IAM Policies

Problem Statement:

You work for XYZ Corporation. To maintain the security of the AWS account and the resources you have been asked to implement a solution that can help easily recognize and monitor the different users.

Tasks To Be Performed:

1. Create policy number 1 which lets the users to:
    a. Access S3 completely
    b. Only create EC2 instances
    c. Full access to RDS
2. Create a policy number 2 which allows the users to:
    a. Access CloudWatch and billing completely
    b. Can only list EC2 and S3 resources.
3. Attach policy number 1 to the Dev Team from task 1
4. Attach policy number 2 to Ops Team form Task 1.

Dev1 user

https://219449977354.signin.aws.amazon.com/console

Password for dev1- Dev1awsgurus

Dev2 user

https://219449977354.signin.aws.amazon.com/console

password for dev2- Dev2awsgurus

Test1 user

https://219449977354.signin.aws.amazon.com/console

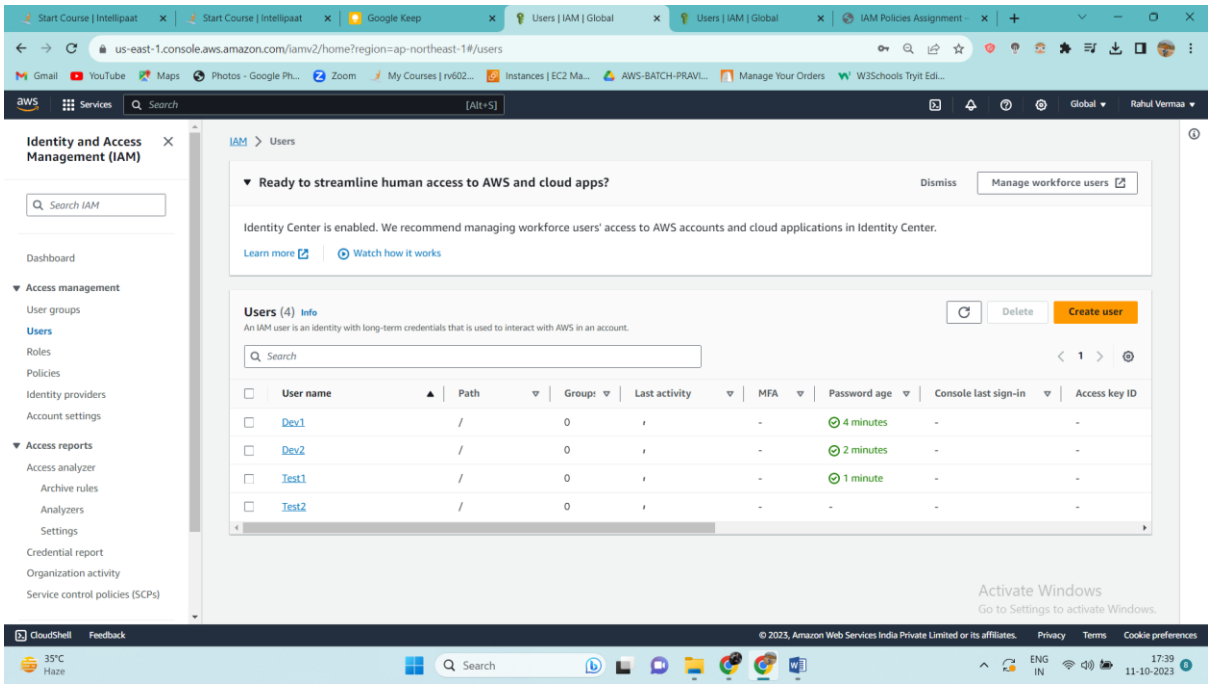
password for test1- Test1awsgurus

Test2 user

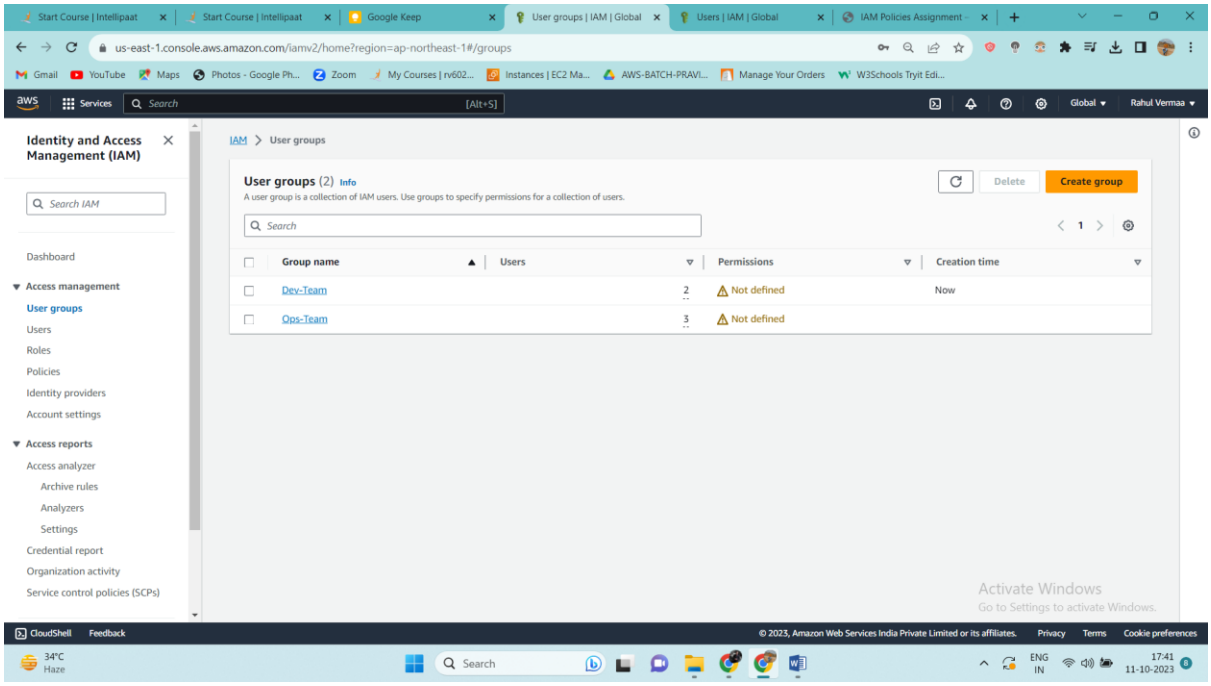
https://219449977354.signin.aws.amazon.com/console

password for test2- Test2awsgurus

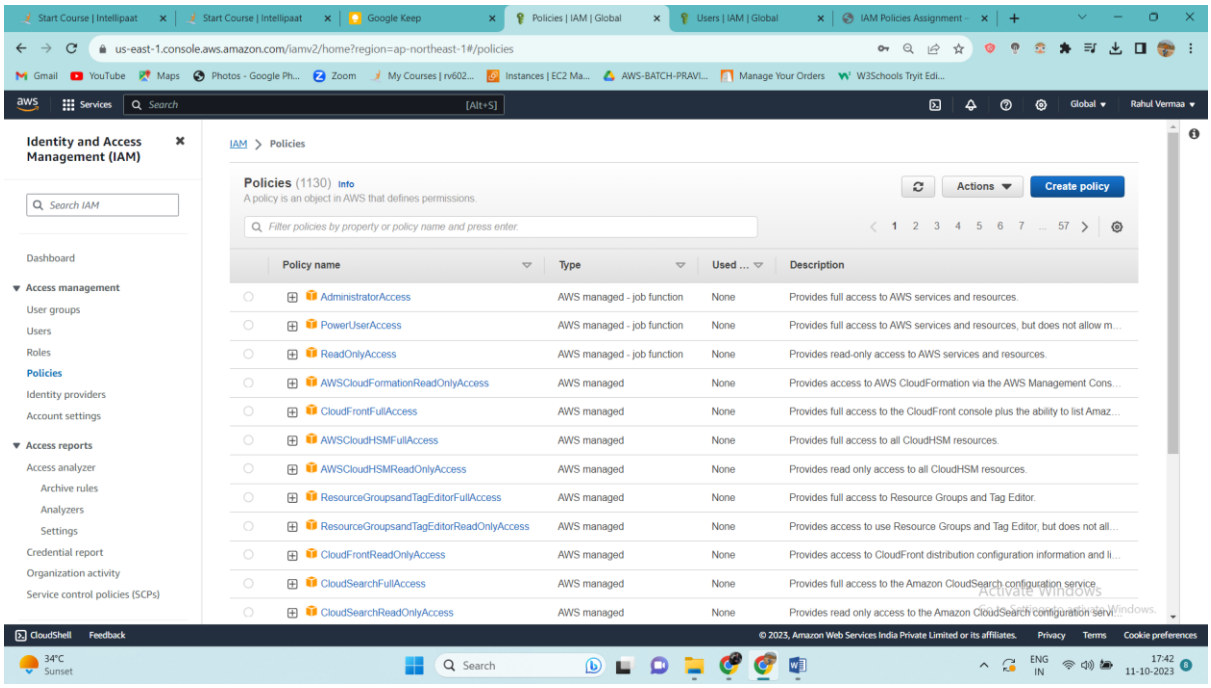
We have created these users in our IAM users PDF



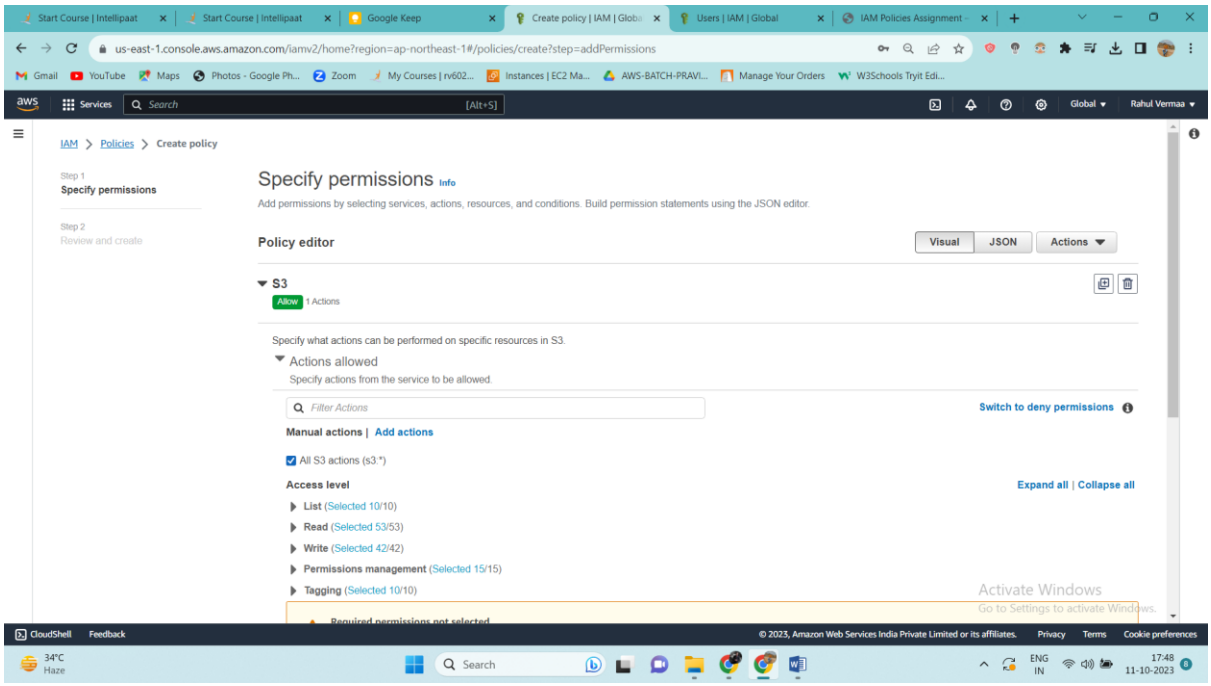
And in our groups we havn't defined any ploicies aur permissions



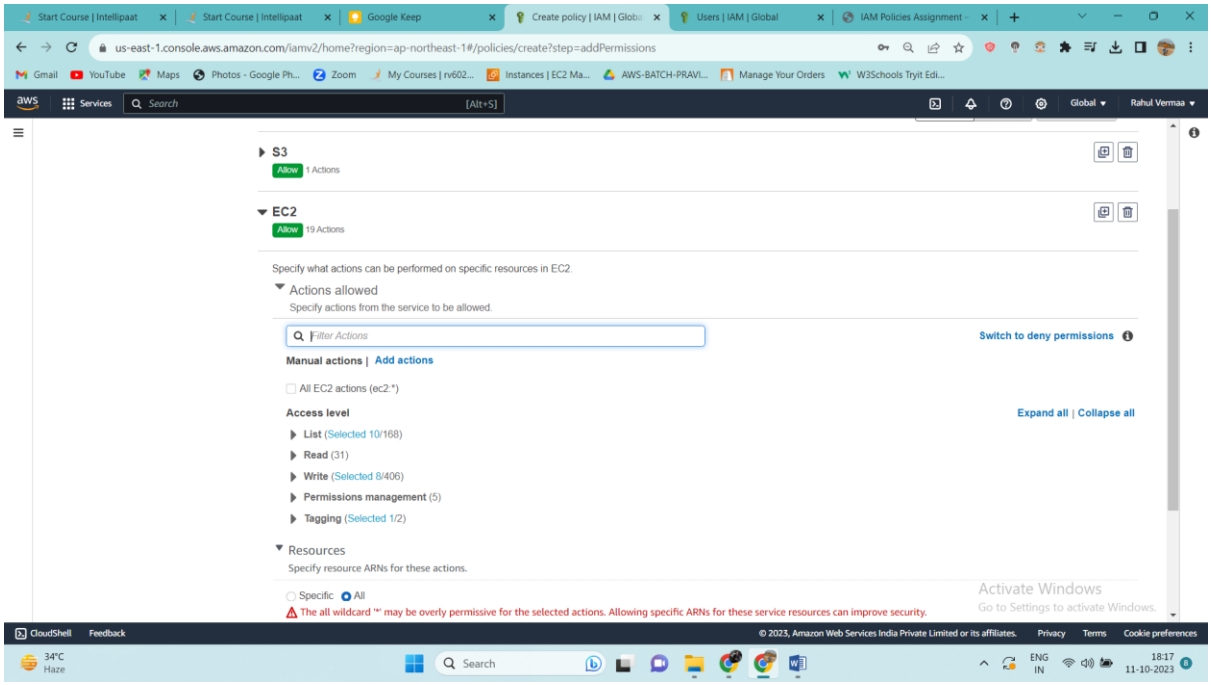
Now let’s create policies



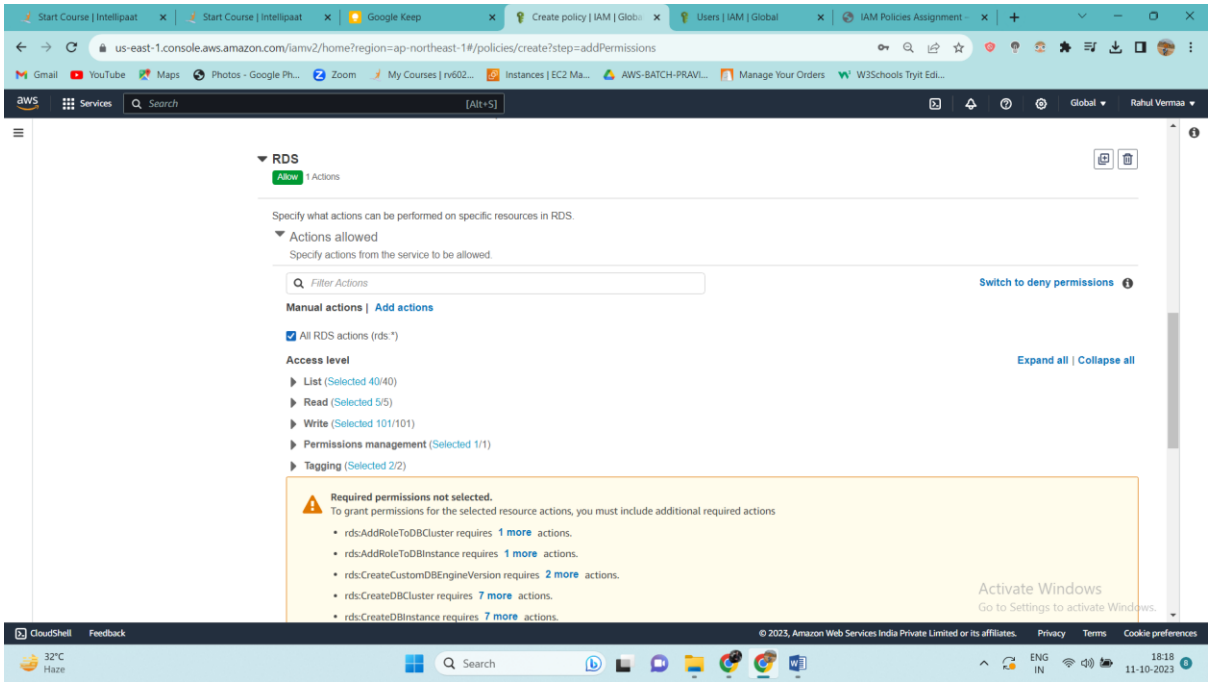
We have to allow all resources for s3 (full access)



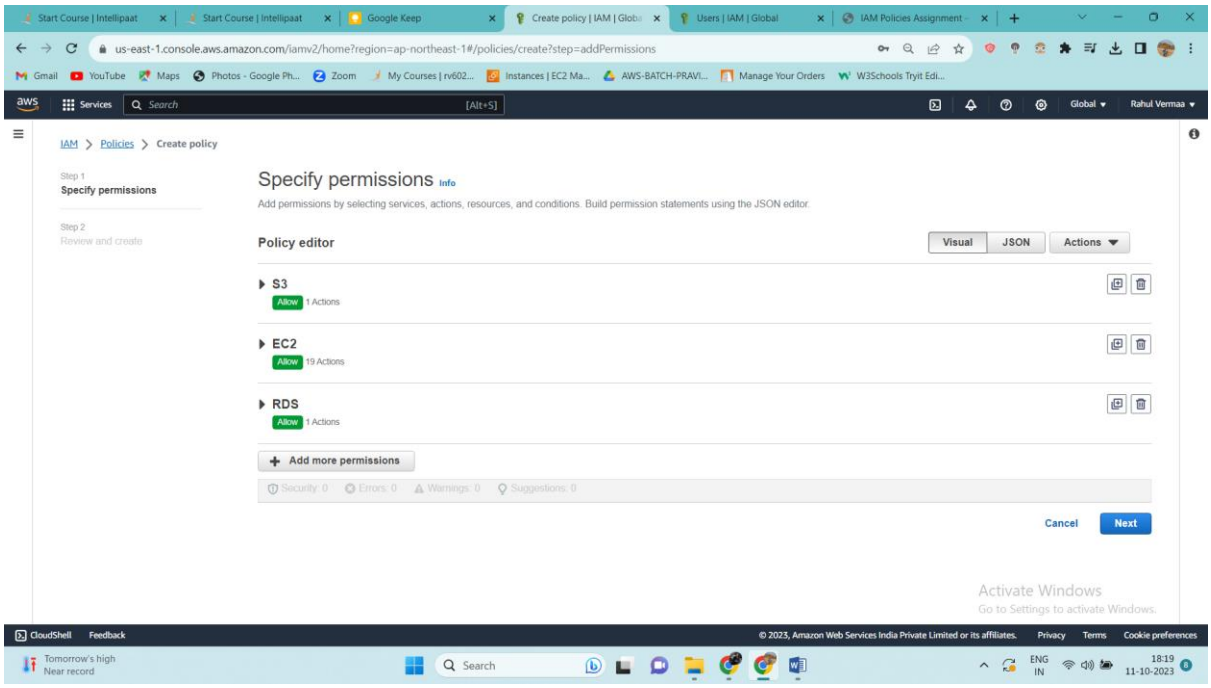
Now we have defined for ec2(should be able to create instance only)



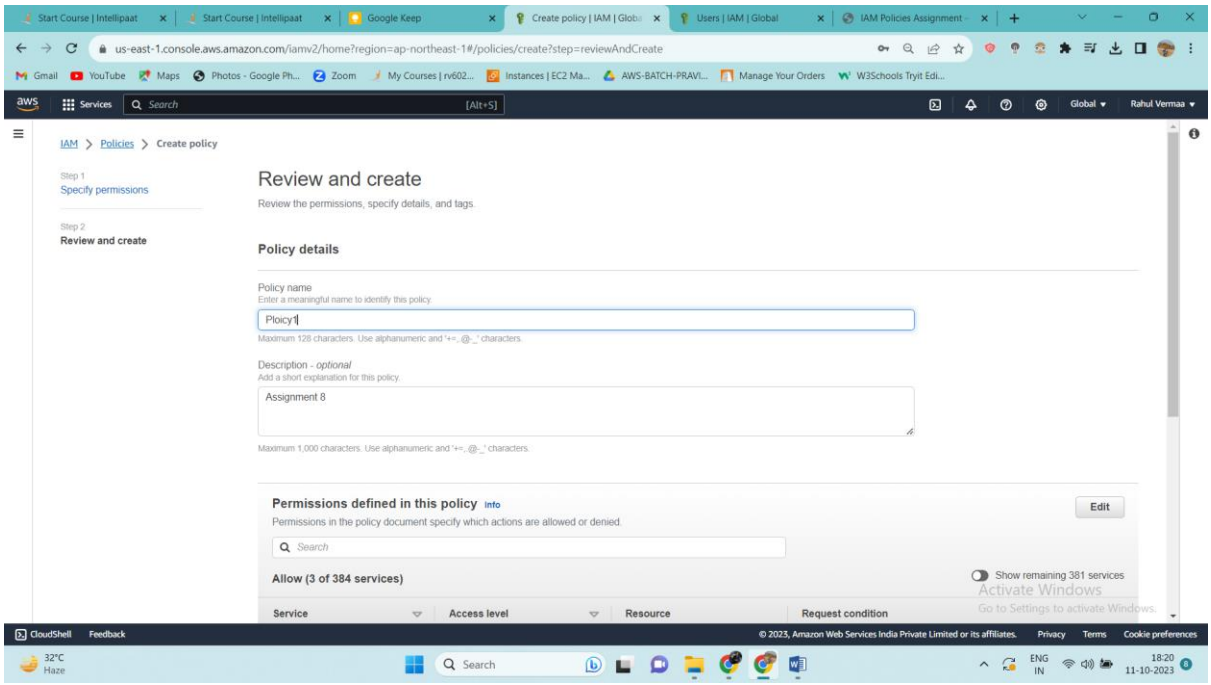
Now we will allow RDS full access



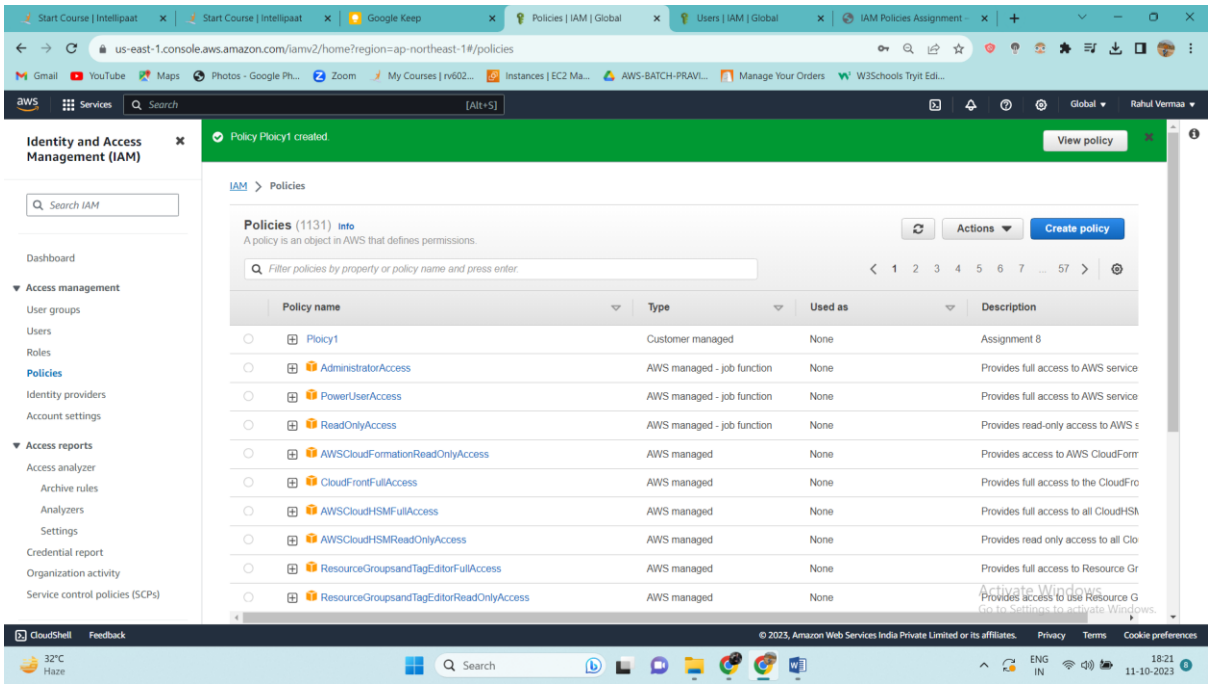
We have defined permissions for our policy



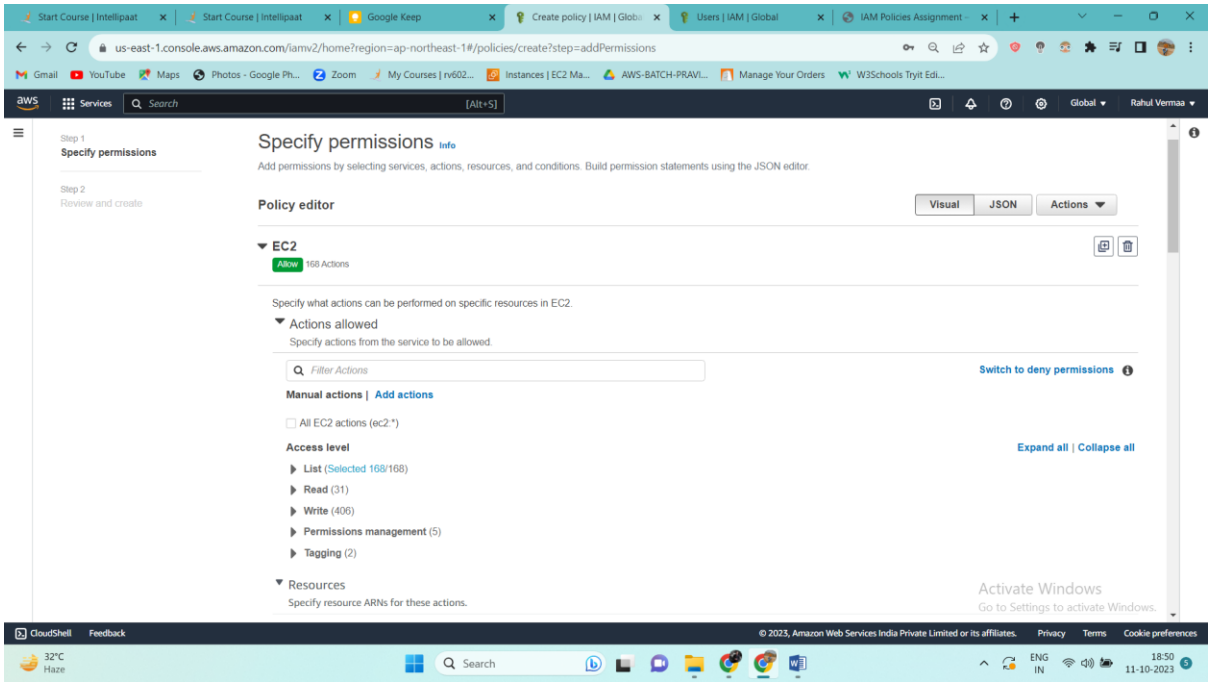
Define policy name



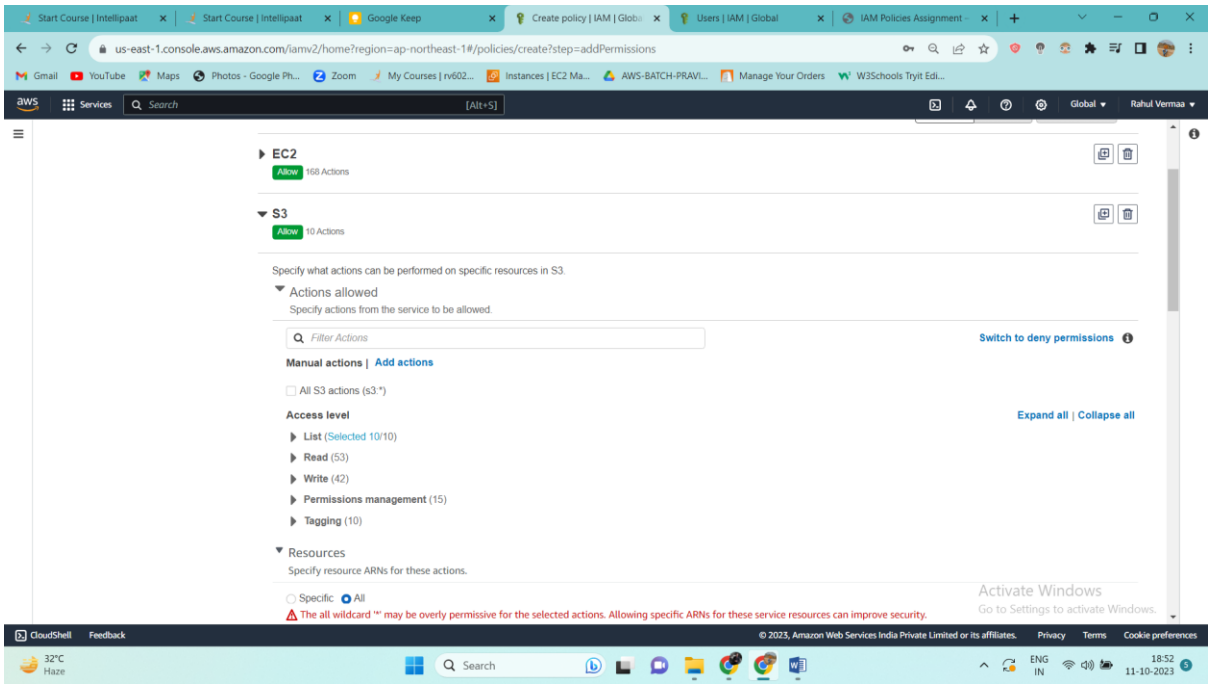
Our policy1 is created successfully



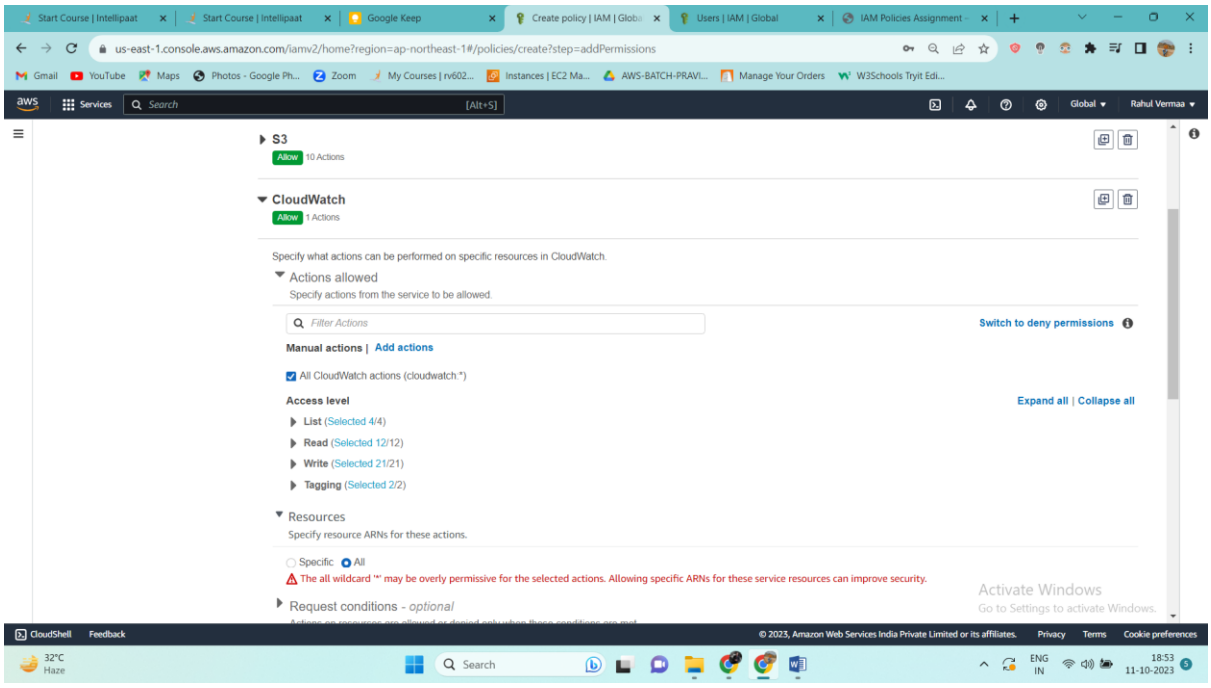
Now we will create ploicy2. In that we have to give permission for ec2 and s3 be able to list resources only



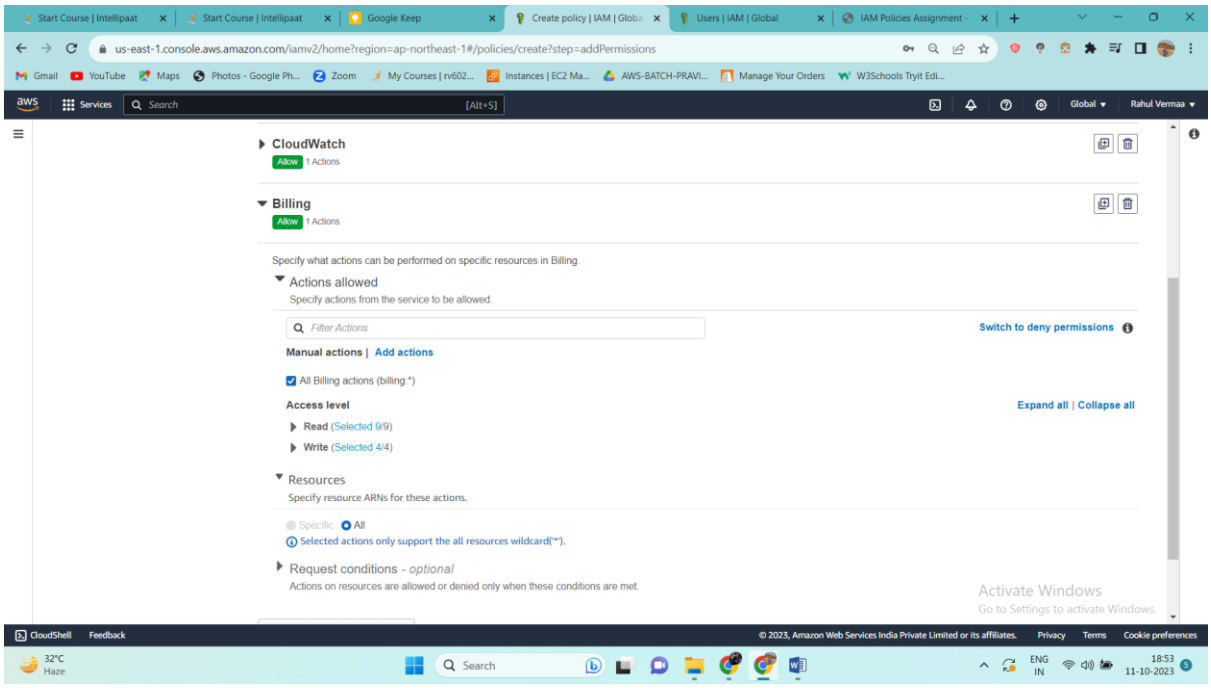
This for s3 (list only)



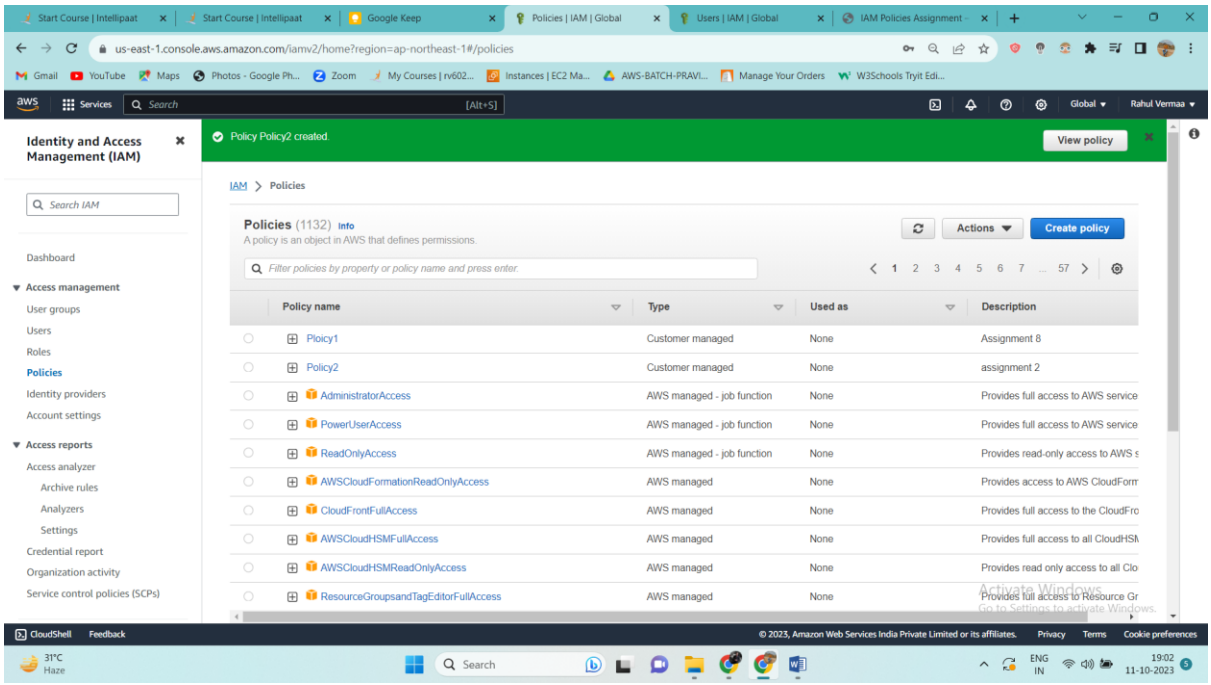
Now for cloud watch all resources



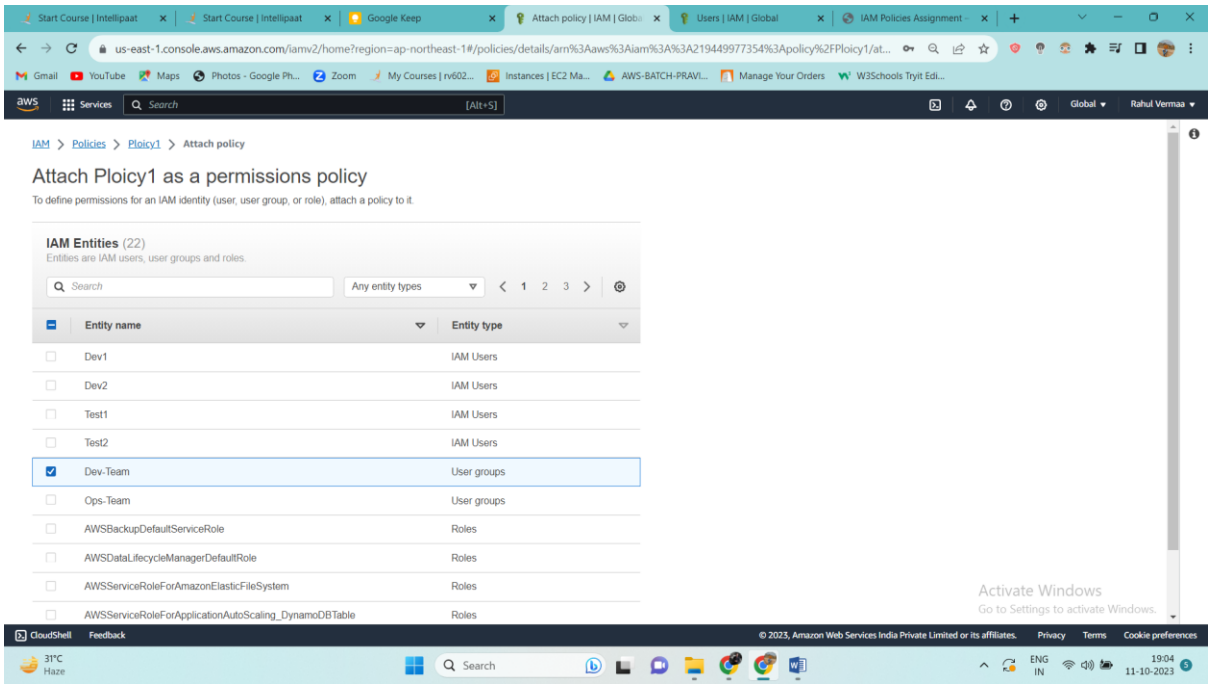
And for billing also all resources



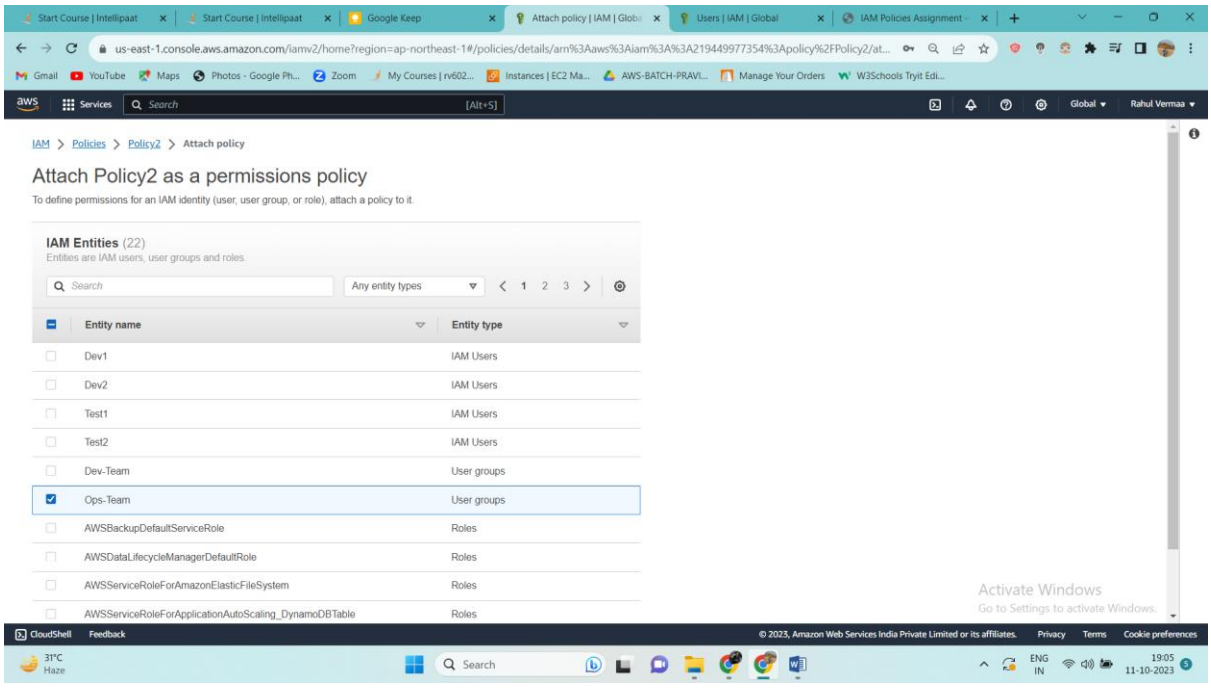
And our ploicy2 is also created



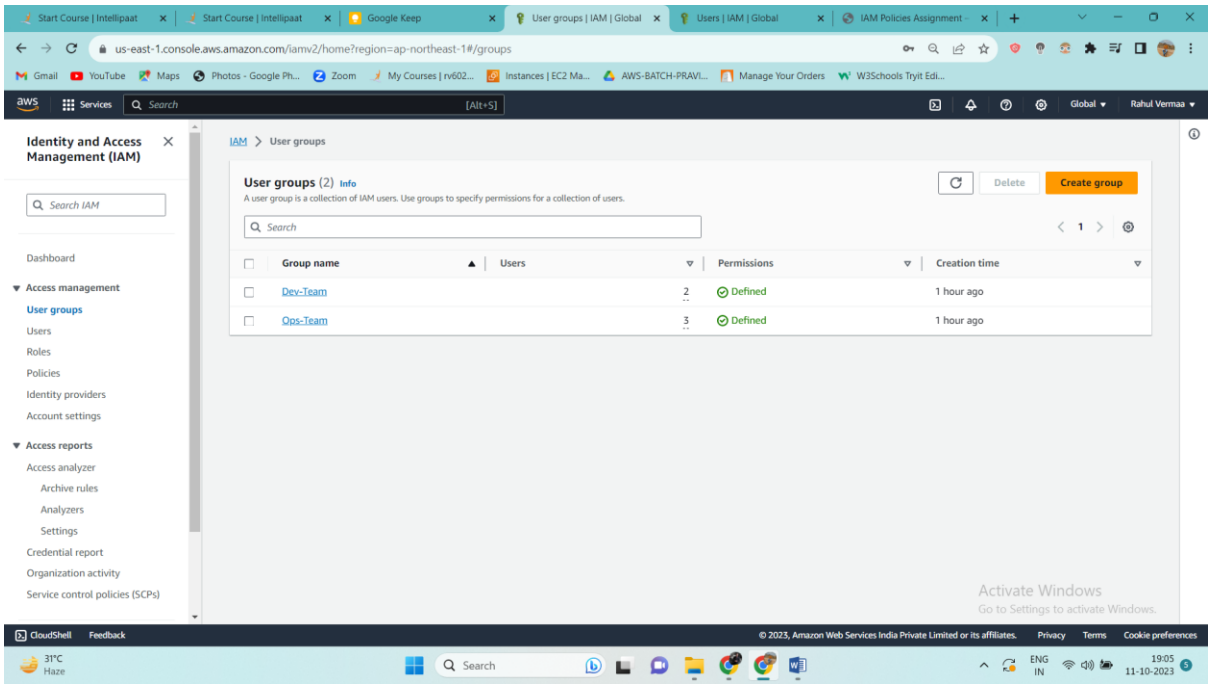
Now let’s add policy1 to Dev-Team



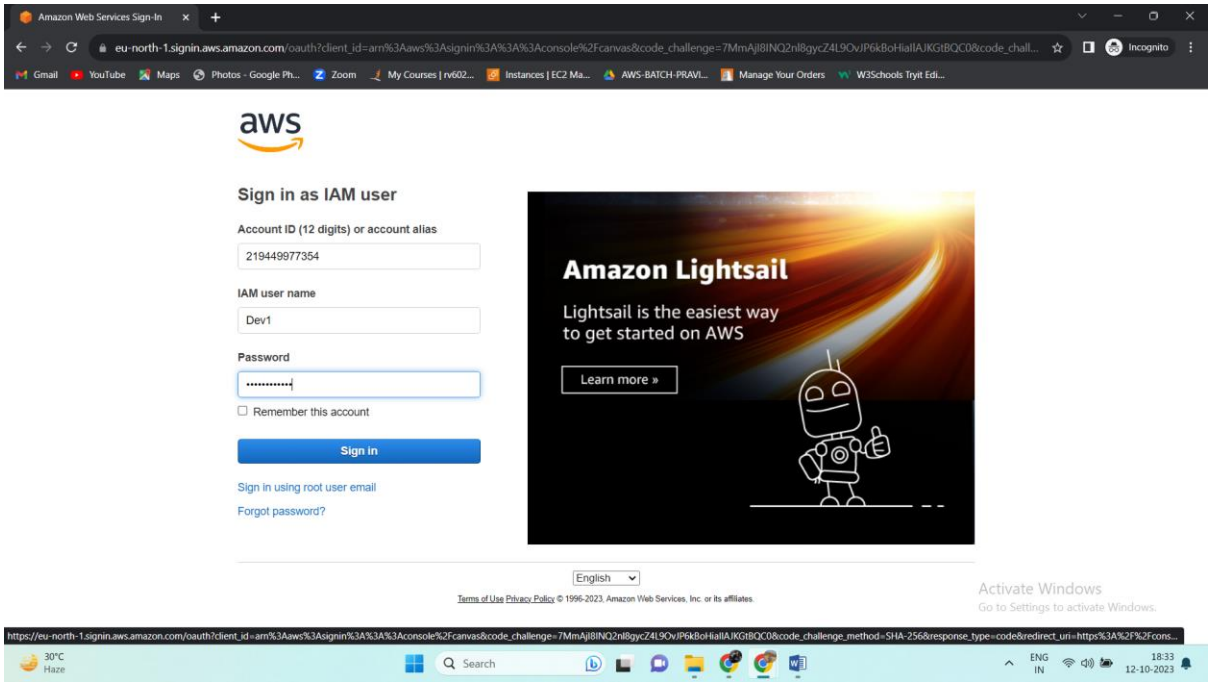
And now let’s attach policy2 to Ops-Team



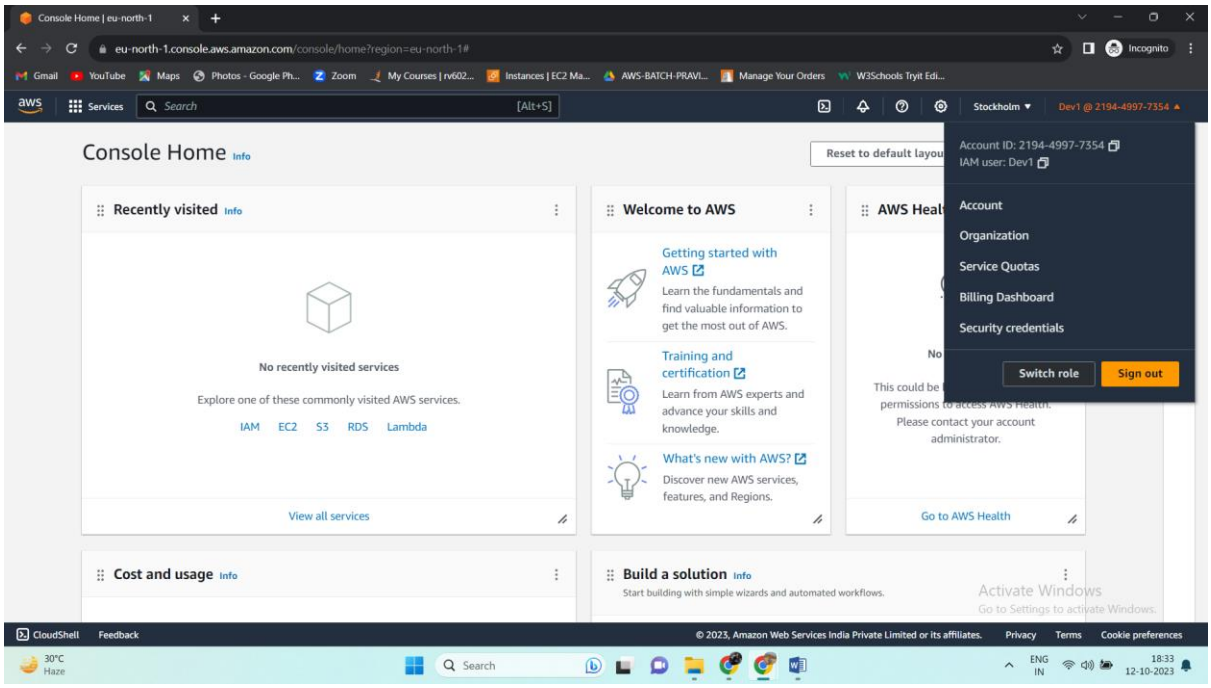
And now in both groups policies are defined



Now let’s test our policies are working or not so we will login to Dev1 from Dev-teams and Ops-Team



And we have logged in to Dev1 user



Now Dev1 user should be able to do following things

Policy1 (Dev-team) :

a. Access S3 completely

b. Only create EC2 instances

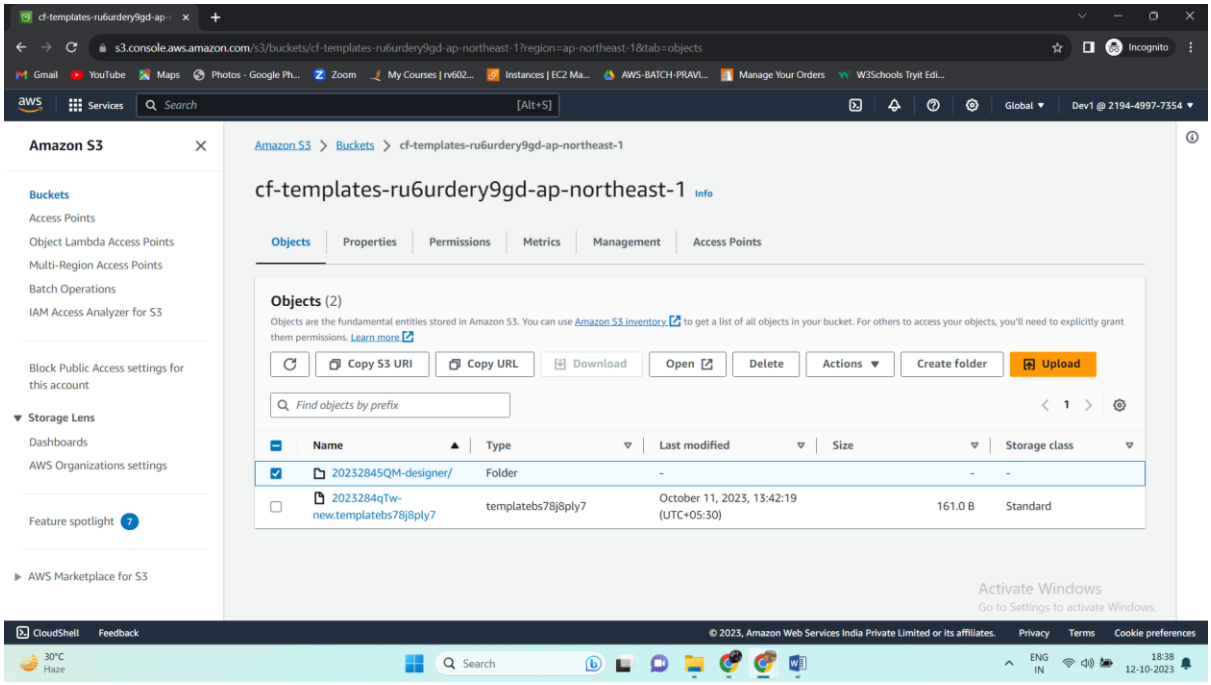
c. Full access to RDS

Policy2 (Ops-team):

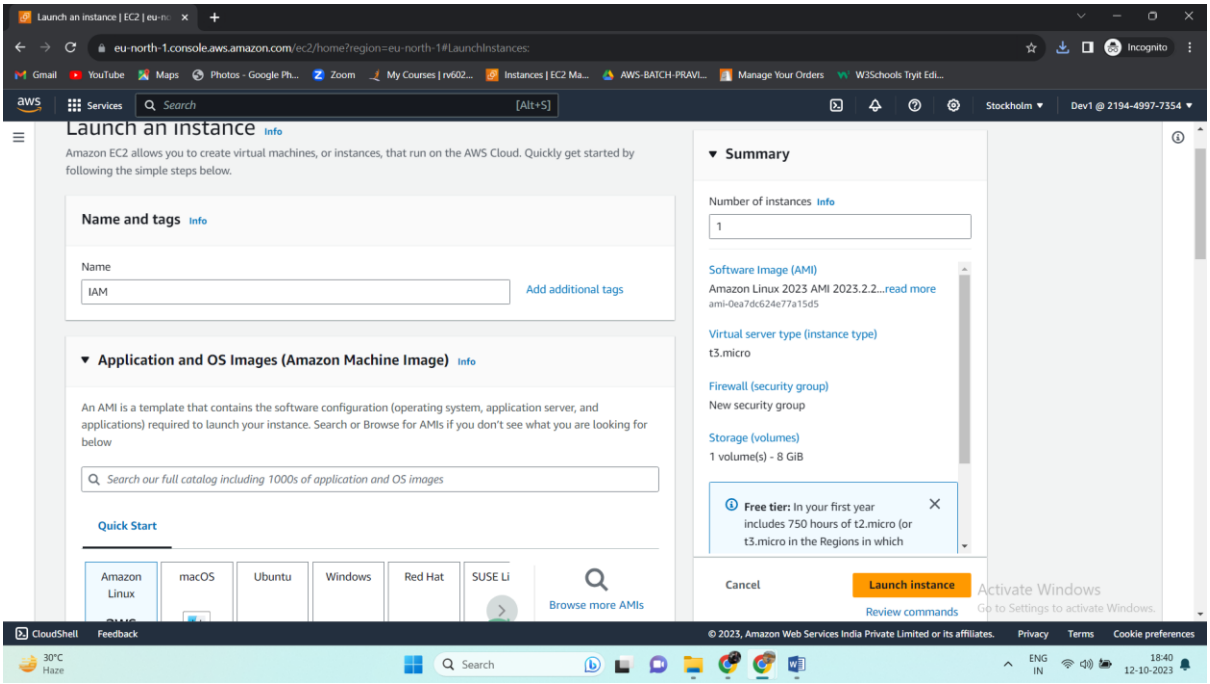
a. Access CloudWatch and billing completely

b. Can only list EC2 and s3 resources.

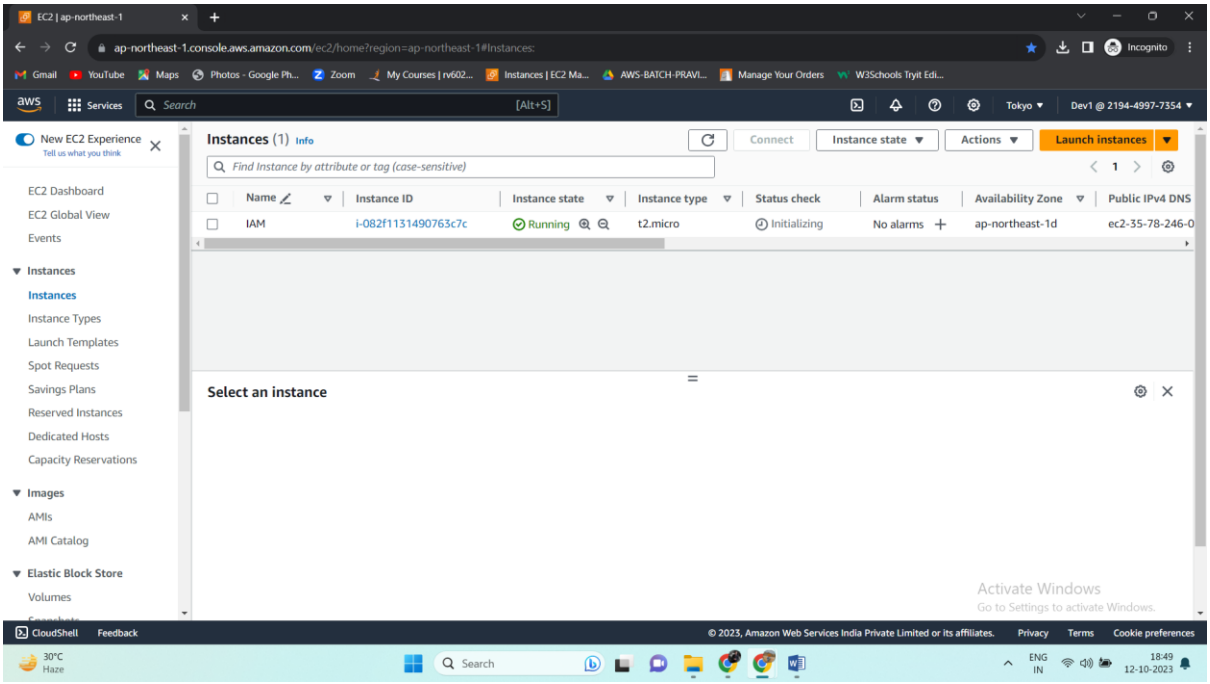
A) S3 full access



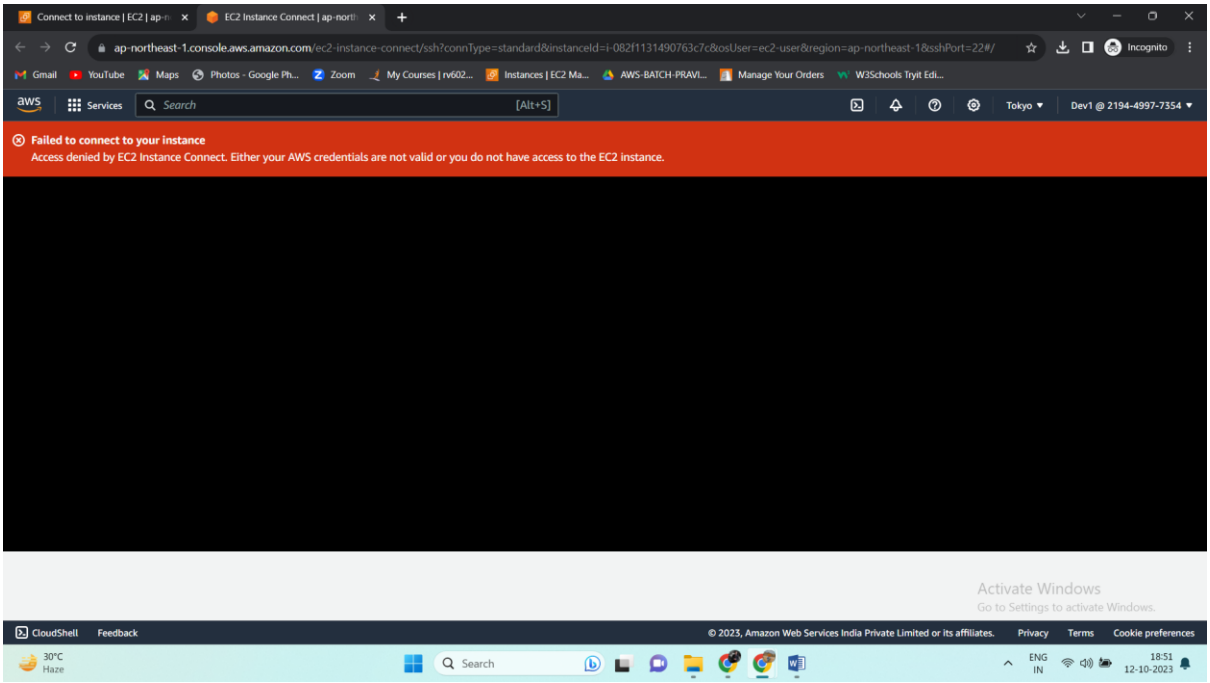
B) Only create ec2 instance



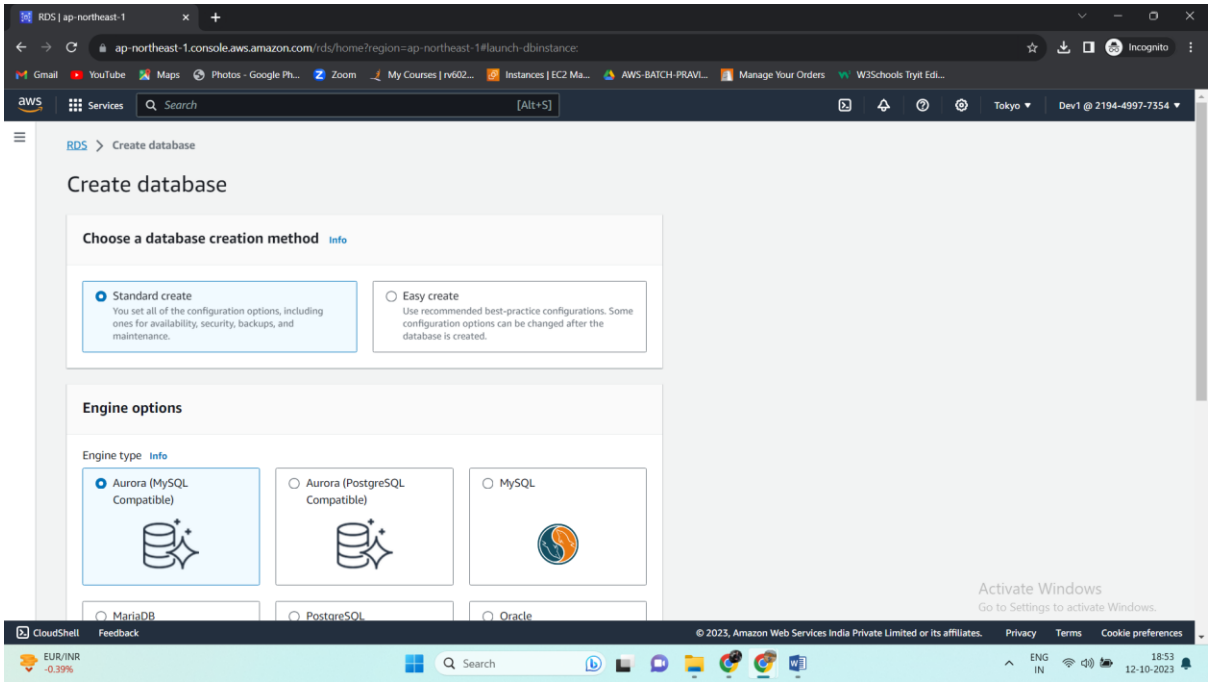
Instance is created



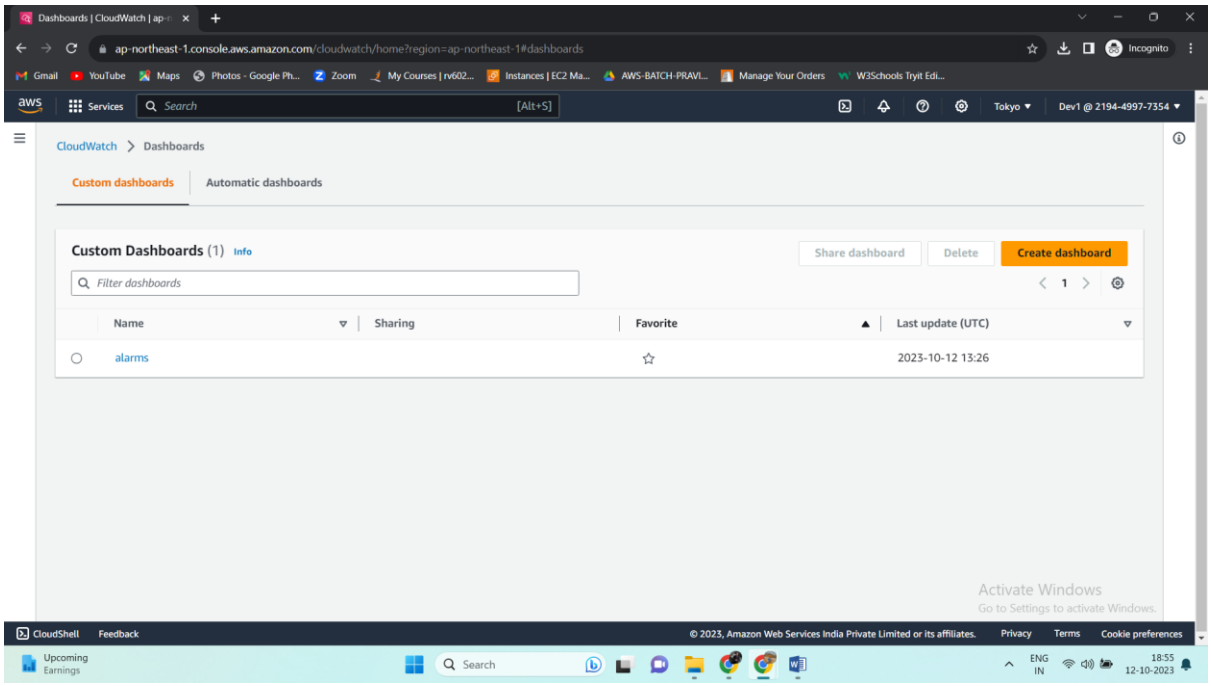
Not able to connect



C) Full access to RDS



Now cloud watch



So this is how IAM policies works. **DONE!**