What is IAM ?

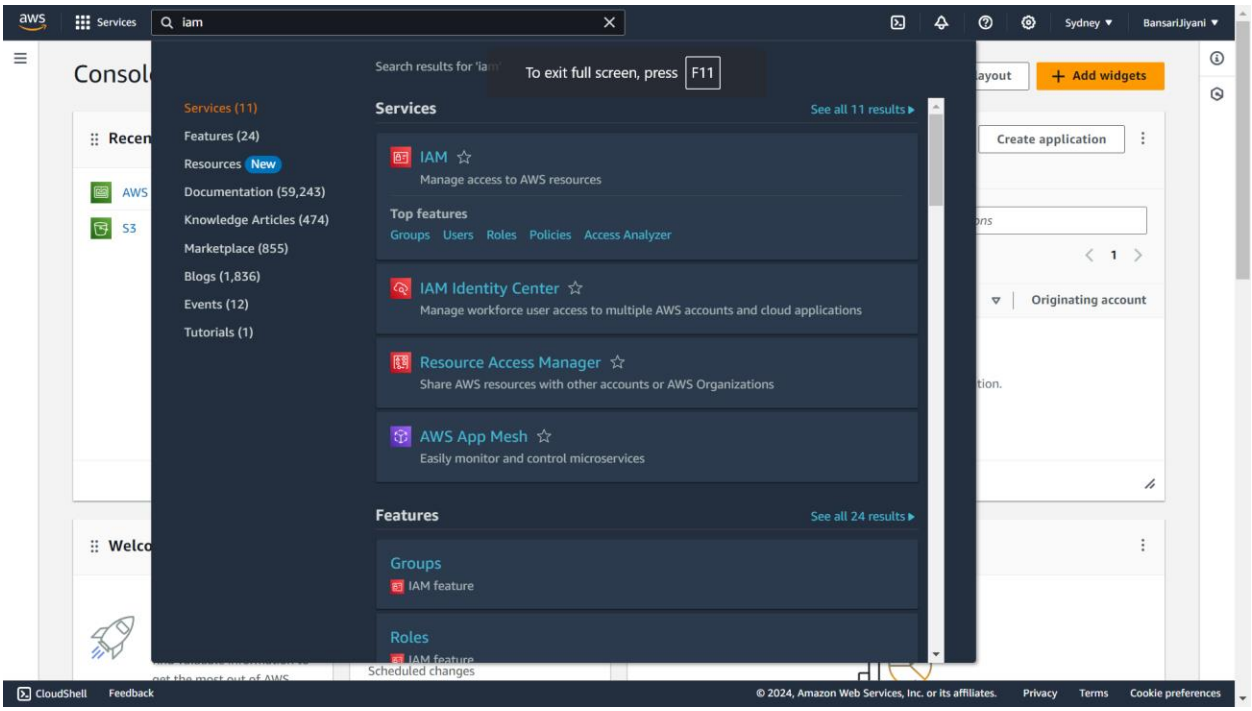
Identity and Access Management

AWS IAM (Identity and Access Management) is a service that helps you securely control access to AWS resources.

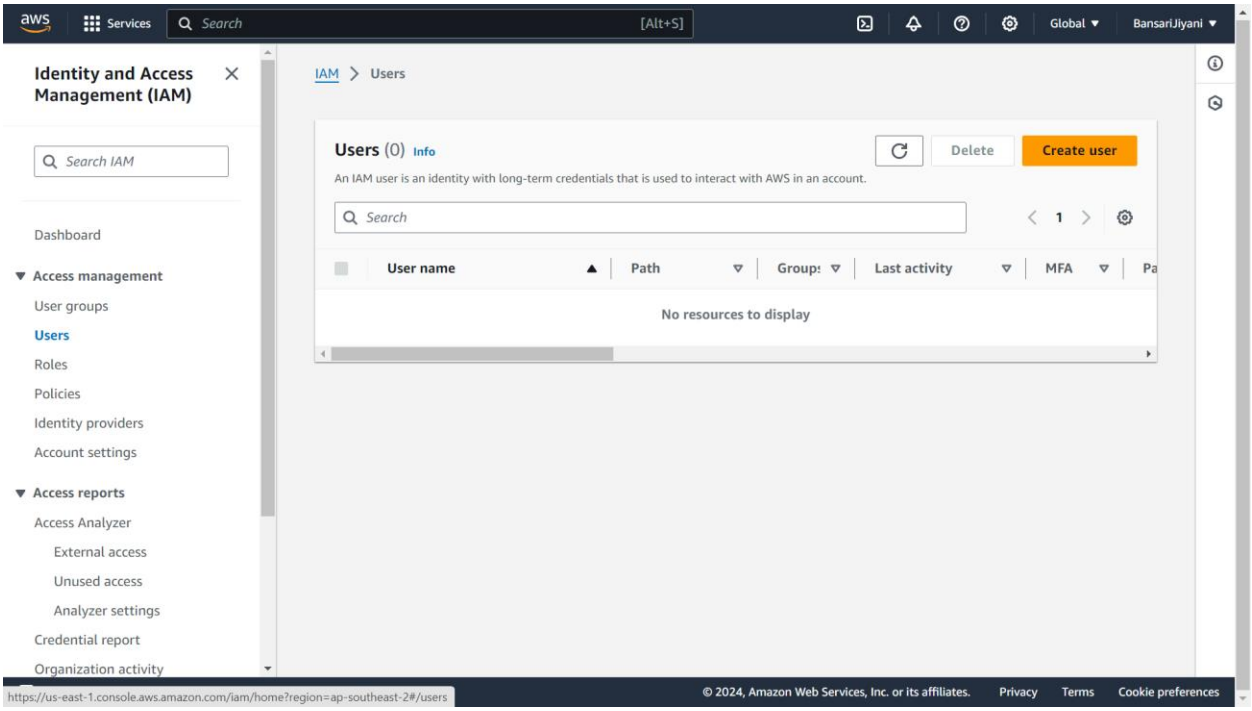
- **Users:** You can create individual users (like employees) who can log in to AWS. Each user can have their own permissions based on what they need to do.
- **Groups**: Users can be grouped together, and permissions can be assigned to the whole group, making it easier to manage access for multiple users at once.
- **Roles**: Roles are used to give permissions to AWS services or applications, allowing them to perform actions on your behalf. For example, a role might allow an application to access data in an S3 bucket.
- **Policies**: These are rules that define what actions are allowed or denied. You attach policies to users, groups, or roles to control their permissions.

PRACTICAL :

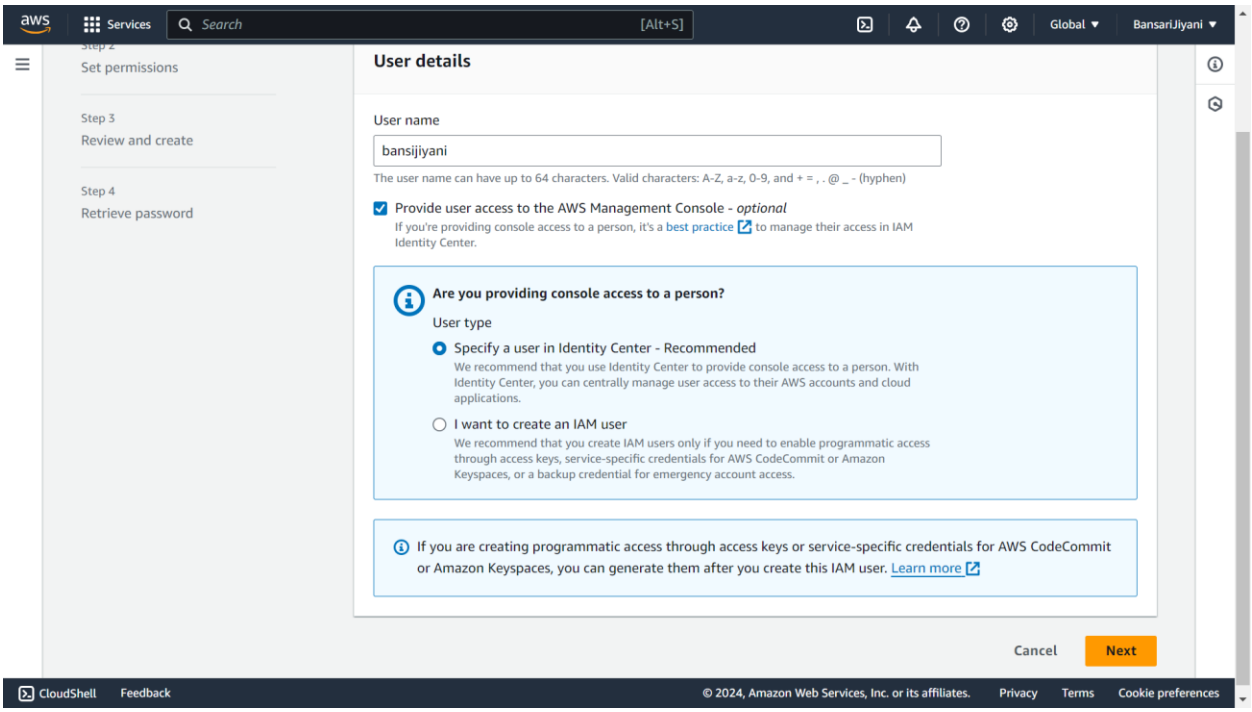
1. Search IAM and open it.



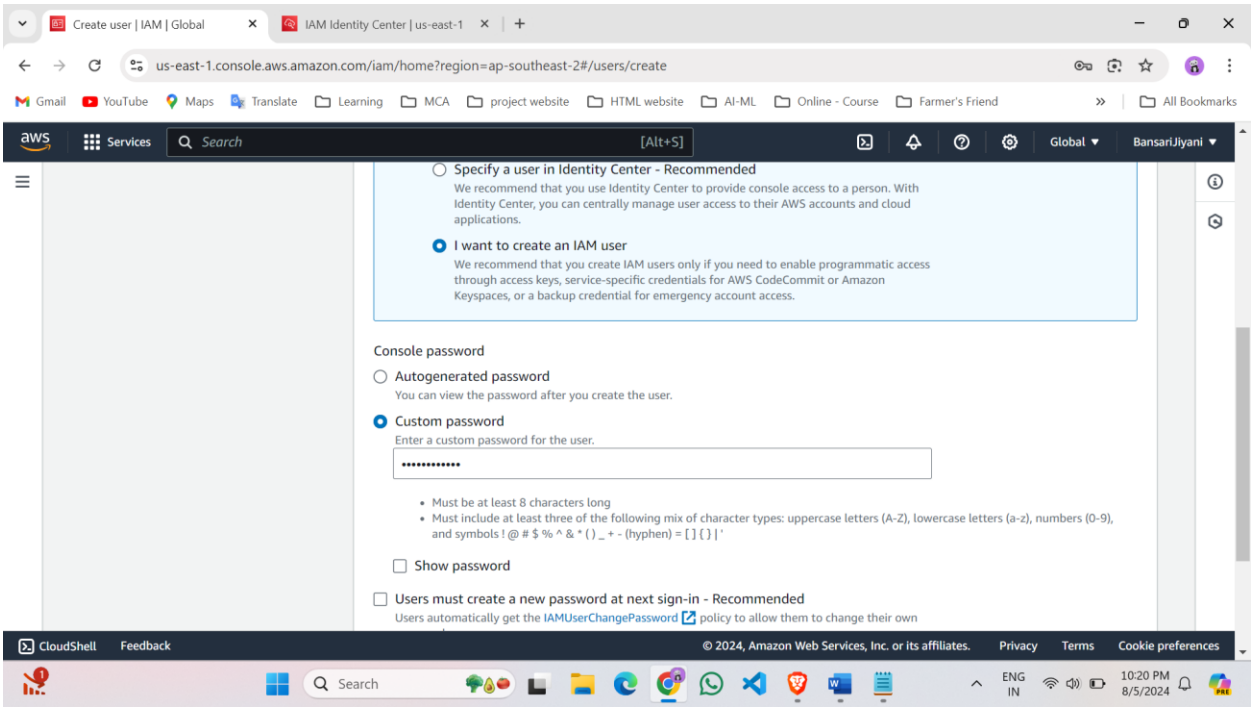
2. Go to the users in left side. And click on Create user for create new user .



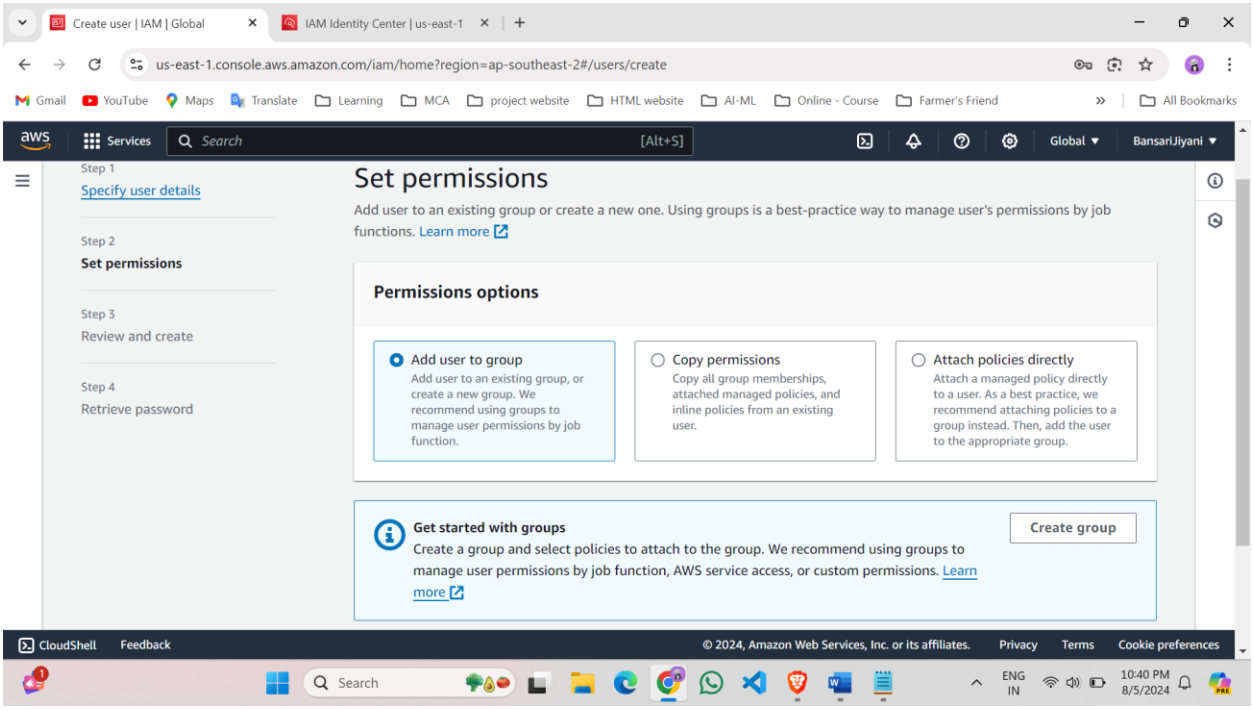
3. Add name for create user.



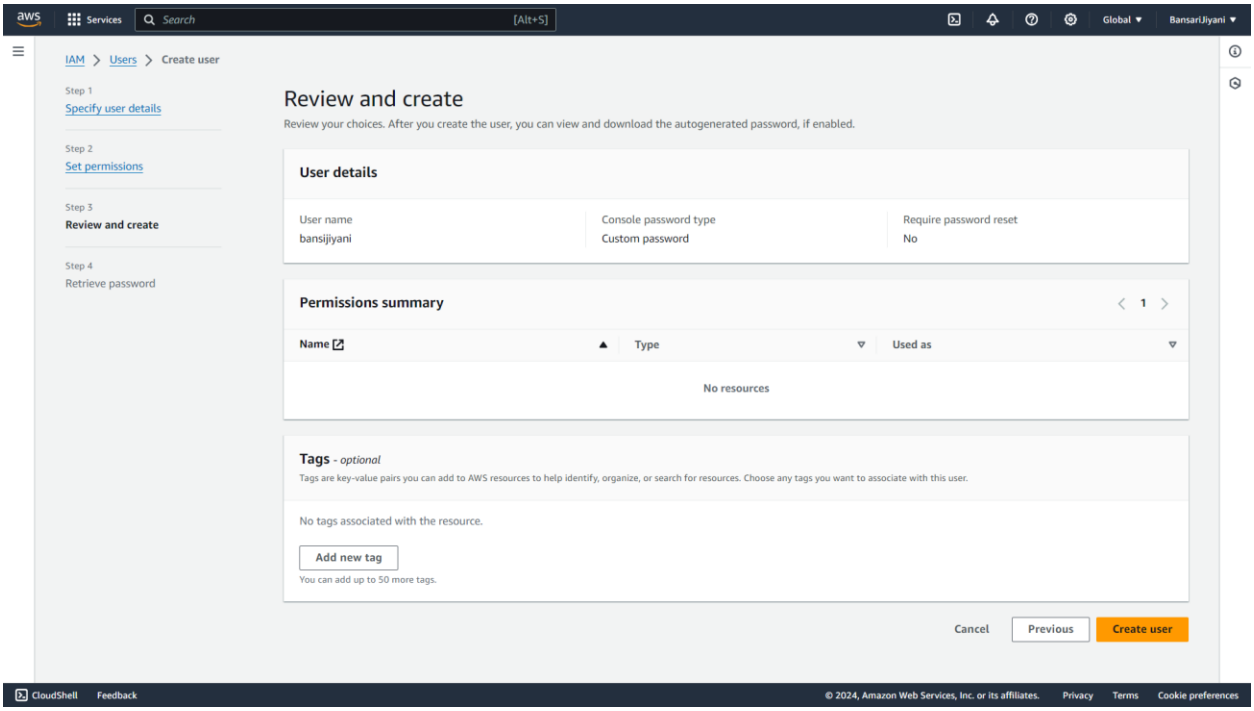
4. Select I want to create an IAM user. And add password. And uncheck the users must create new password at next sign-in.



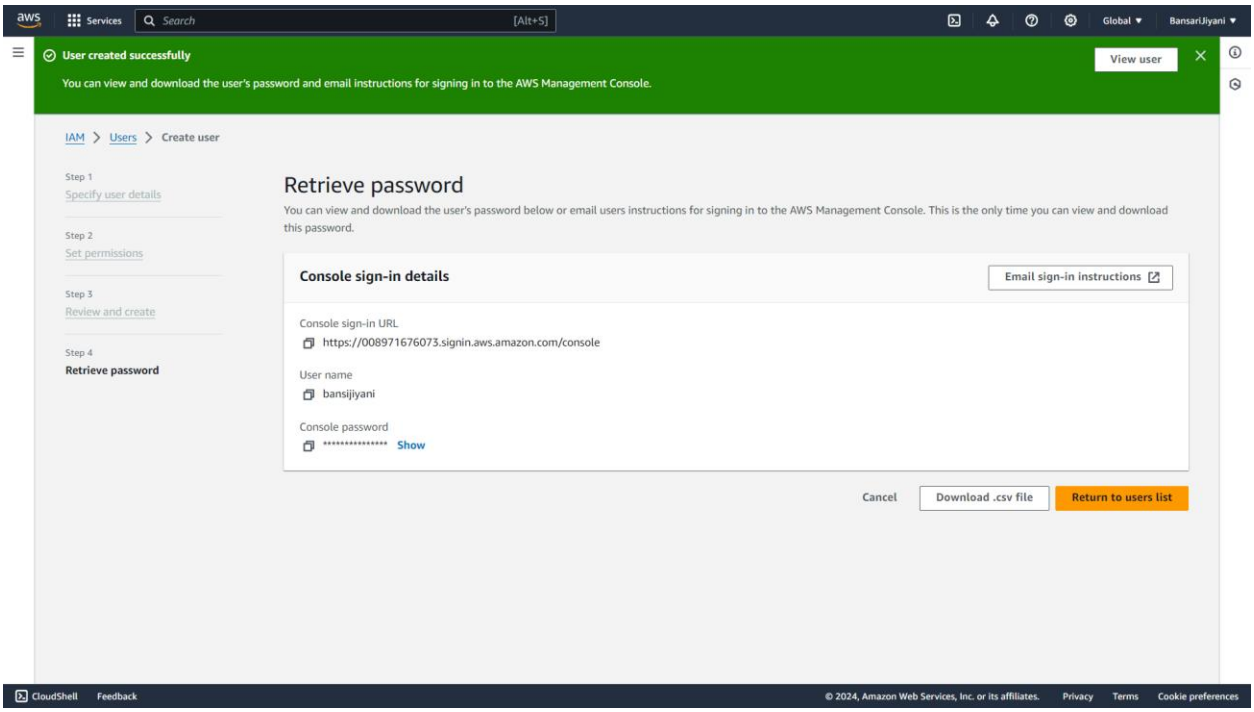
5. Go to the Set permission and in my case I am not giving any permission because after we know that which permission is given by default.



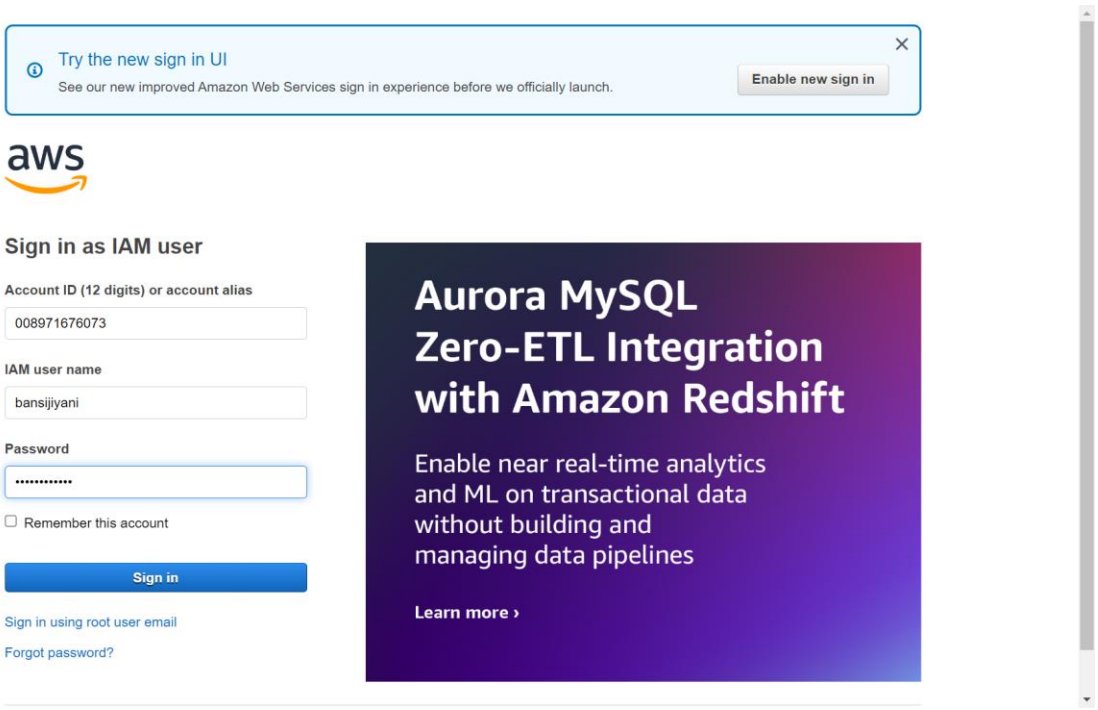
6. Click next and review and create the user.



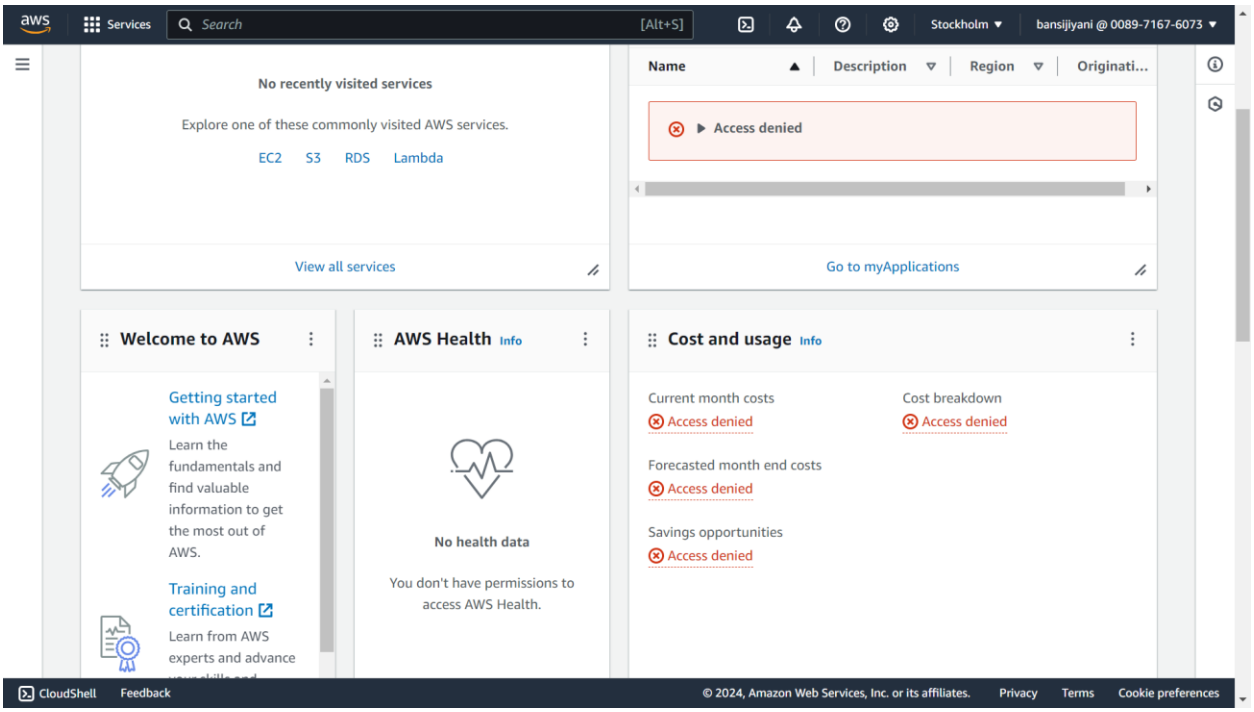
7. Now you get the UserID , user name and password.

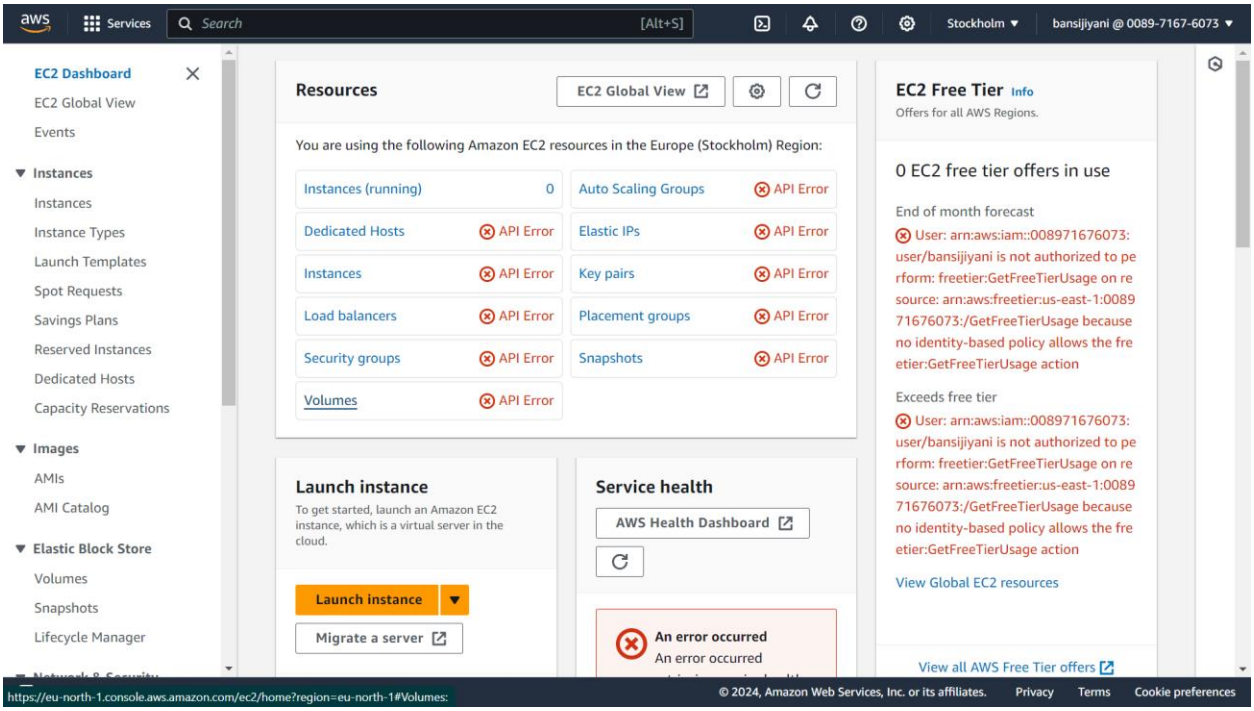


8. Now open AWS console for log in user and select IAM user and write Account ID from above Console sign-in URL in retrieve password page and sign-in.
   URL : https://**008971676073**.signin.aws.amazon.com/console

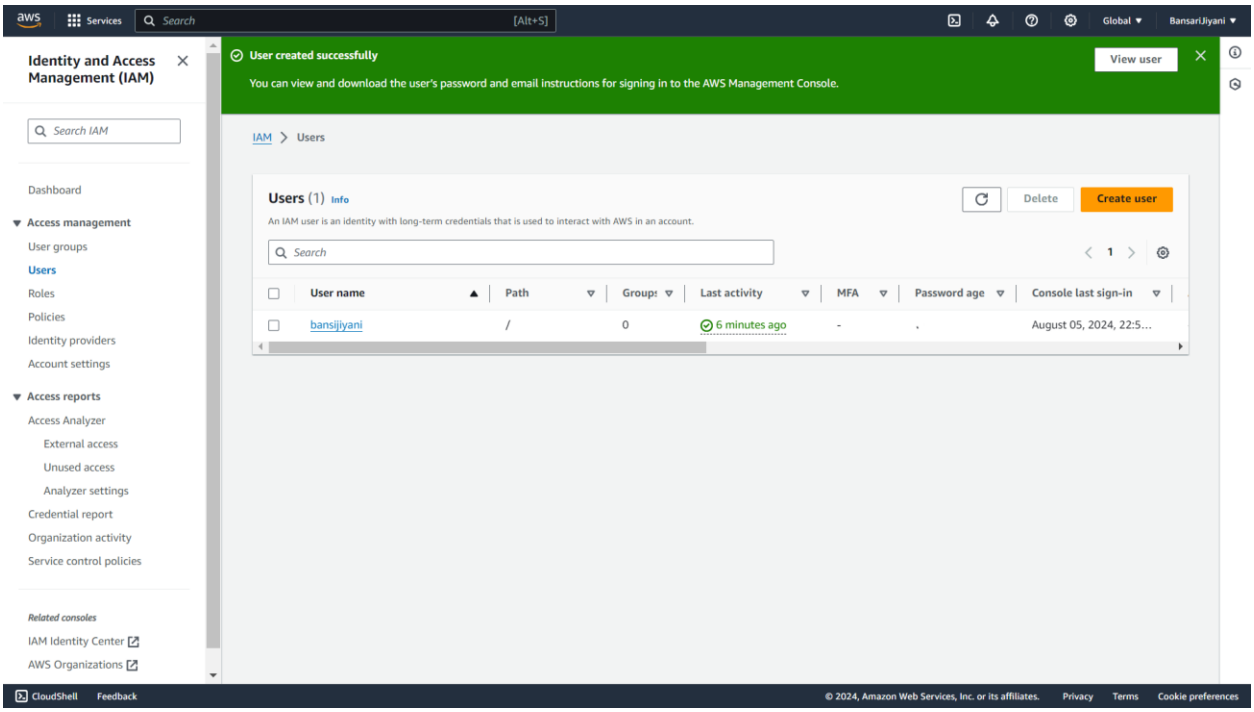


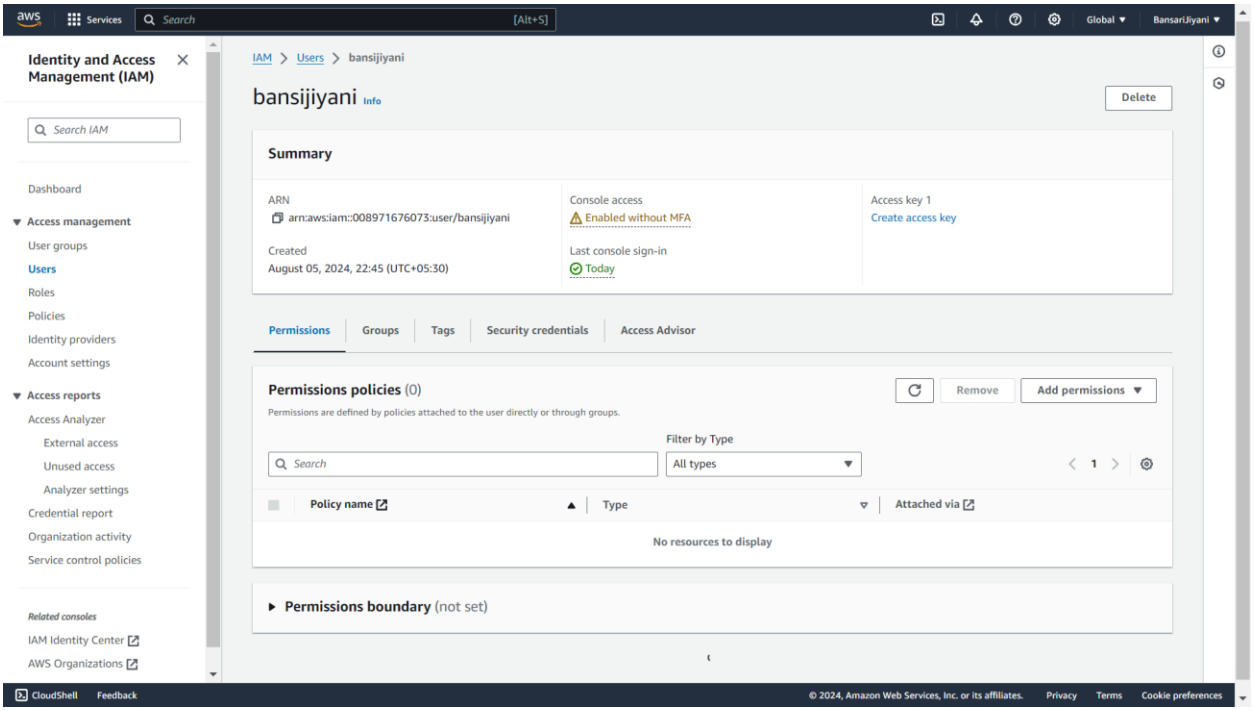
9. By default it is not given any access.



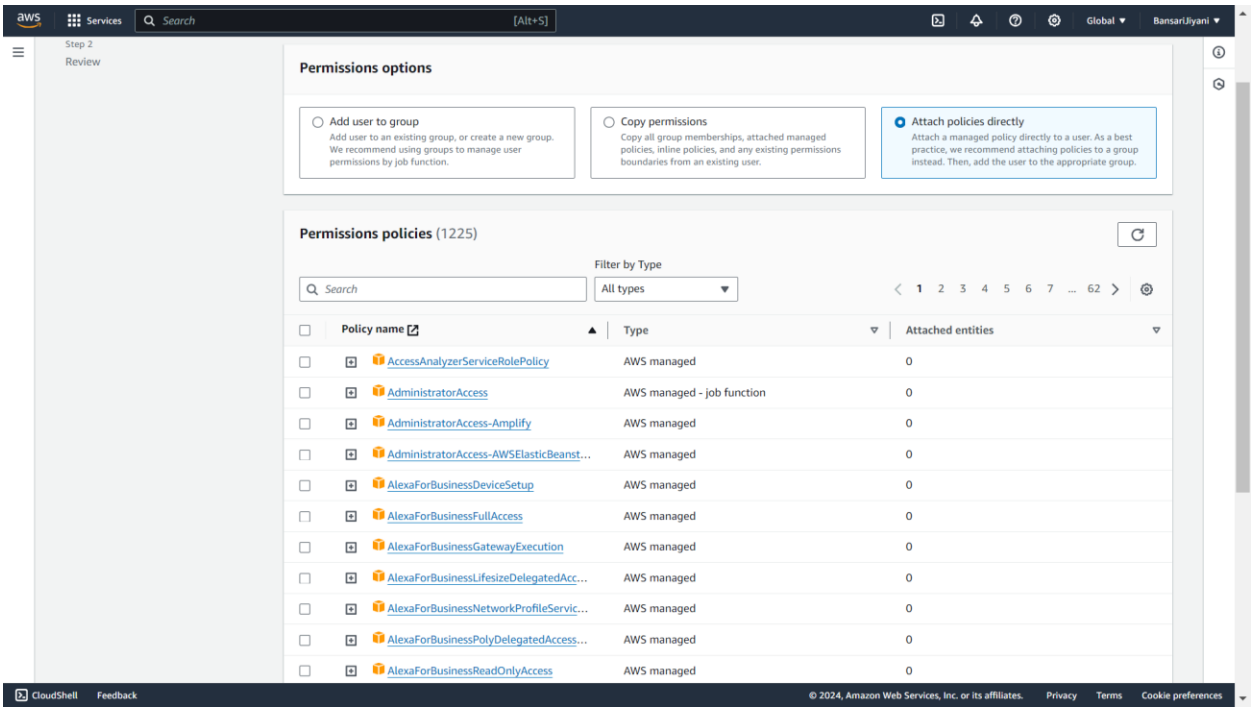


10.Now we give access to this user for the EC2. So go to the user create page

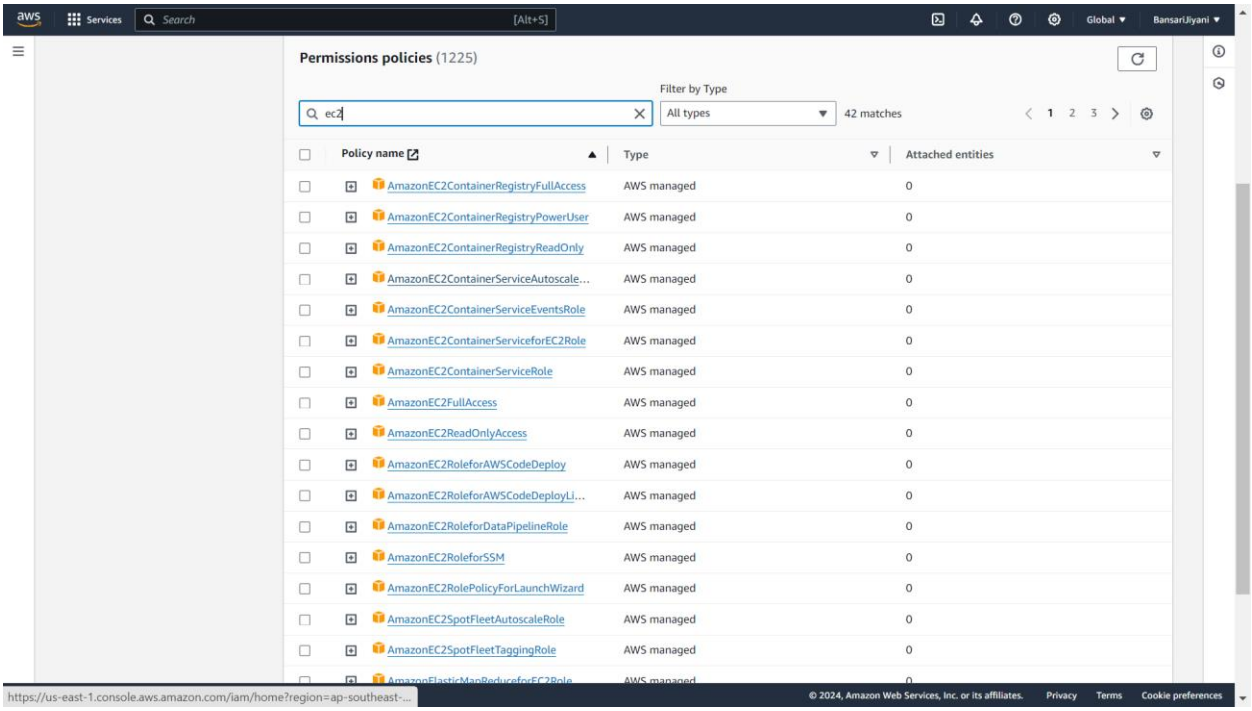




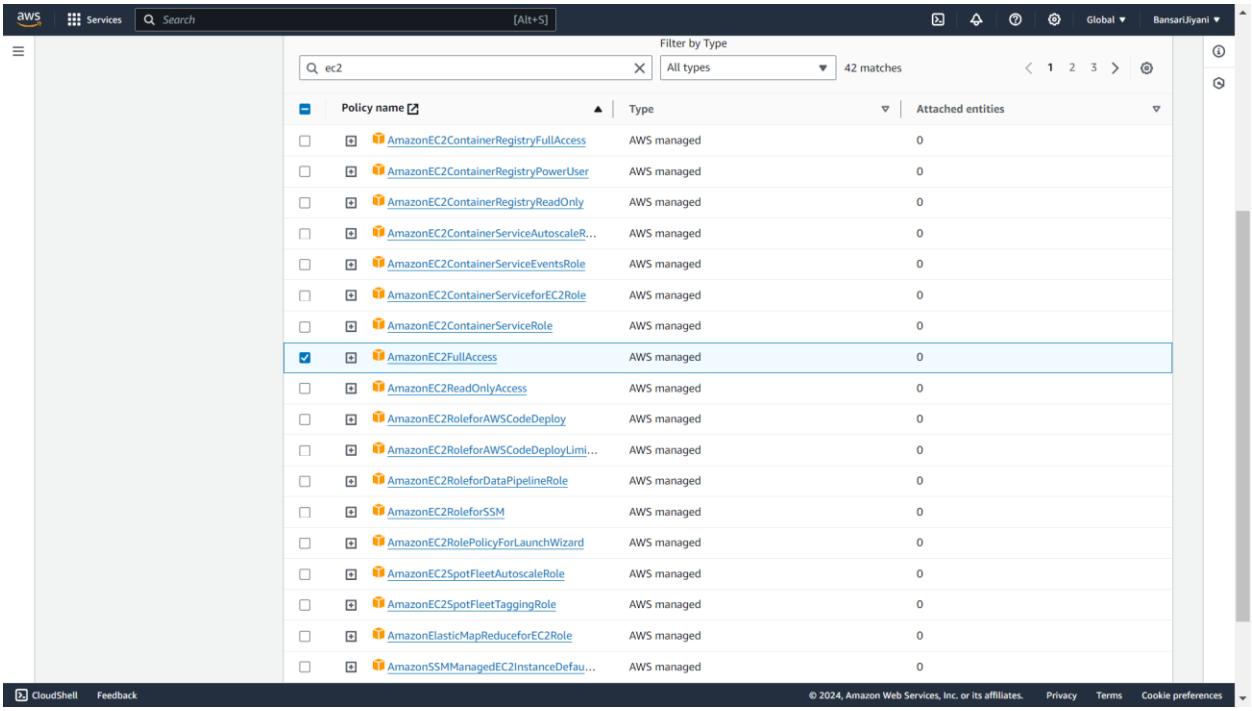
Click to the Add permission and select attach policy directly.



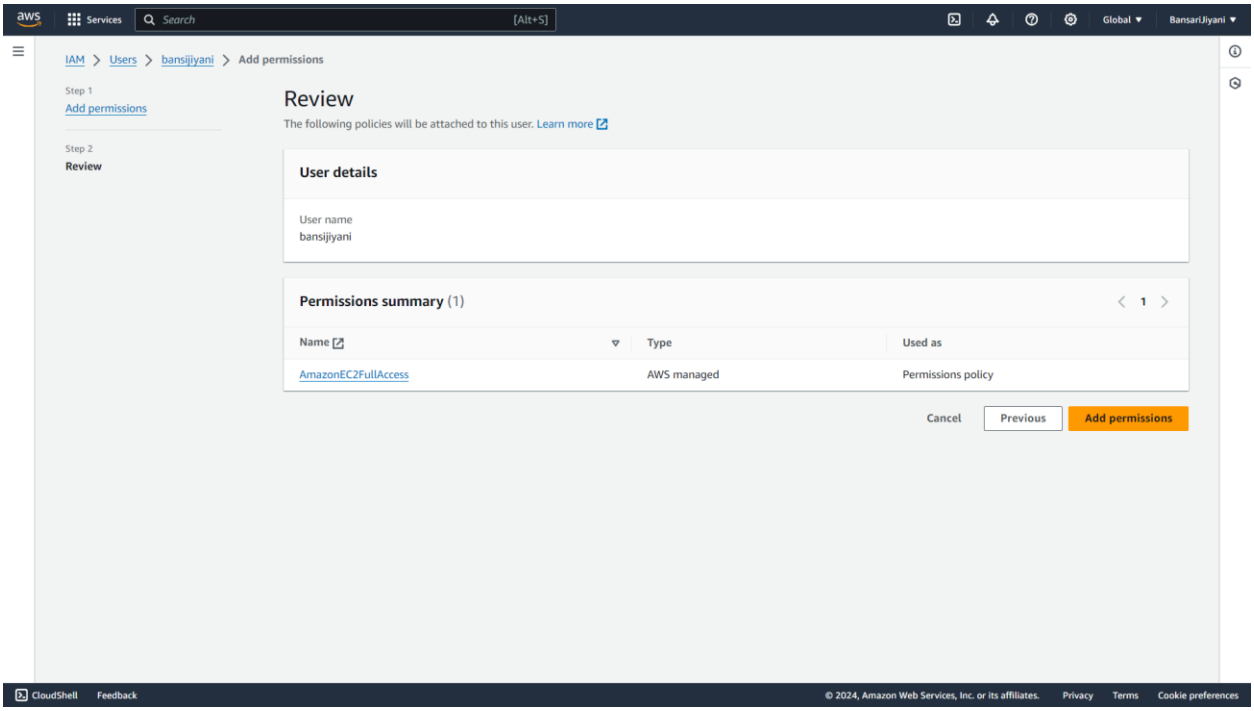
Here you can see different type of access.



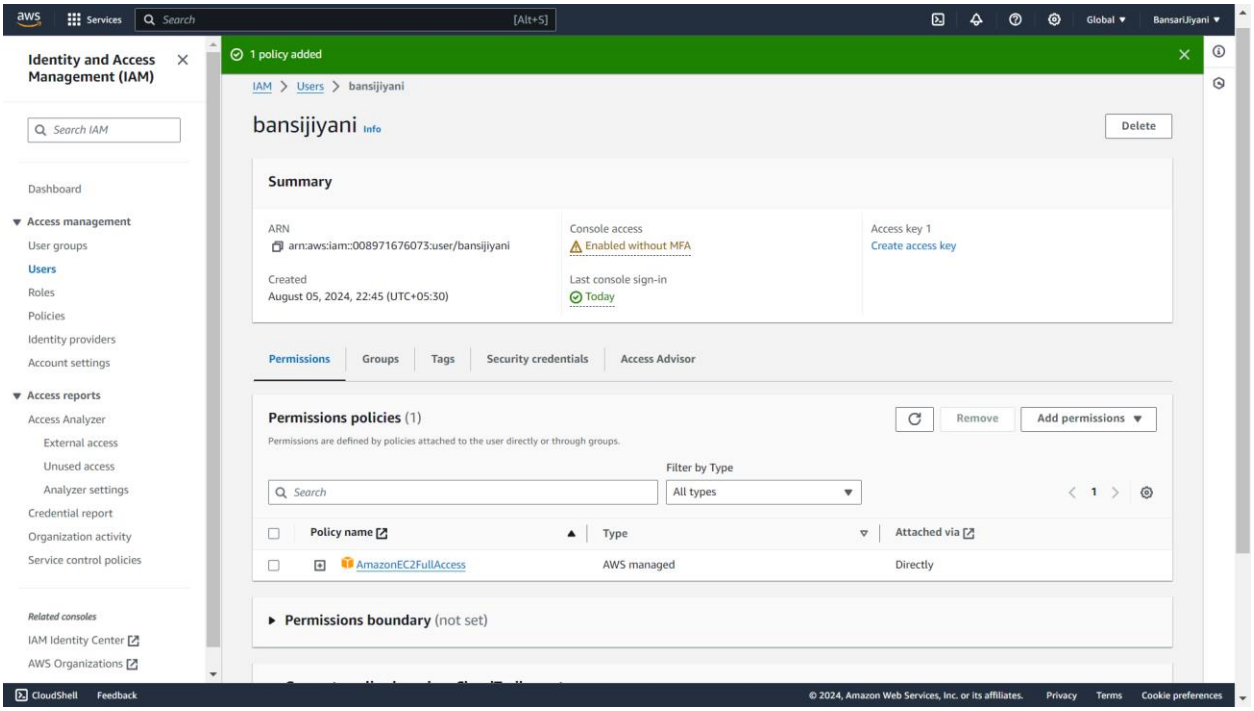
I want to give full access so that it can be read or write both and user get full permission for create any service/machine.



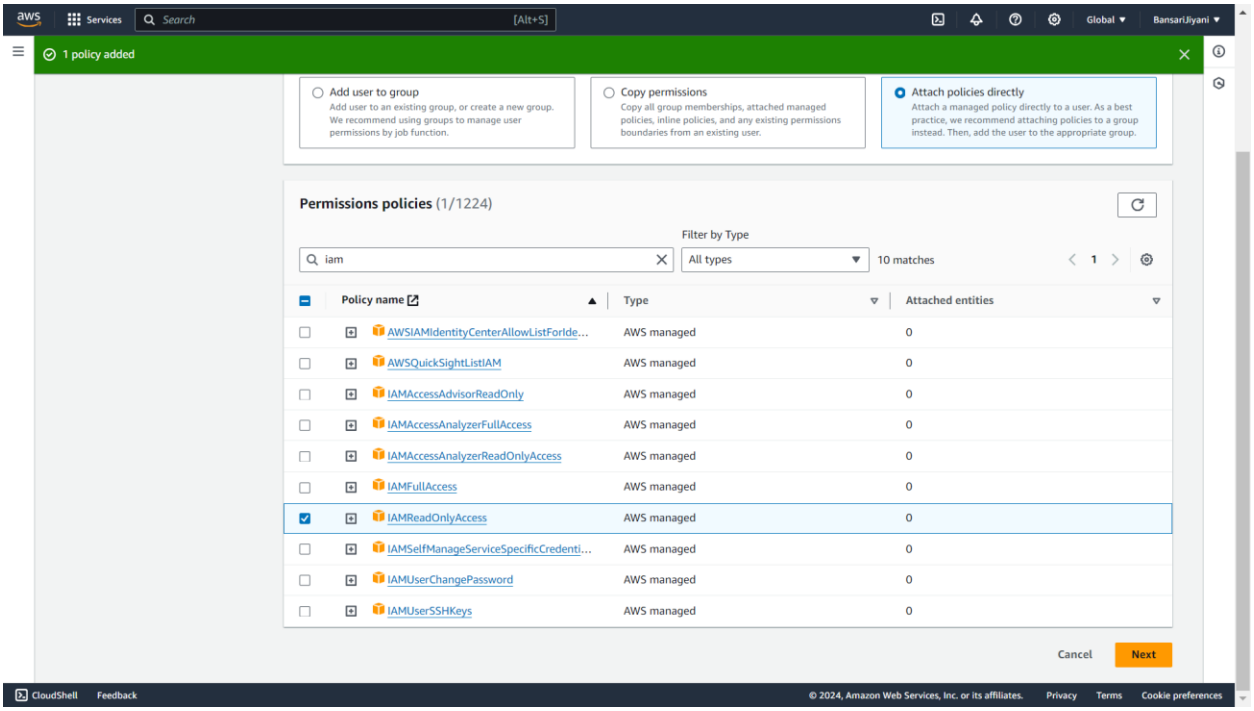
Add this permission.

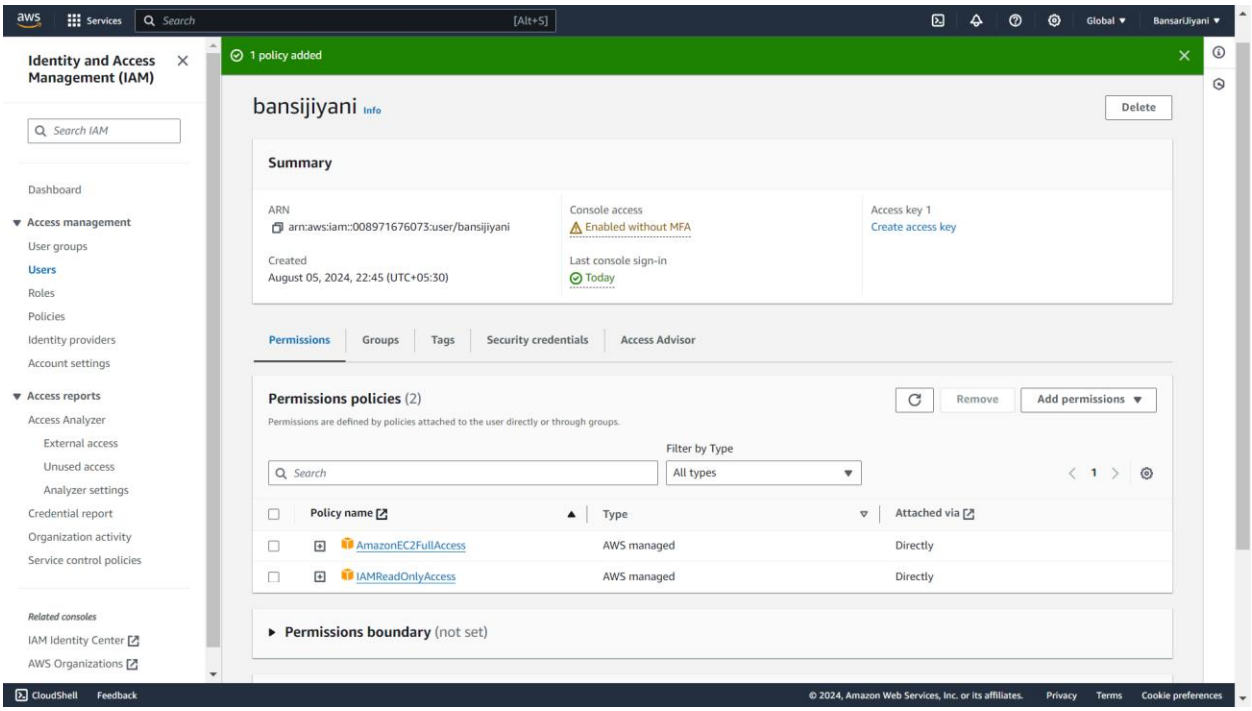


Now you can see here your permission which you gave to the user in permission policies.

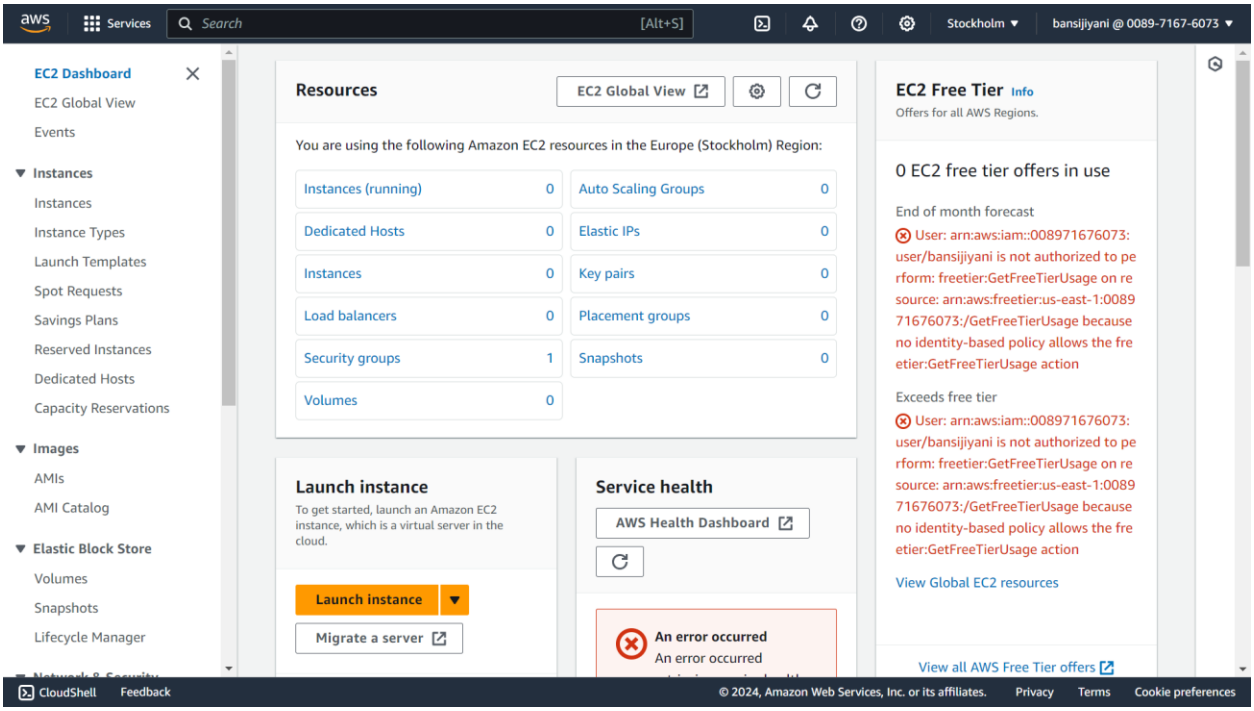


Also add IAM read only access and check the permission.

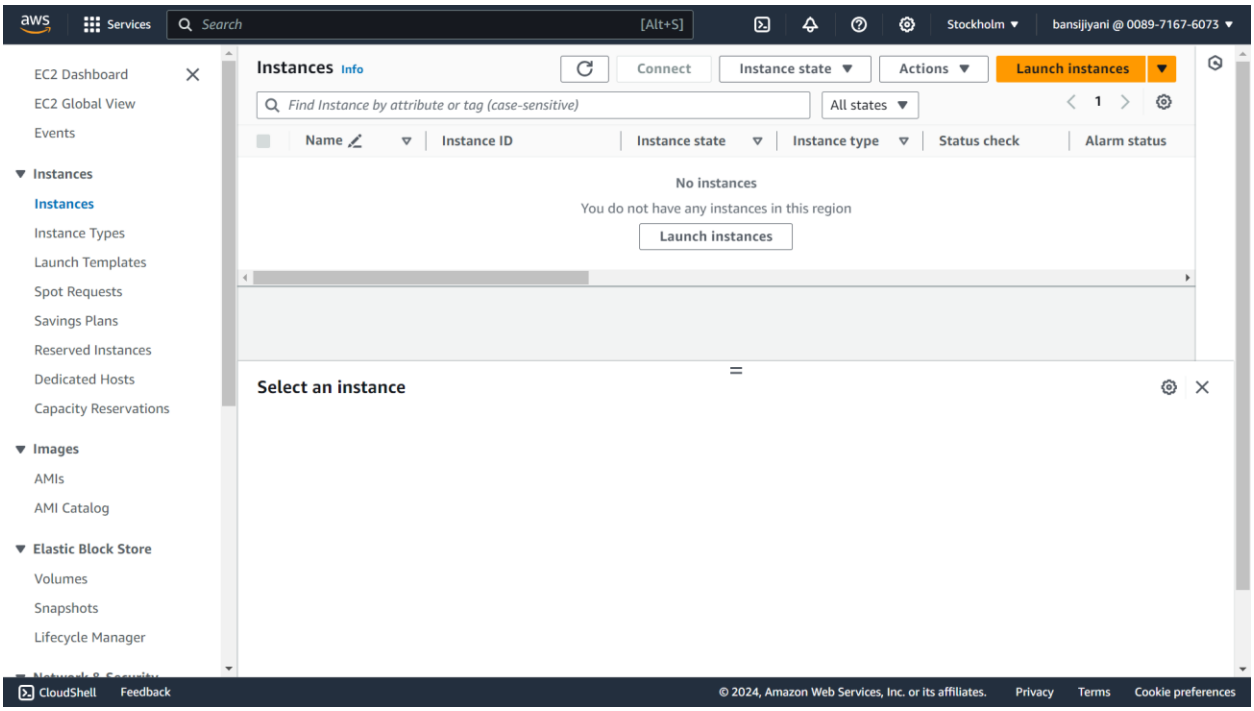




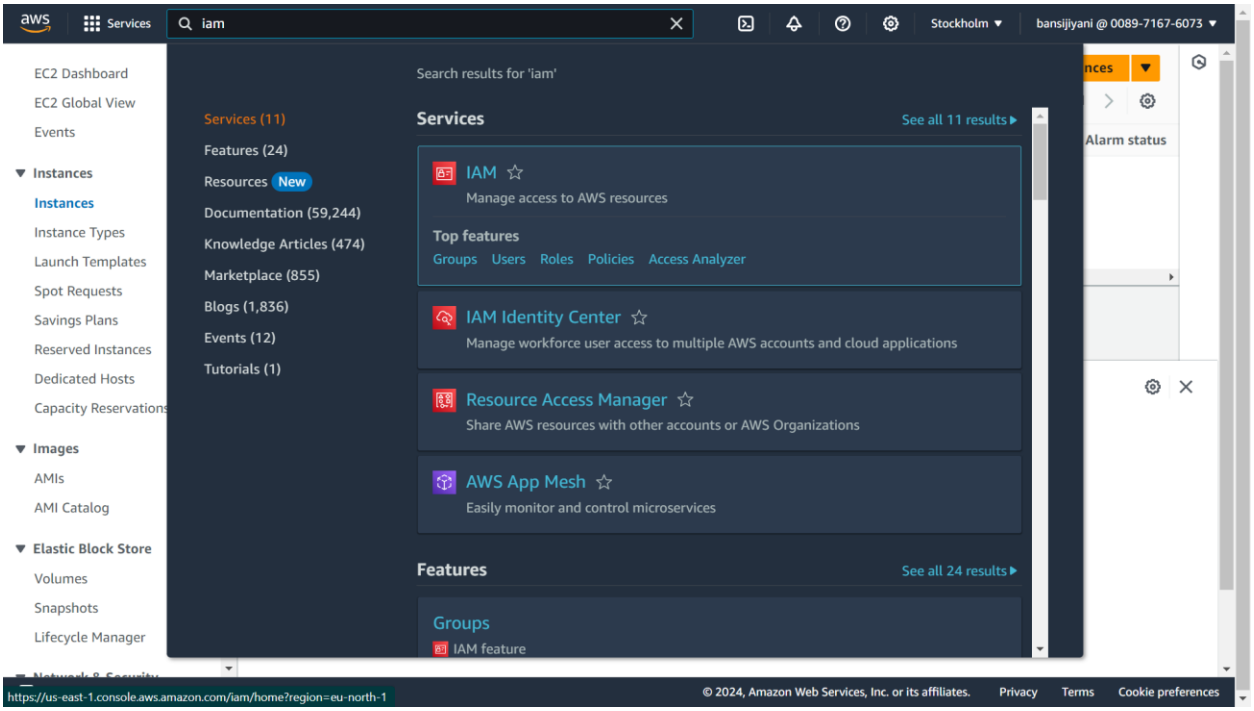
Now go to the user dashboard and check the permission.



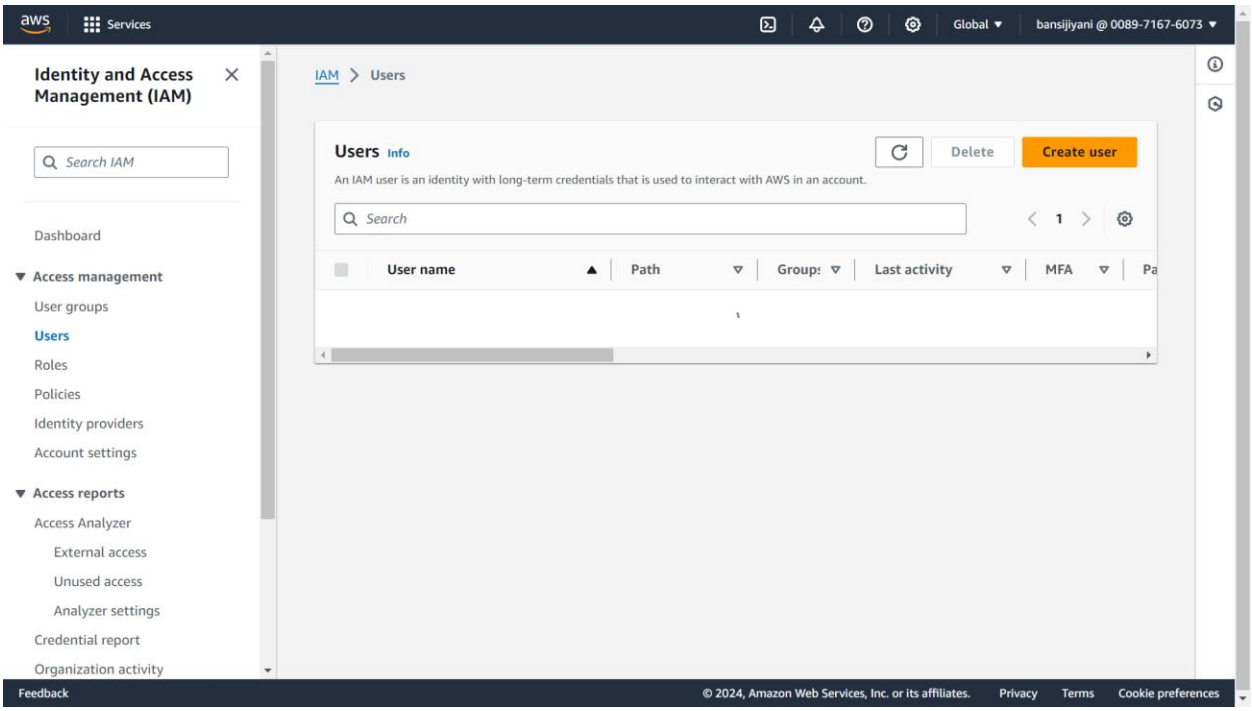
Now it is ready to create instance.



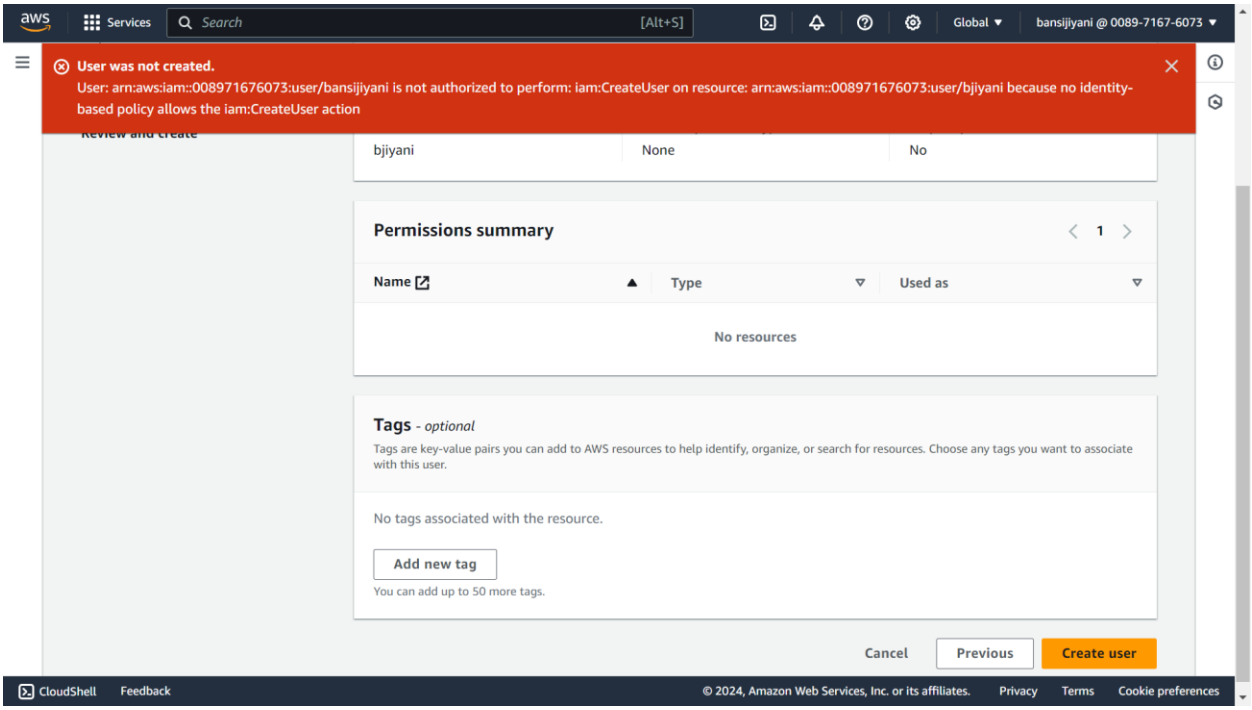
Now go to the IAM in user dashboard and create user.



Create a user in this service.



When we create the user it throws error because we are not giving the permission in main user for create another user in IAM.

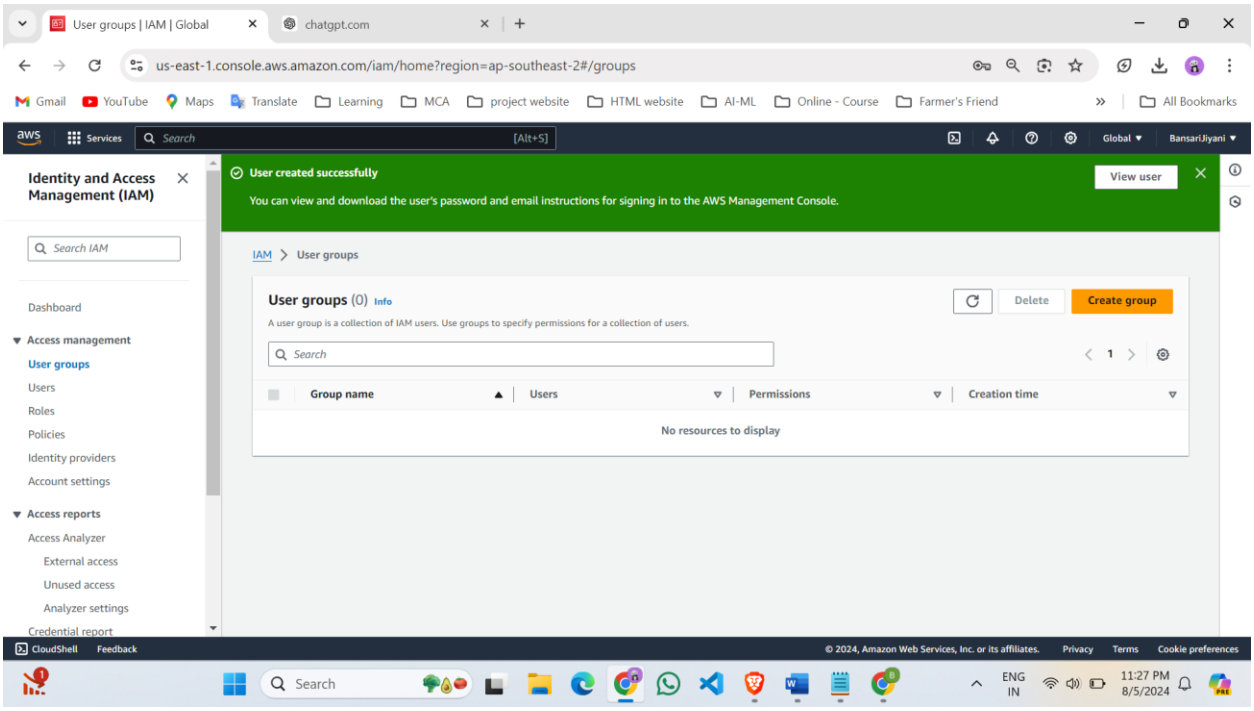


We have to give permission for any access.

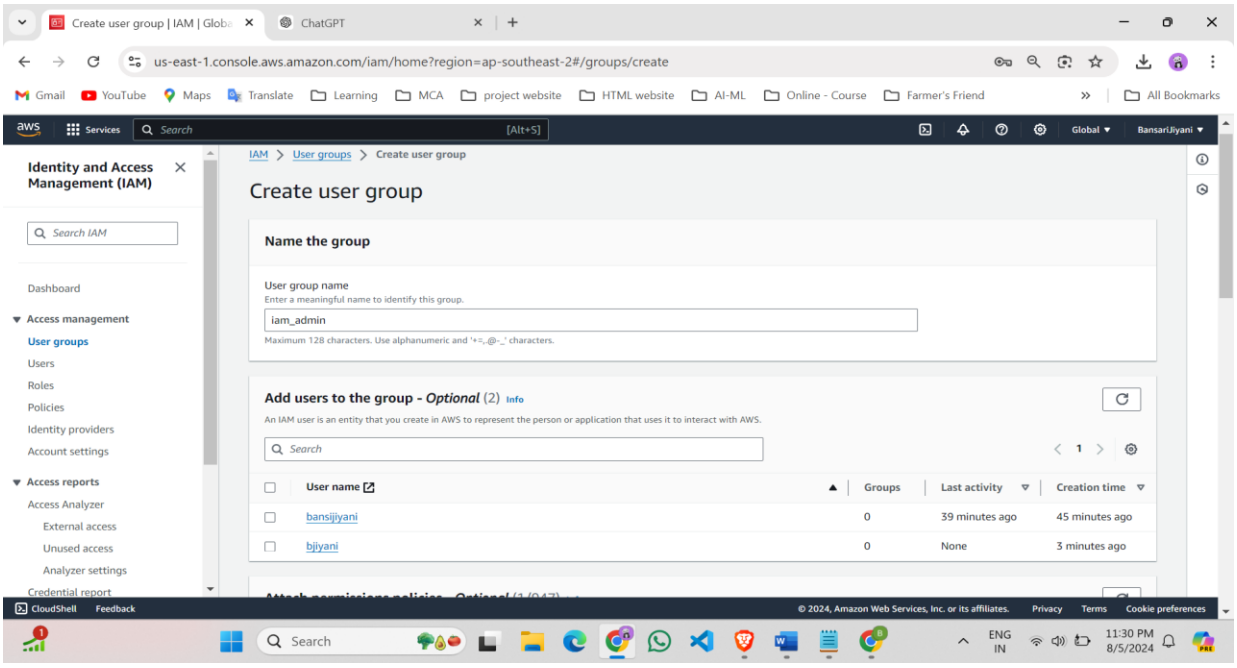
User Groups :

We can also create a Groups like user name.

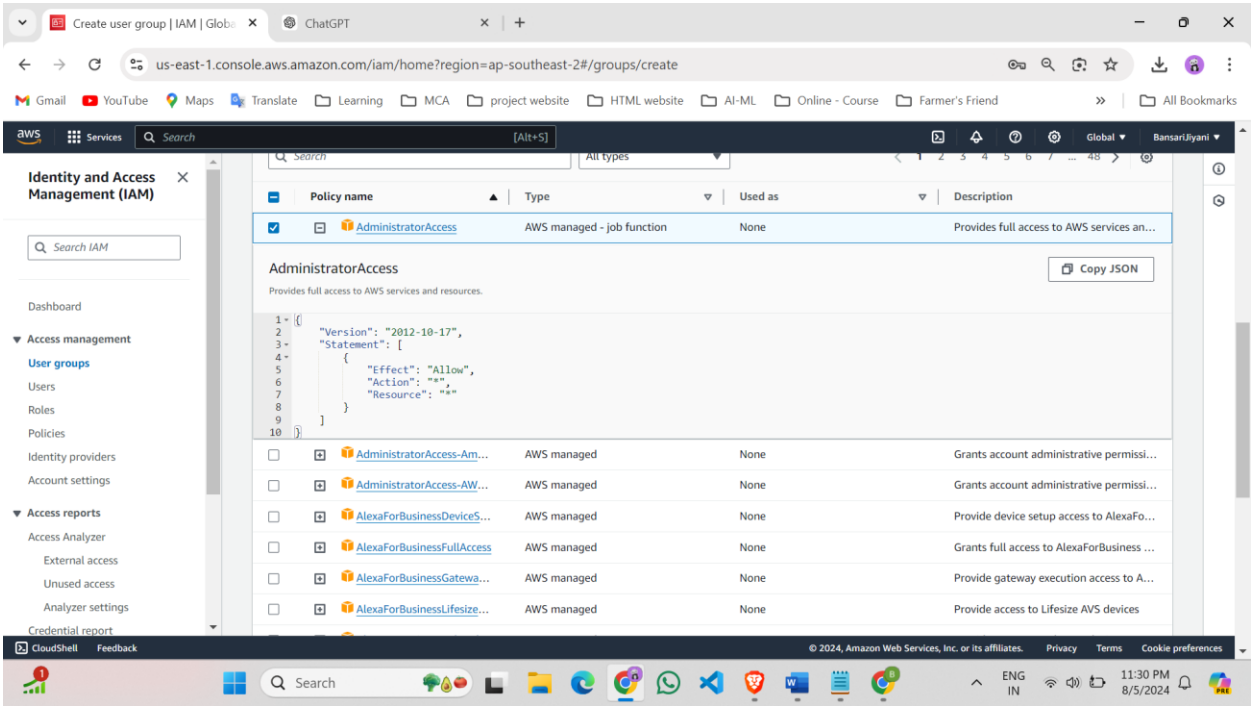
1. Create group.



2. Give the group name.



3. Give this permission for full access.



We can also create a user and groups as per our choice.