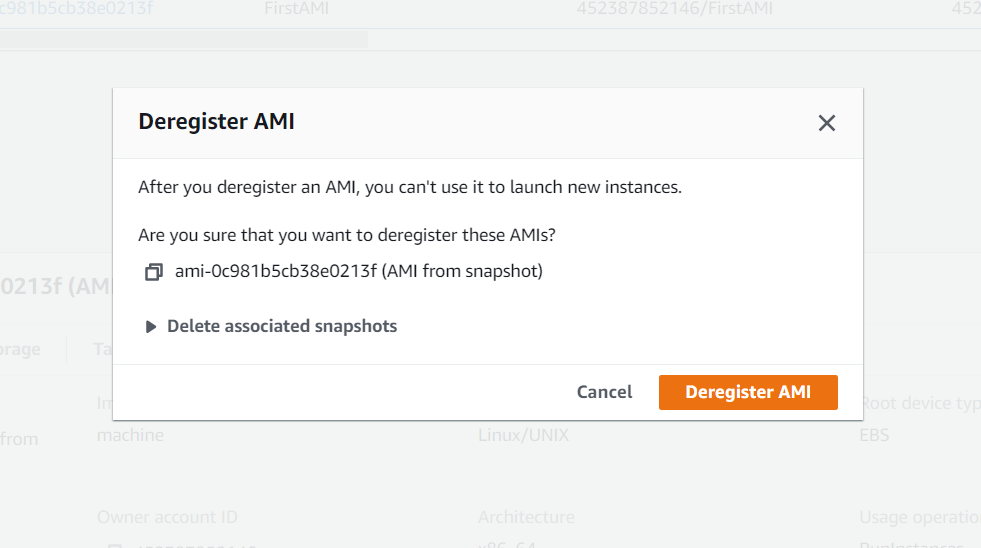
****

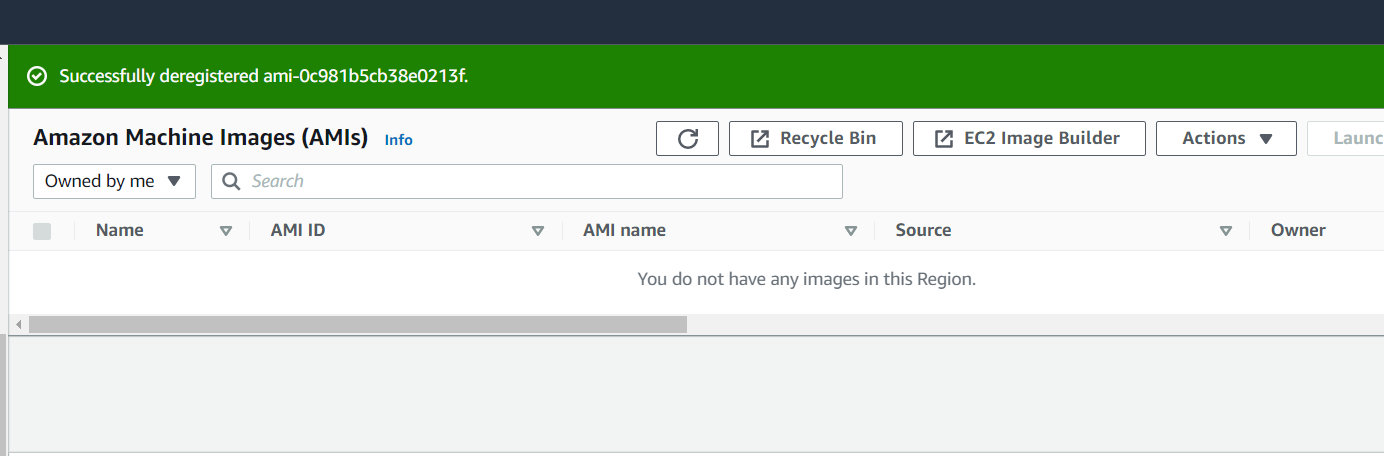
****

1. **HOw to deregister your AMI?**

**Click on the created Image and go to Actions and click on Deregister AMI . The AMI get deleted.**

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