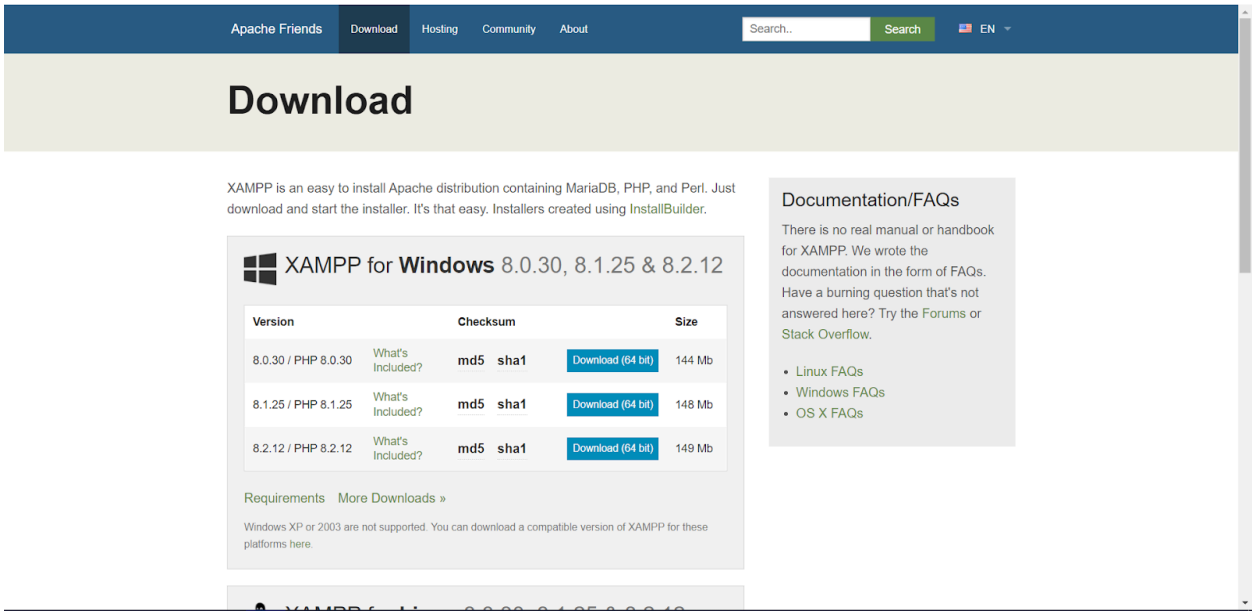
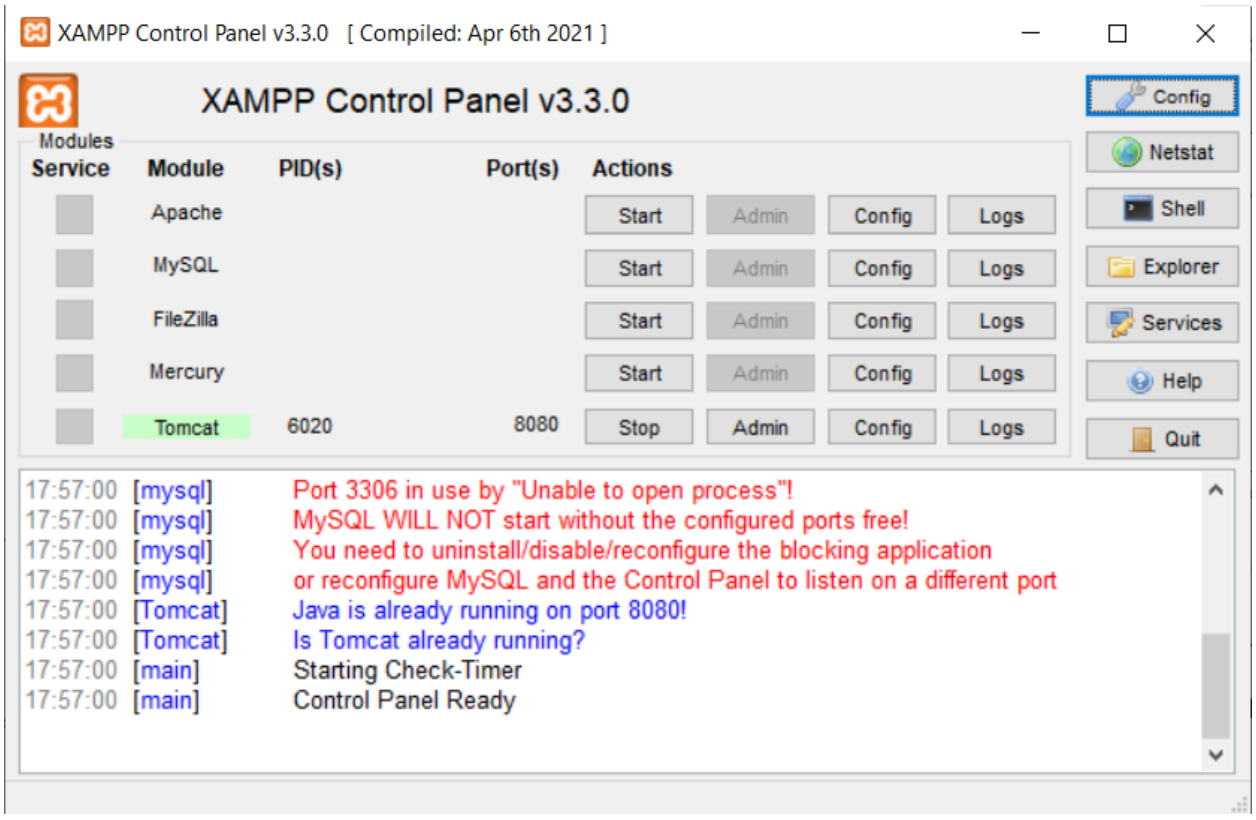
Exp 1a: Prerequisites

Xampp

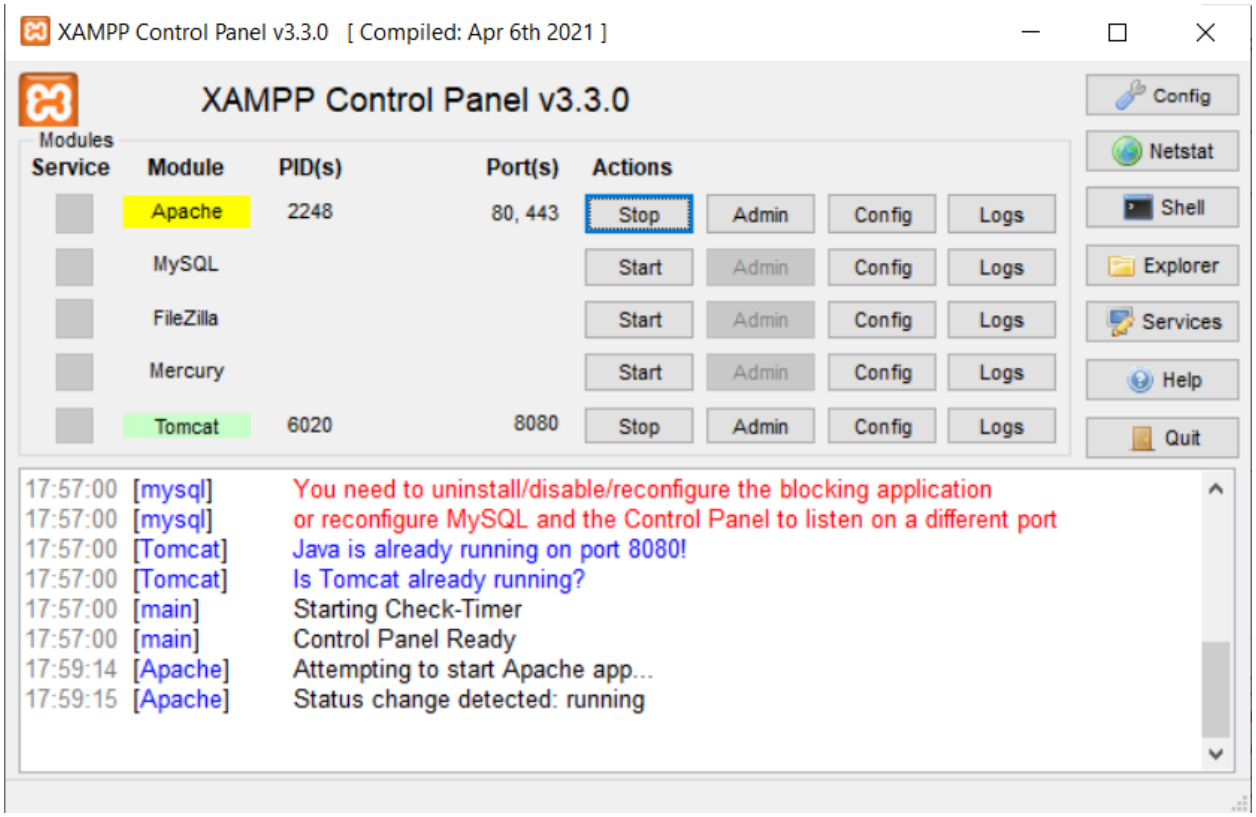
1. Go to the official website of Xampp. https://www.apachefriends.org/download.html. Select the suitable version and complete the installation.



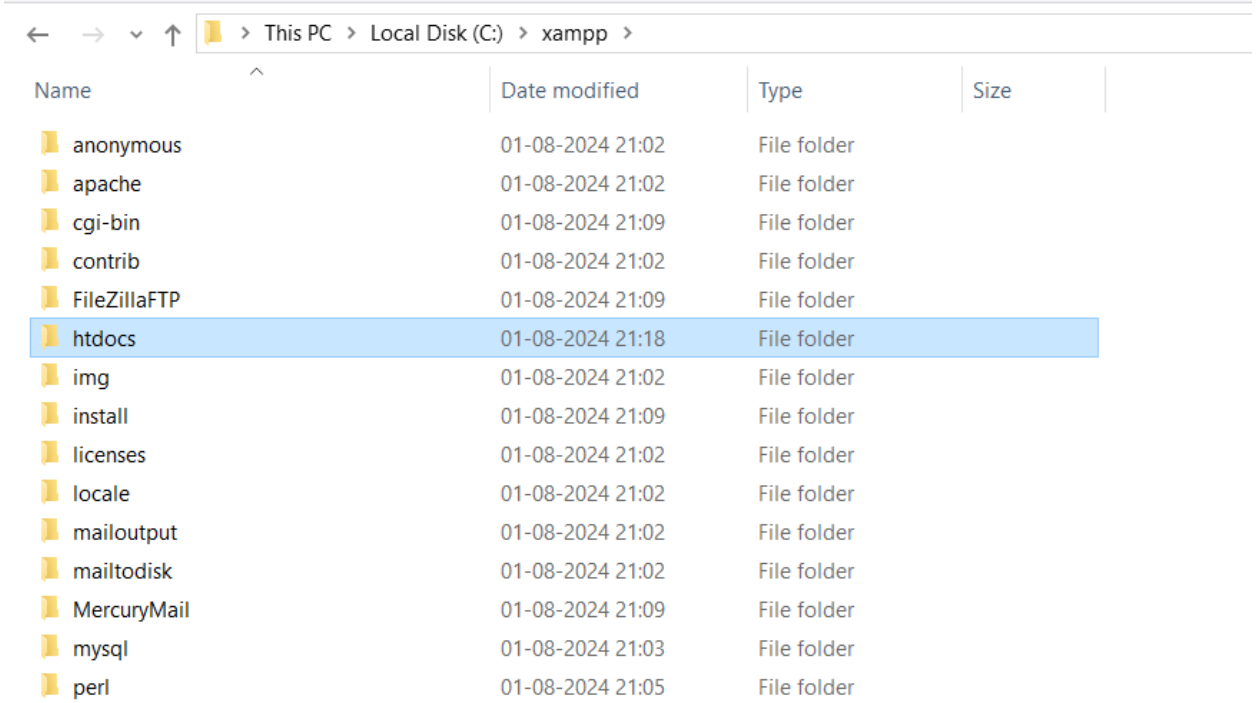
2. Once installation is complete, open the Xampp control panel. To host a php project locally we require to start the apache server.



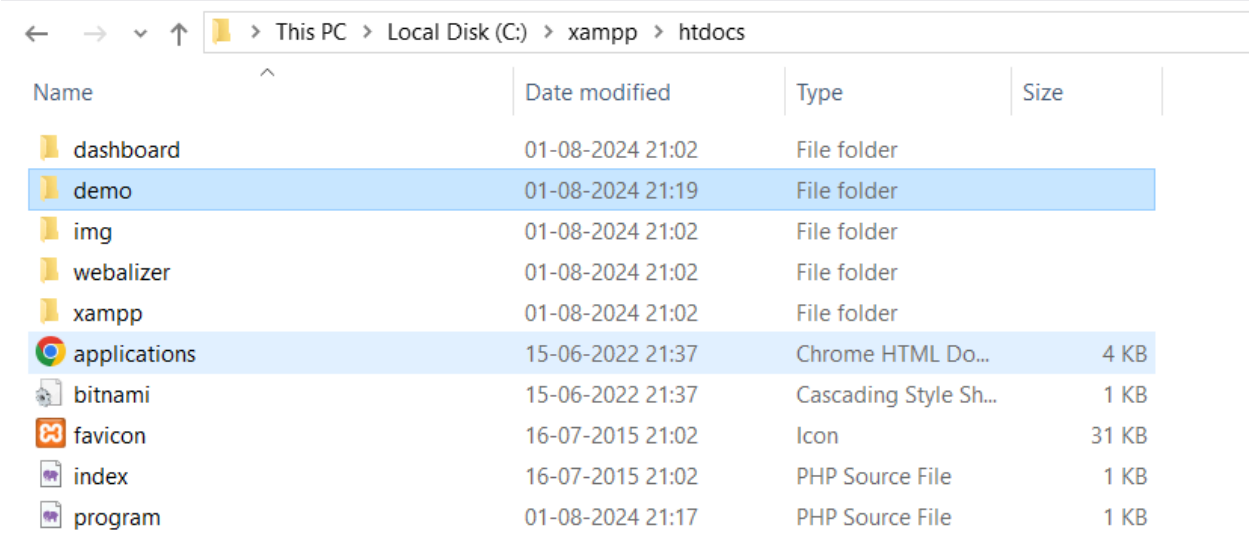
3. Click on start in front of apache and wait for the server to start.



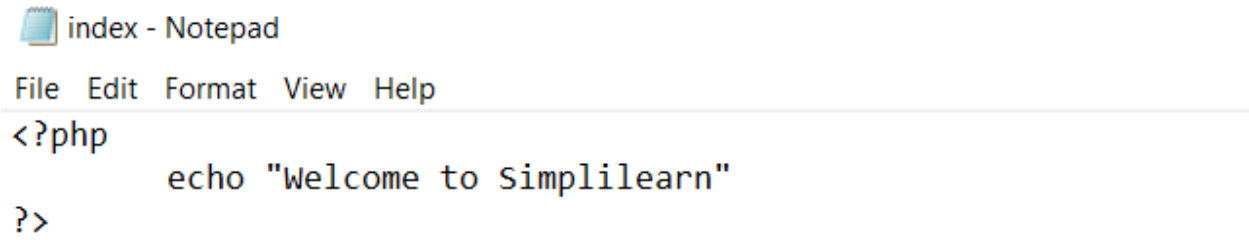
4. We can now set up the php project. In the xampp folder in C drive there will be a folder named htdocs. Every project that we want to host locally should be present in htdocs.



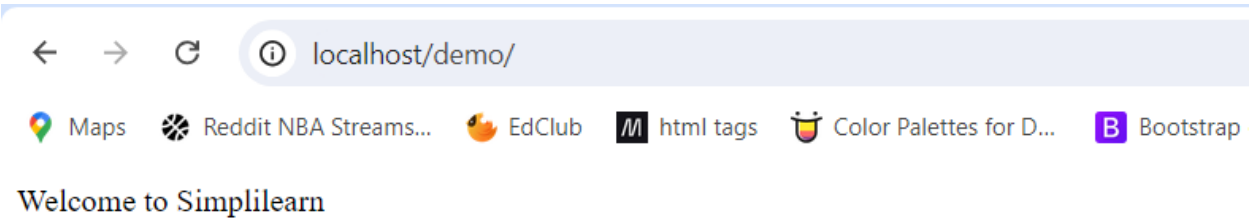
5. We will create a project named demo inside htdocs. This demo folder will contain our php source code.



6. Open the notepad and write a simple php script. Save this file inside the demo folder.

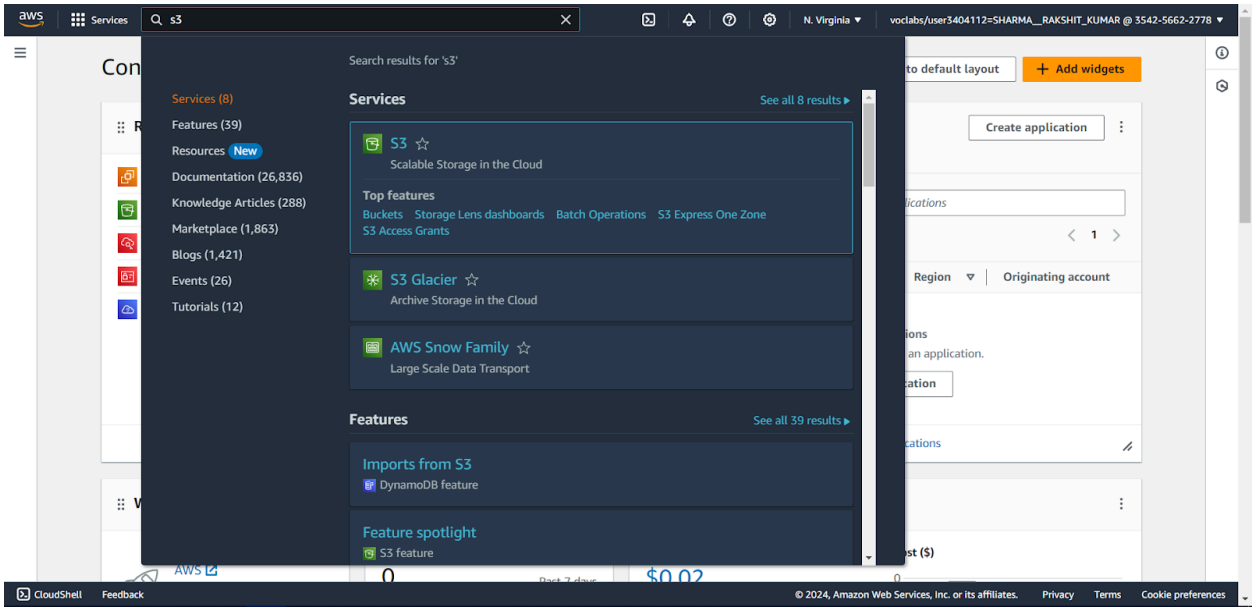


7. Go to your web browser and type “localhost/project_folder_name”, “localhost/demo” in this case. And we can see that our php script has been hosted locally using Xampp.

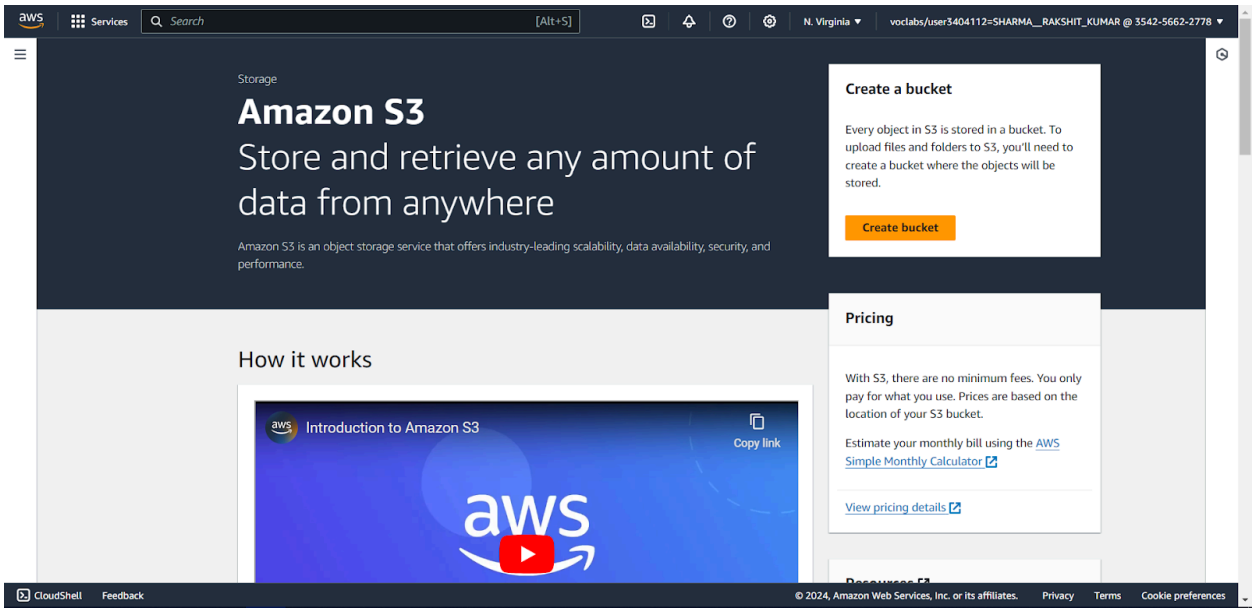


S3

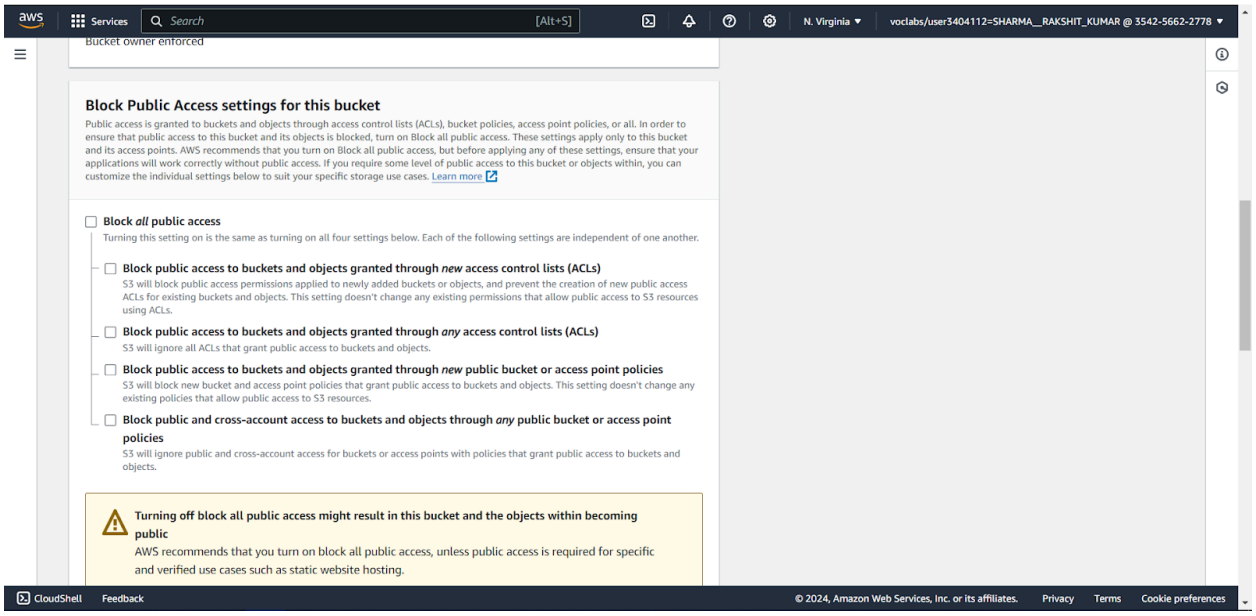
1. Go to the AWS academy lab and search for s3 service.



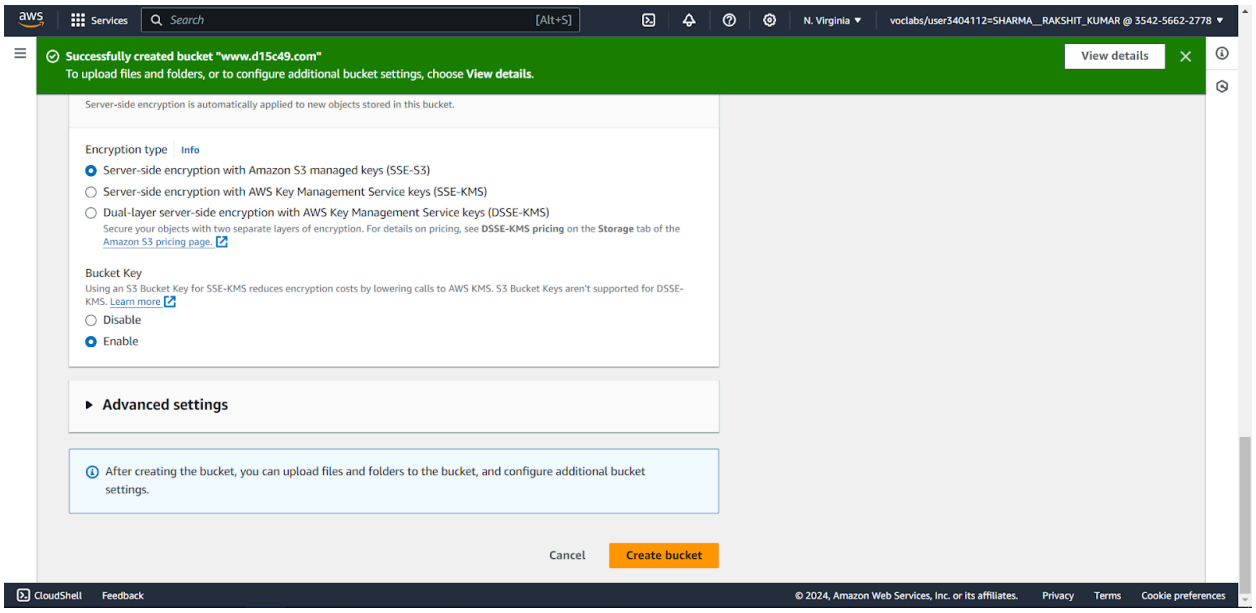
2. In the s3 service select the create bucket option.



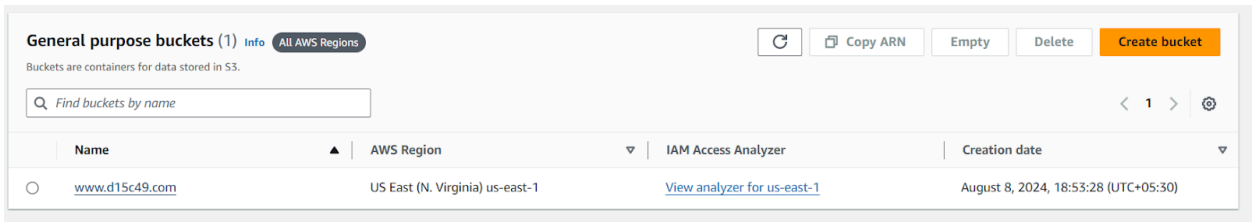
3. Select the name for bucket. Enter other details. Uncheck the block all public access option. Checking this box will give the 403 error when we try to access the website.



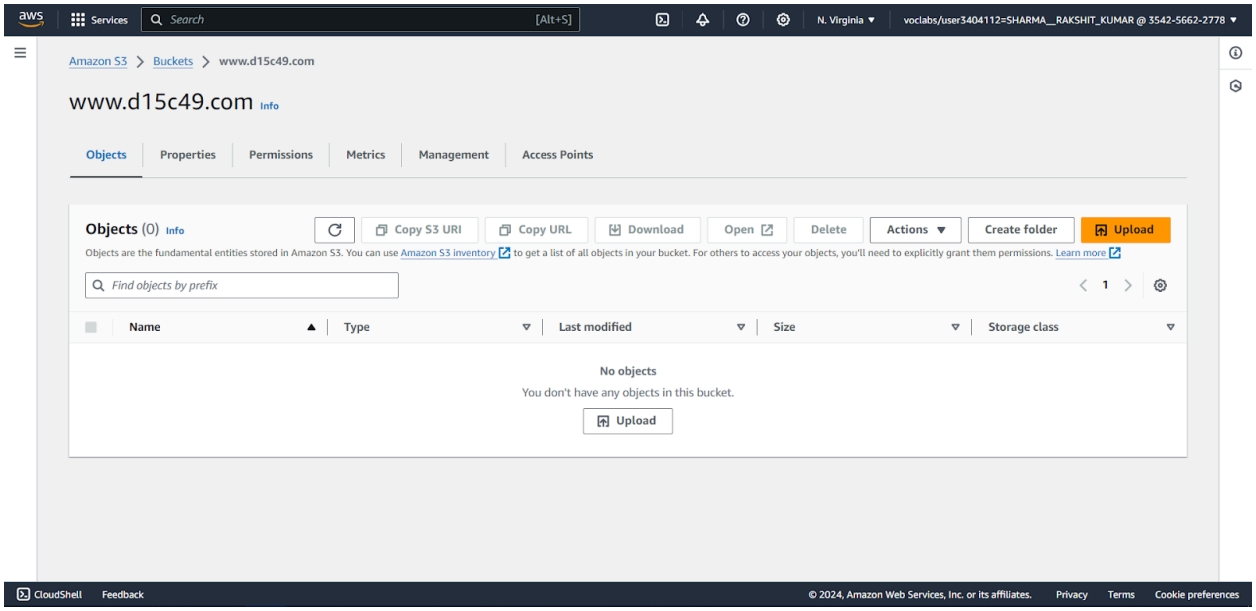
4. Use default setting for other options. Once configuration is completed, click on create bucket.



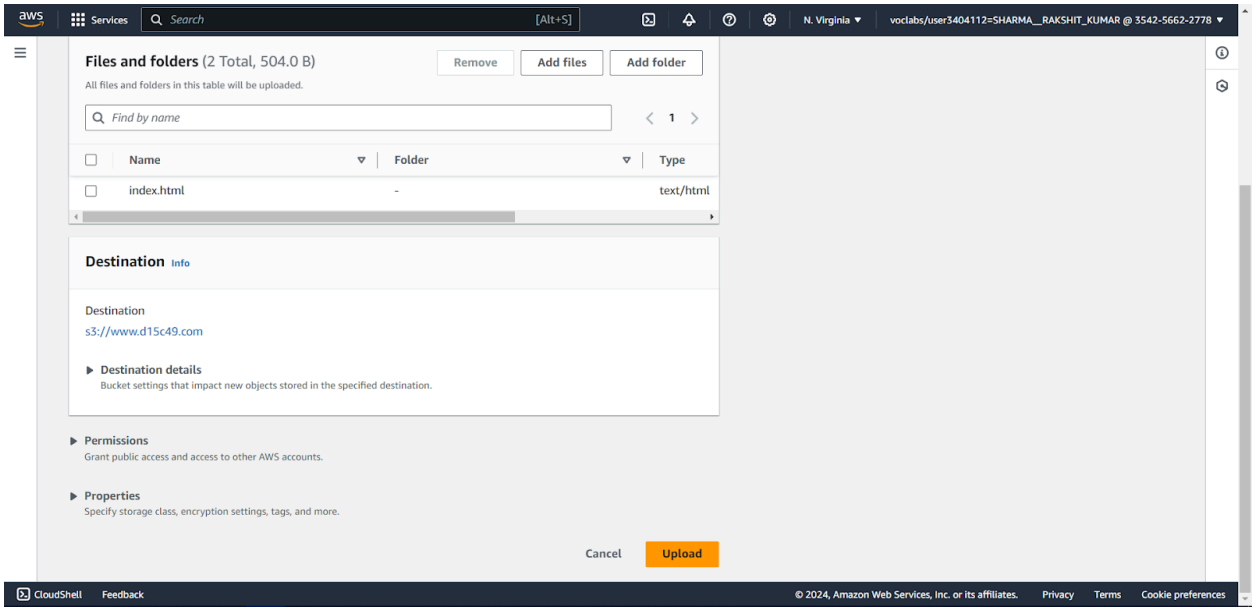
5. You can see the buckets created in General purpose buckets.



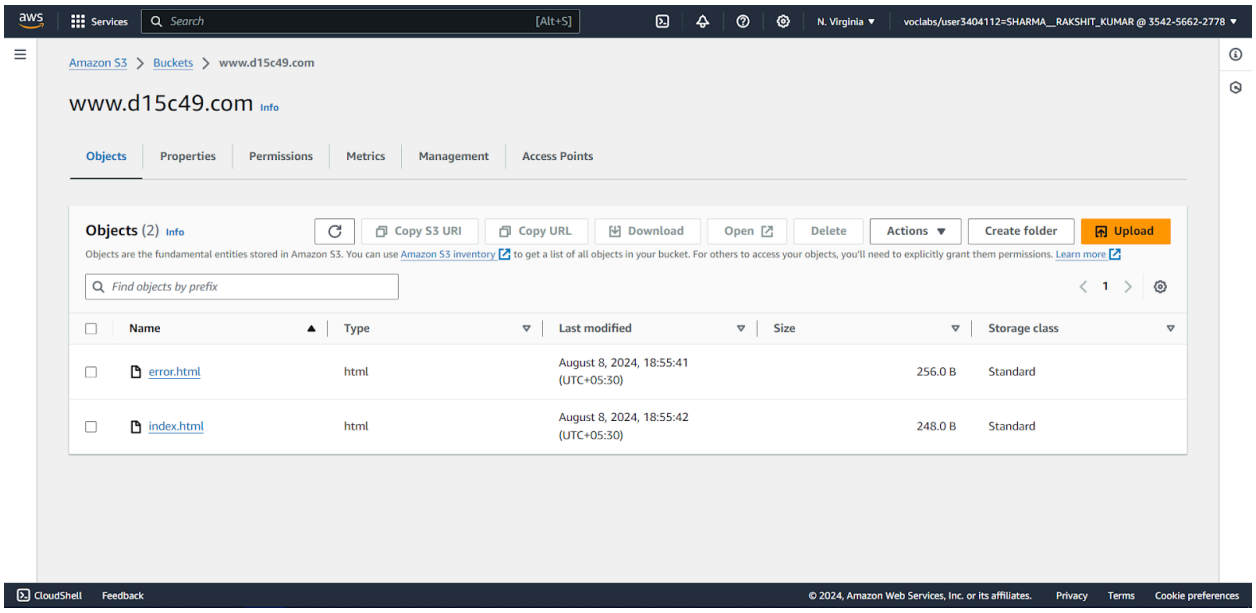
6. Open the bucket, now we will upload files in our bucket. Select the upload button



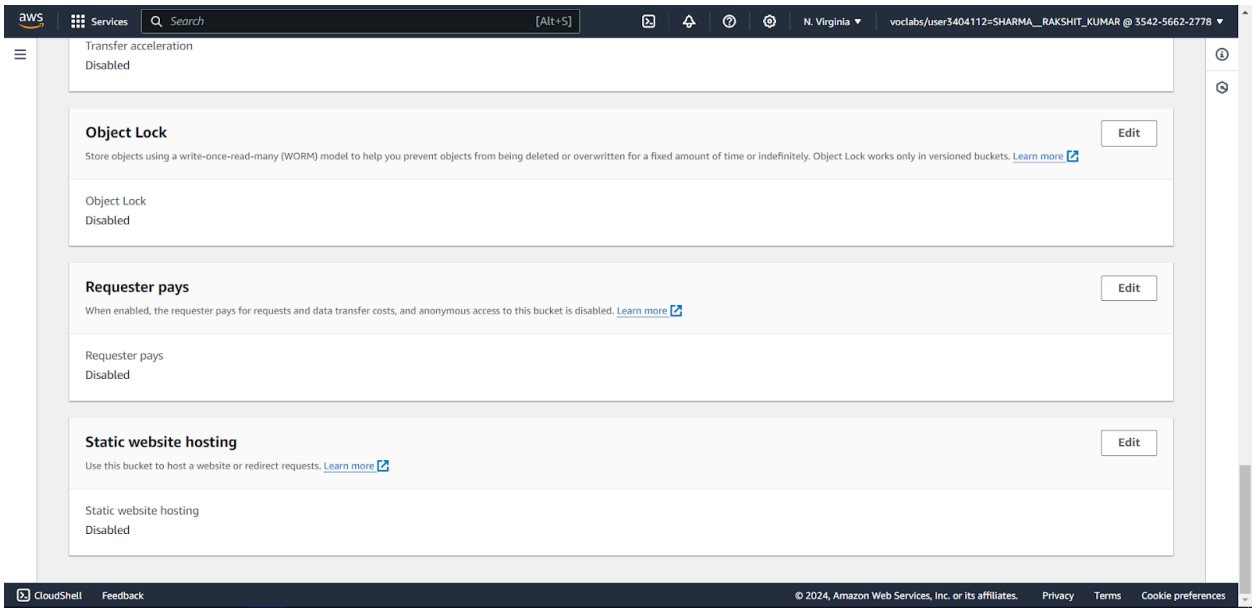
7. Select the files you want to upload in the bucket. Click on the upload button to upload files.



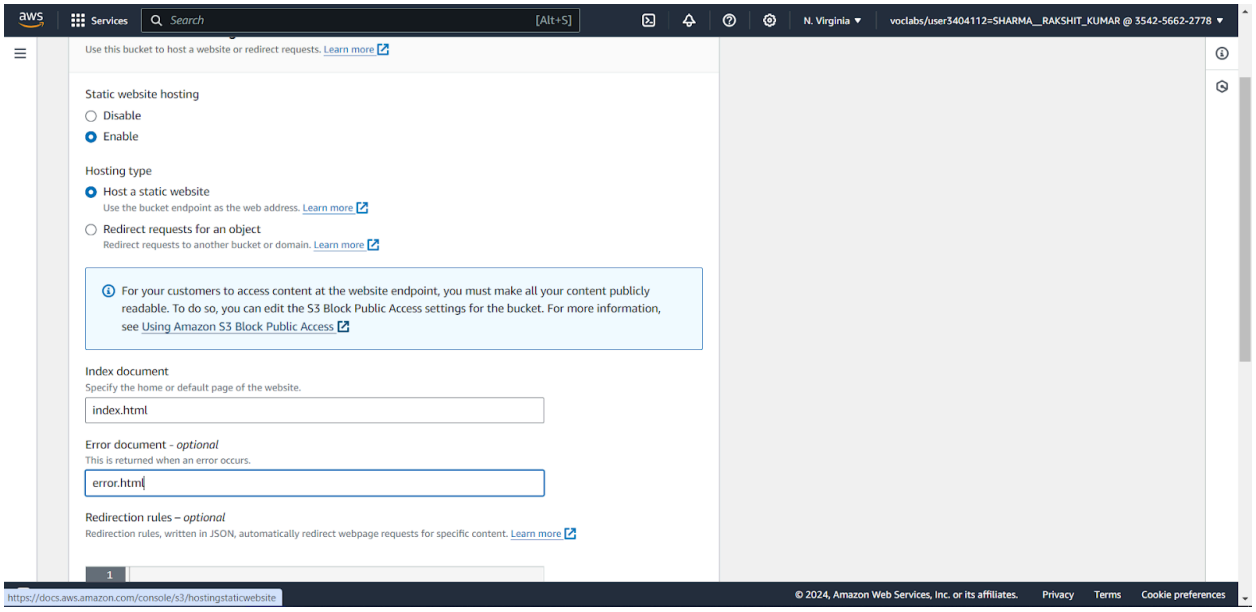
8. You can see all the files uploaded in the bucket. Now go to the properties section to enable the static hosting option for the bucket.



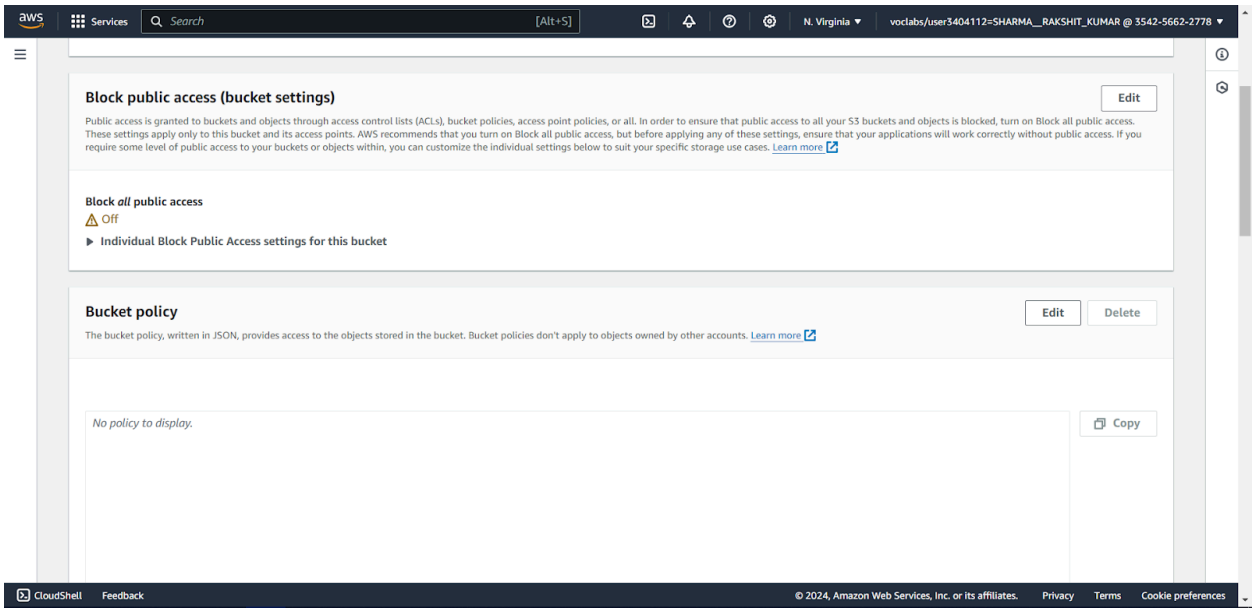
9. Edit the static website hosting setting.



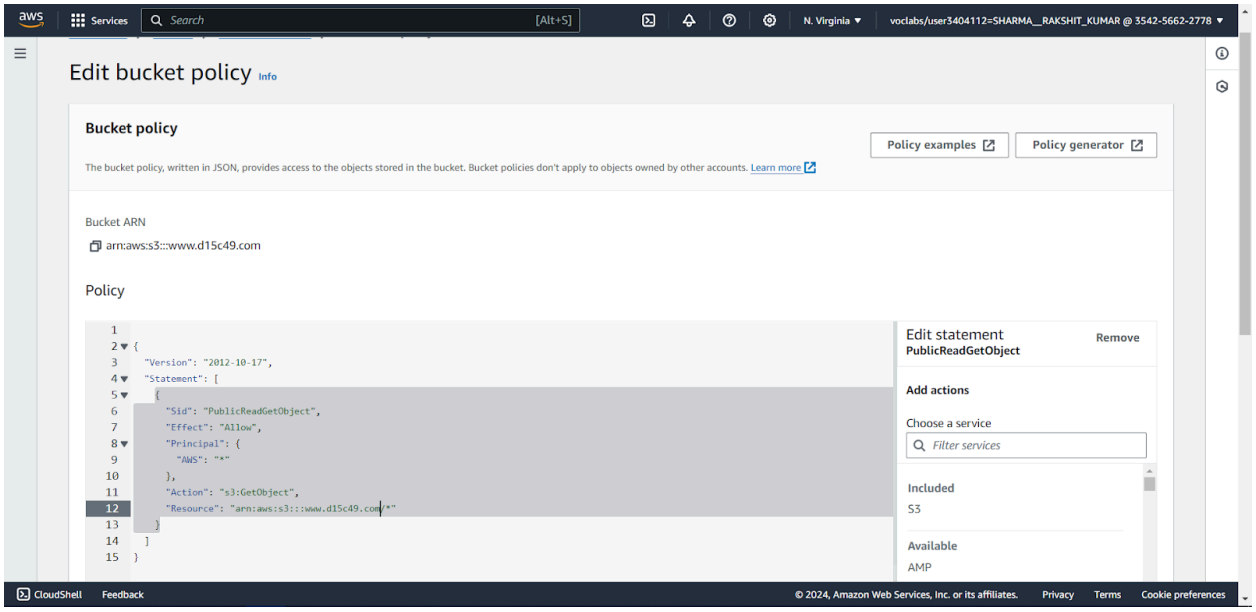
10. Enable the static website hosting, select the index files and error files(optional). These will be the files you have uploaded in the bucket



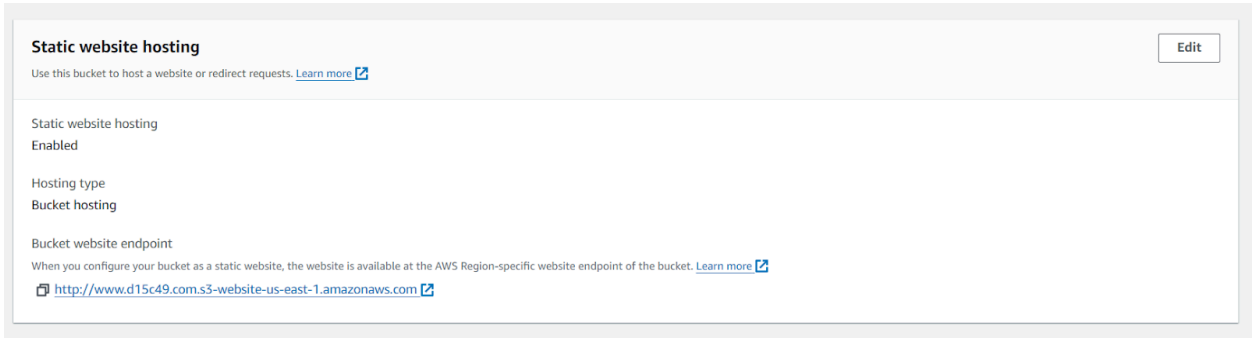
11. Now we need to change the bucket policy in permissions. Ensure that block public access is off. Edit the bucket policy.



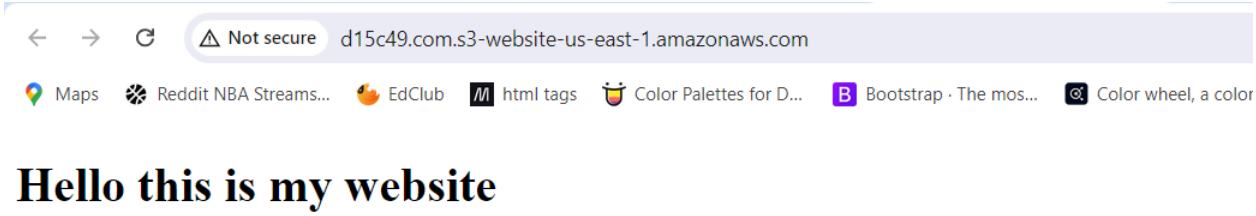
12. You can see examples of bucket policy. Use the appropriate bucket policy and enter your bucket name in it.



13. Once the bucket policy is added, you can see the link for website in static website hosting.

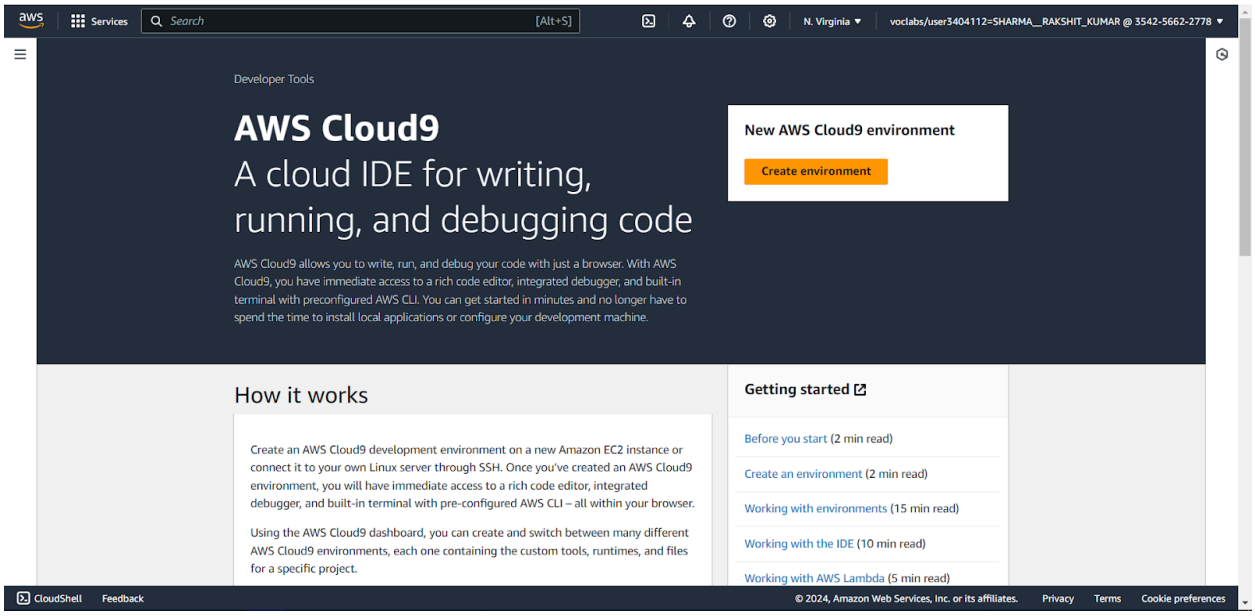


14. On clicking the link you will be redirected to the hosted website.

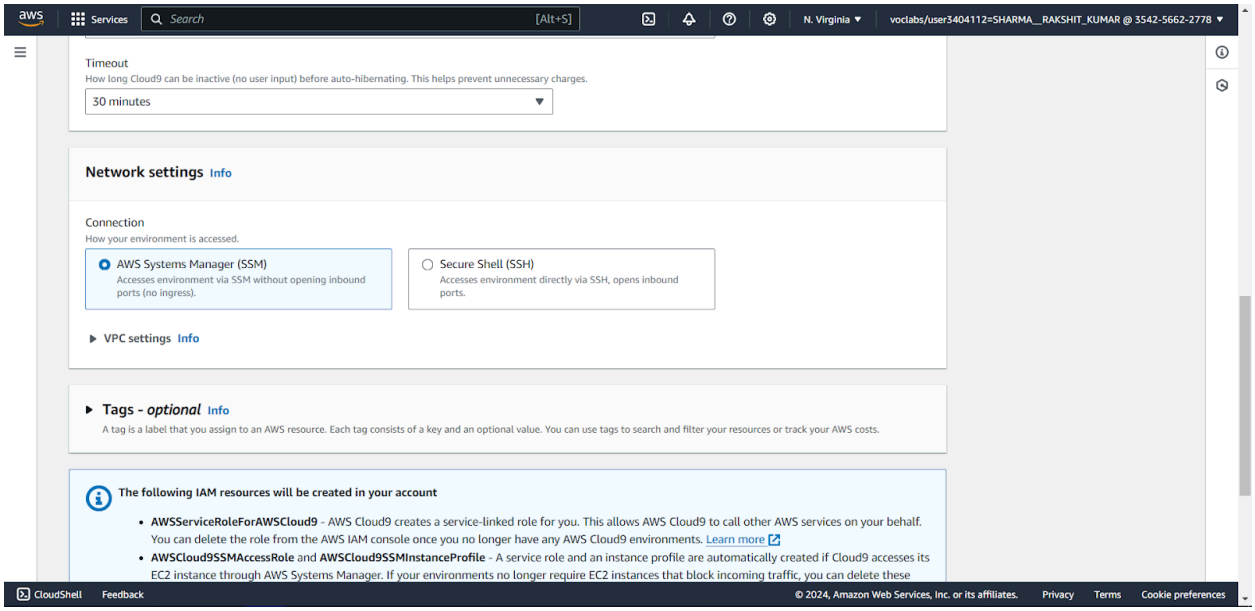


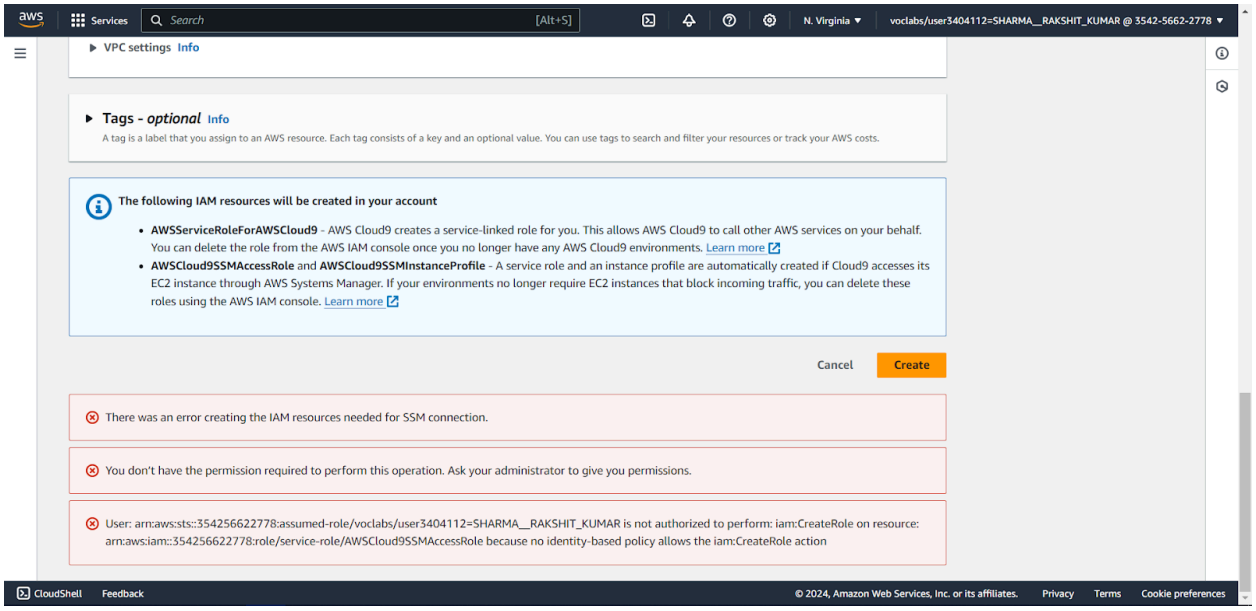
Aim: To understand the benefits of Cloud Infrastructure and Setup AWS Cloud9 IDE, Launch AWS Cloud9 IDE and Perform Collaboration Demonstration.

1. Open the AWS account and search for Cloud9. Click on create environment.

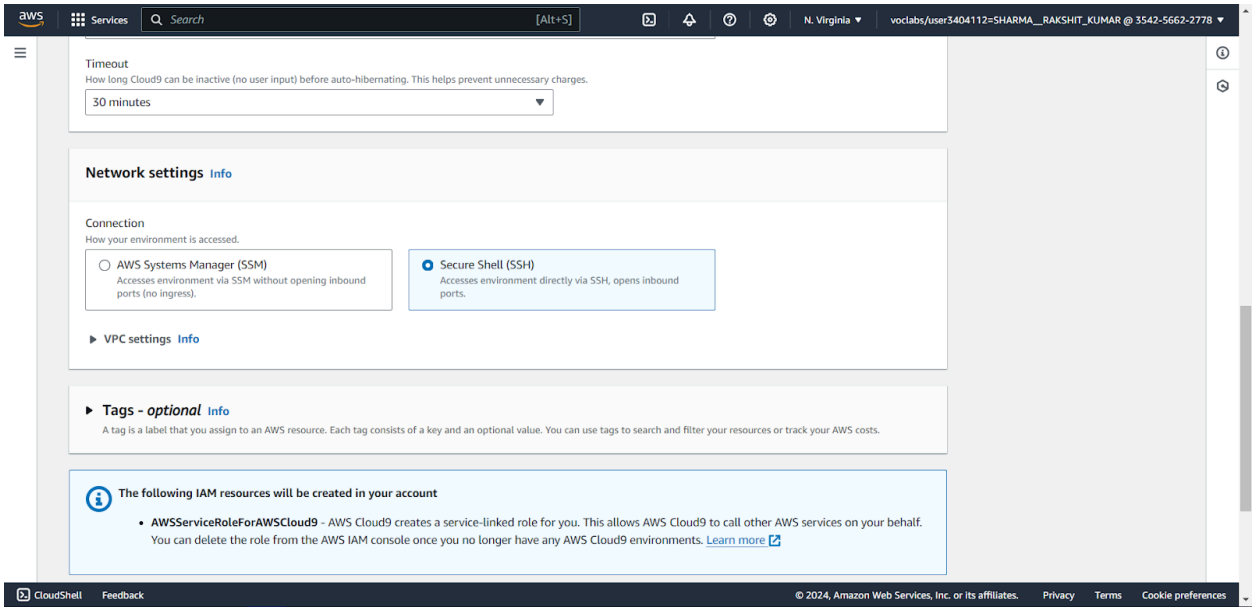


2. Enter the name and other required configuration for creating an environment. In network settings, using the AWS system manager gives an error while creating the environment. It states there was an error creating IAM resources needed for SSM.

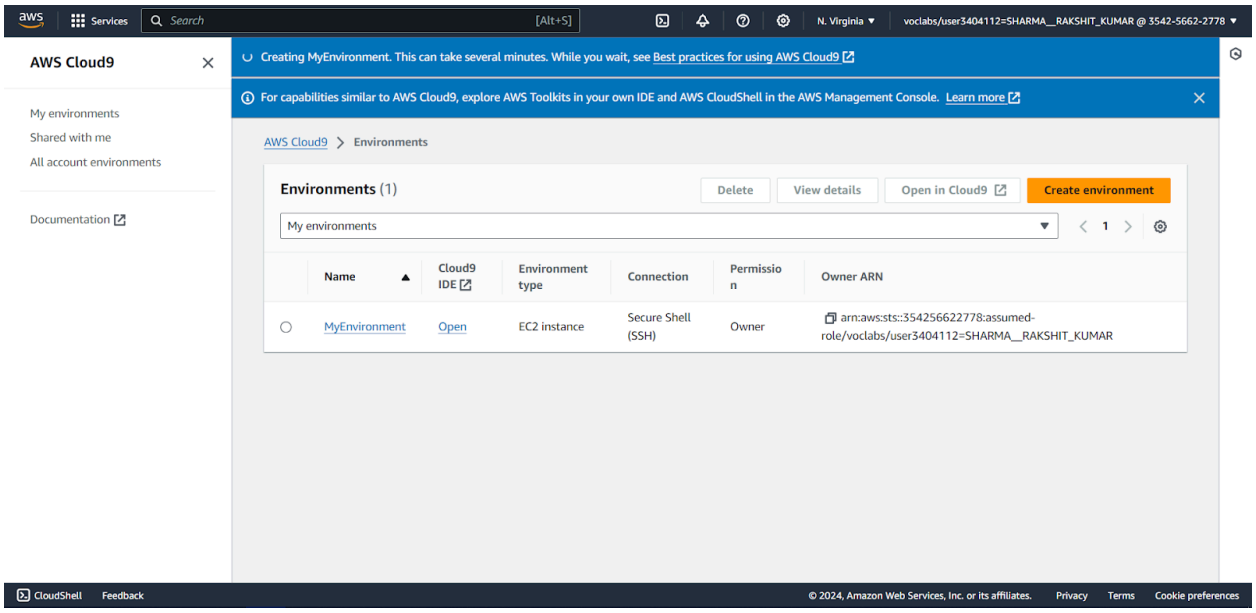




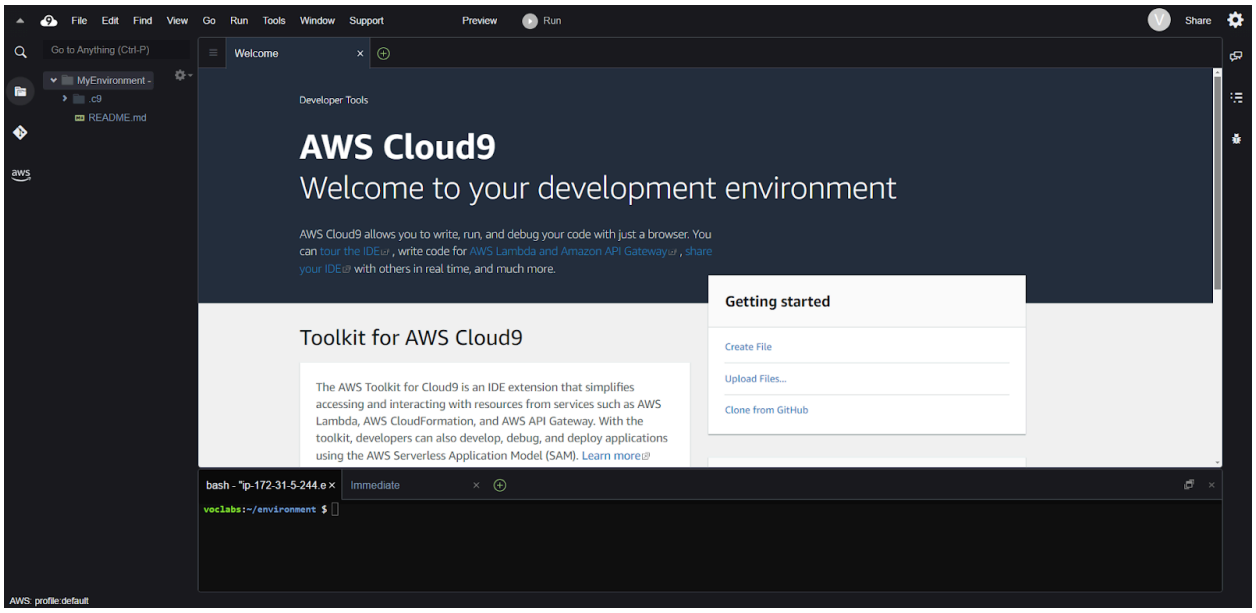
3. Use the Secure Shell option in Network settings.



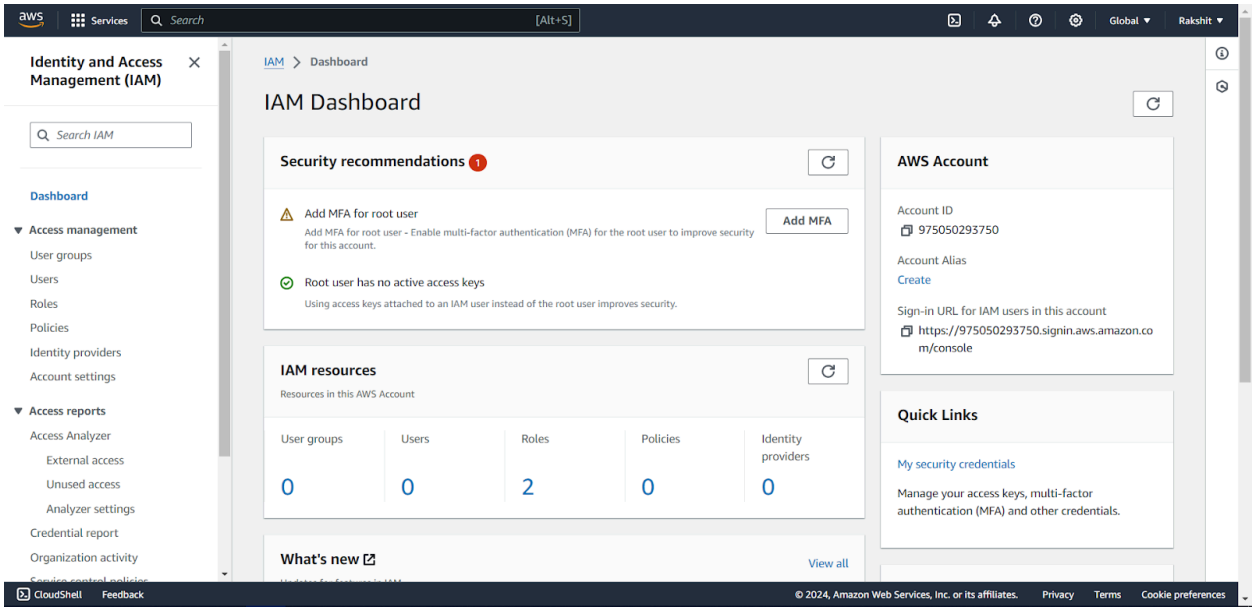
4. Once the configuration is complete, click on create environment to create a Cloud9 environment.



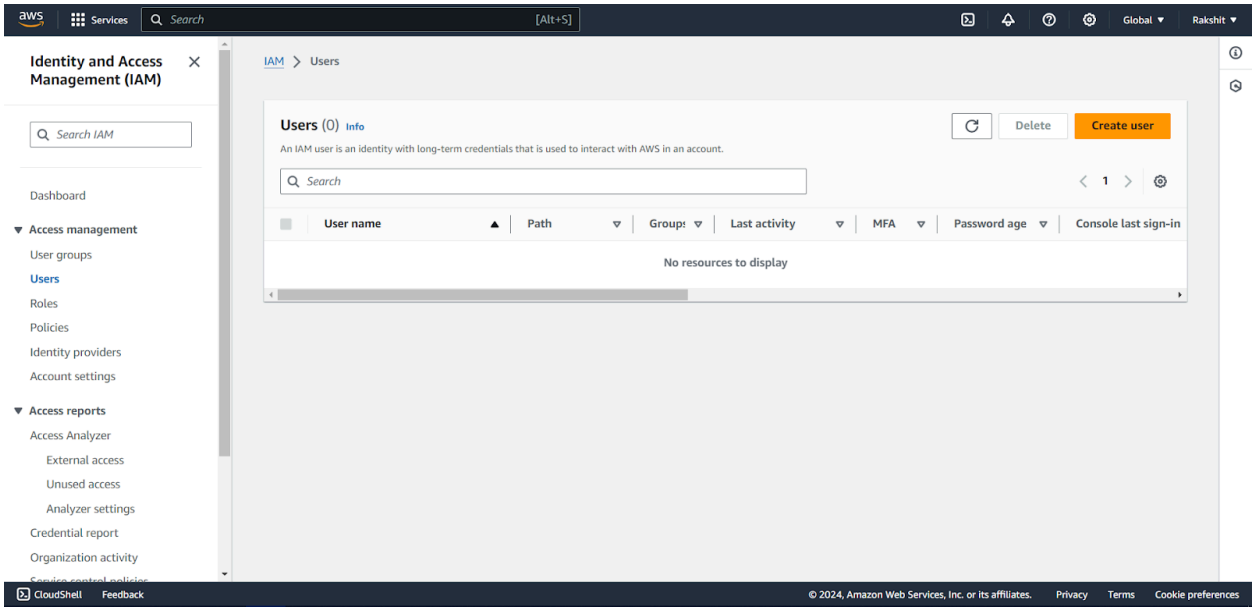
5. Click on the environment name to open the created Cloud9 Environment.



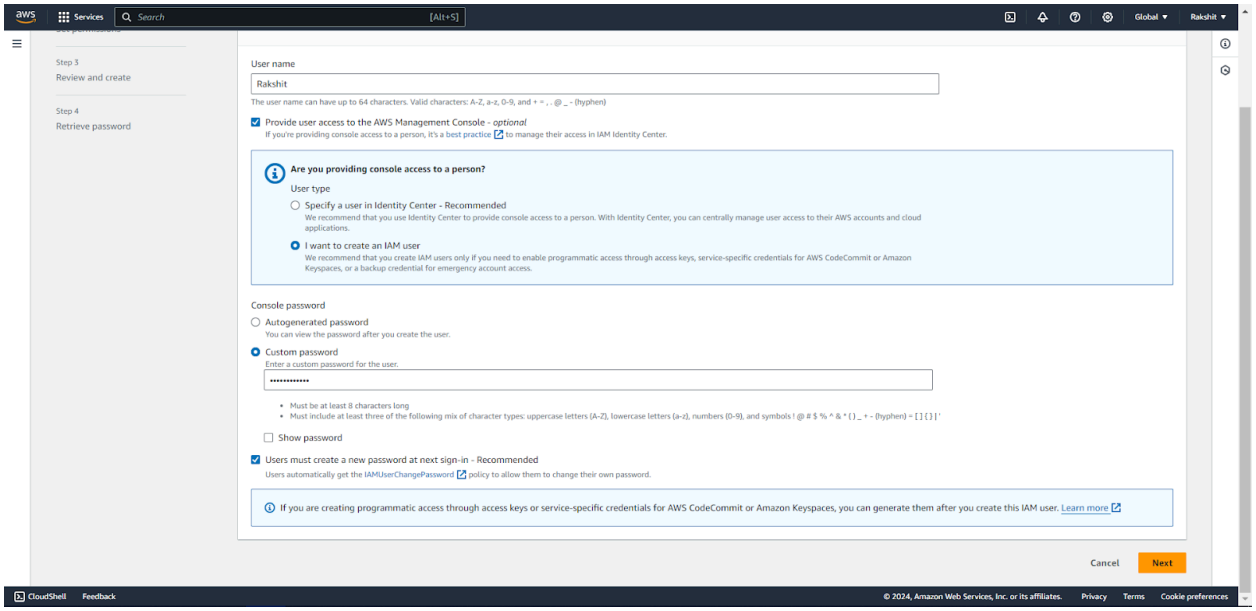
6. Open the aws account and search for IAM service.



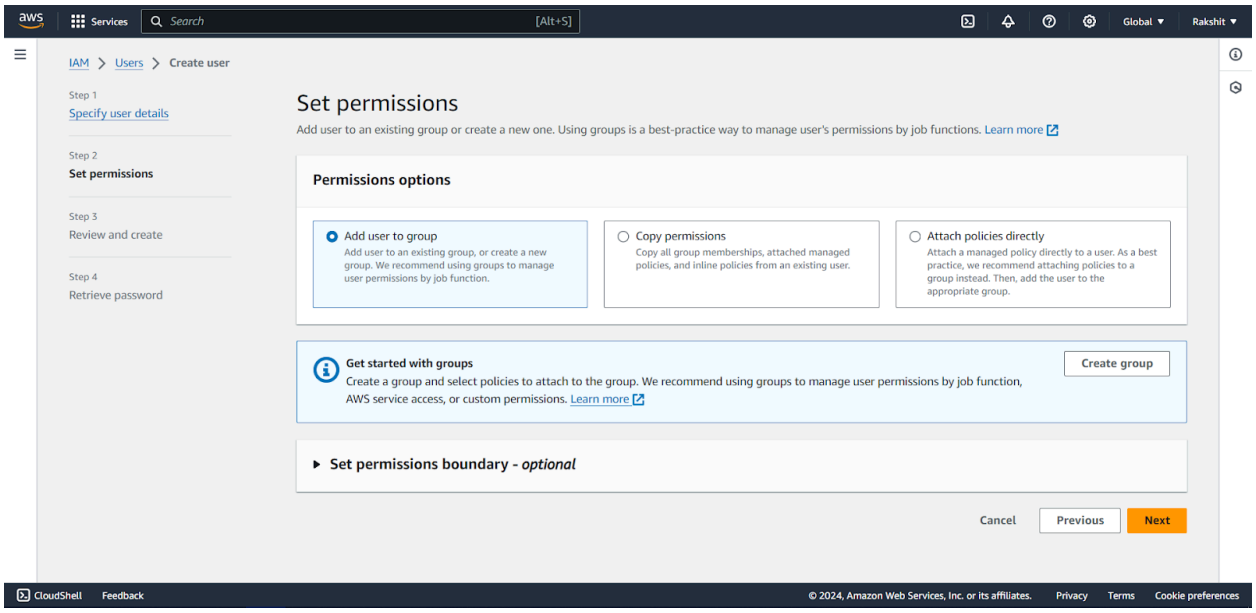
7. Go to the users tab. Click on create user to create a new user.



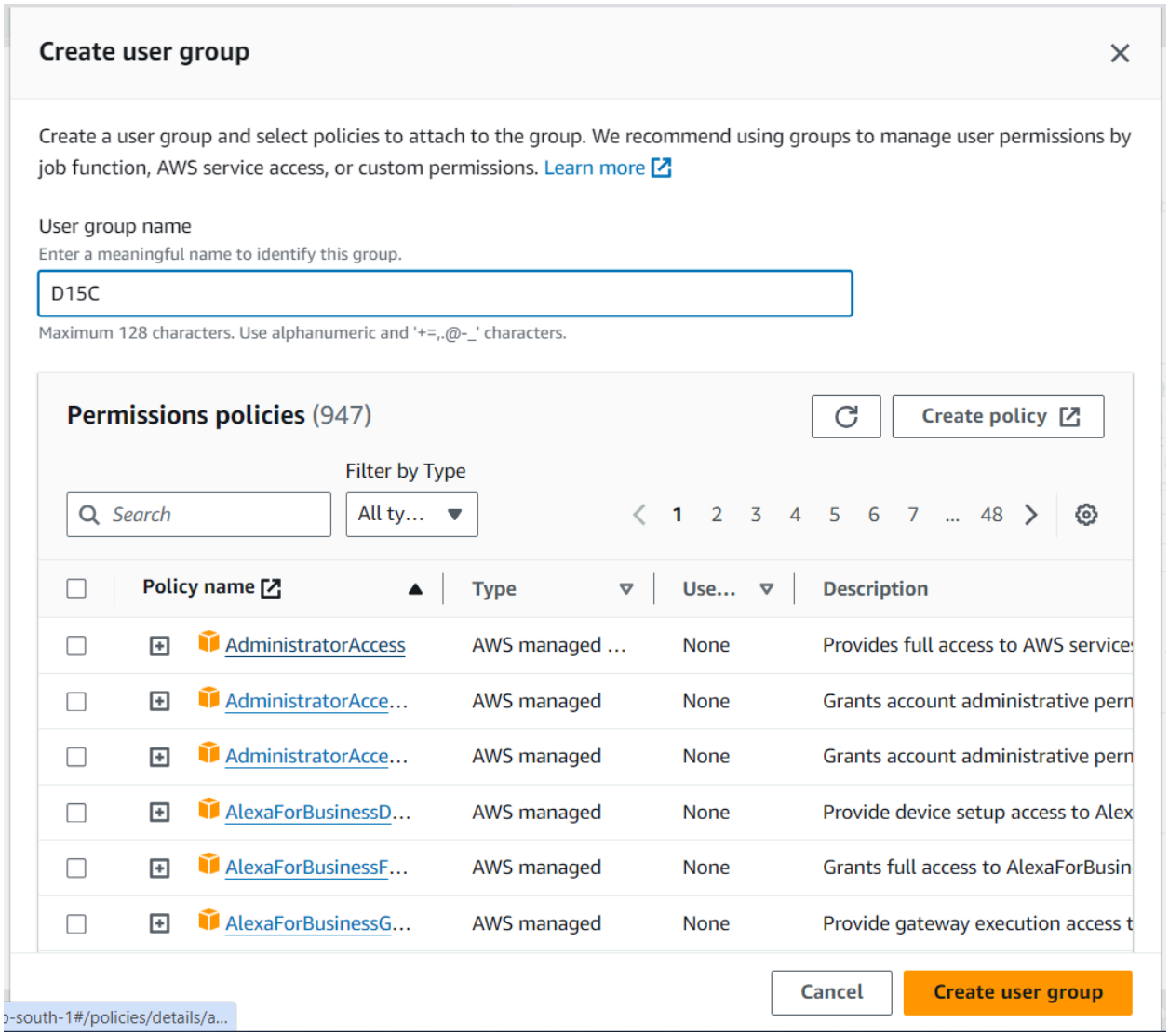
8. Give the user name, select the “provide user access” checkbox. Also select the option “I want to create an IAM user”. Otherwise we will have to enable the Identity center and specify a user there.



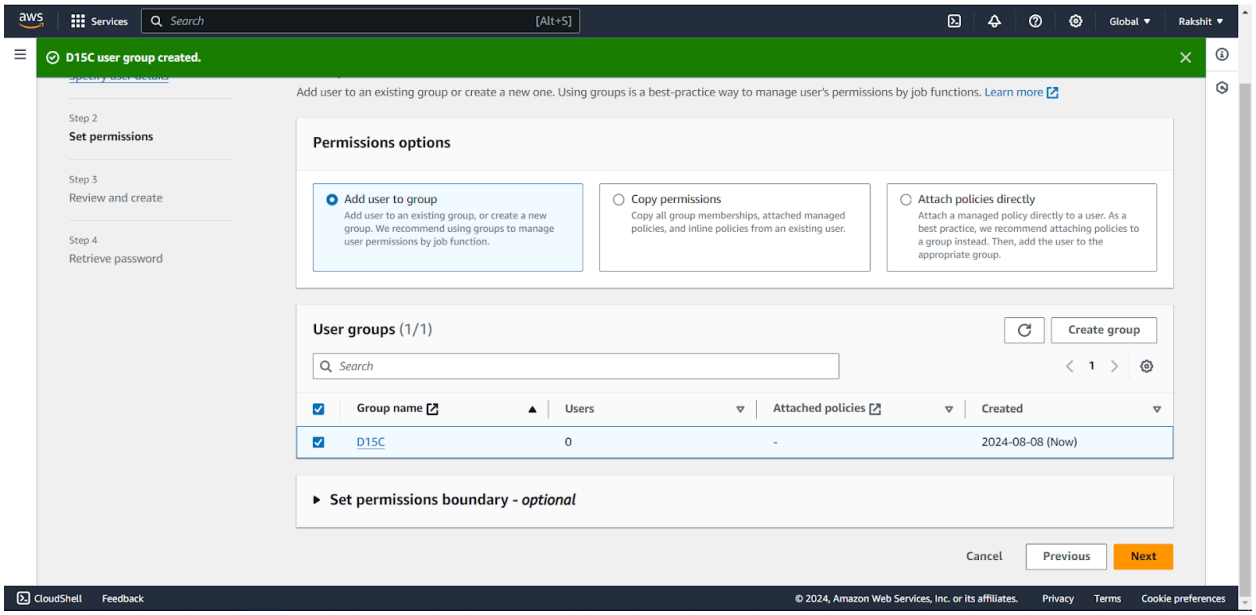
9. Next click on add user to group. If you do not have a existing group, select create group.



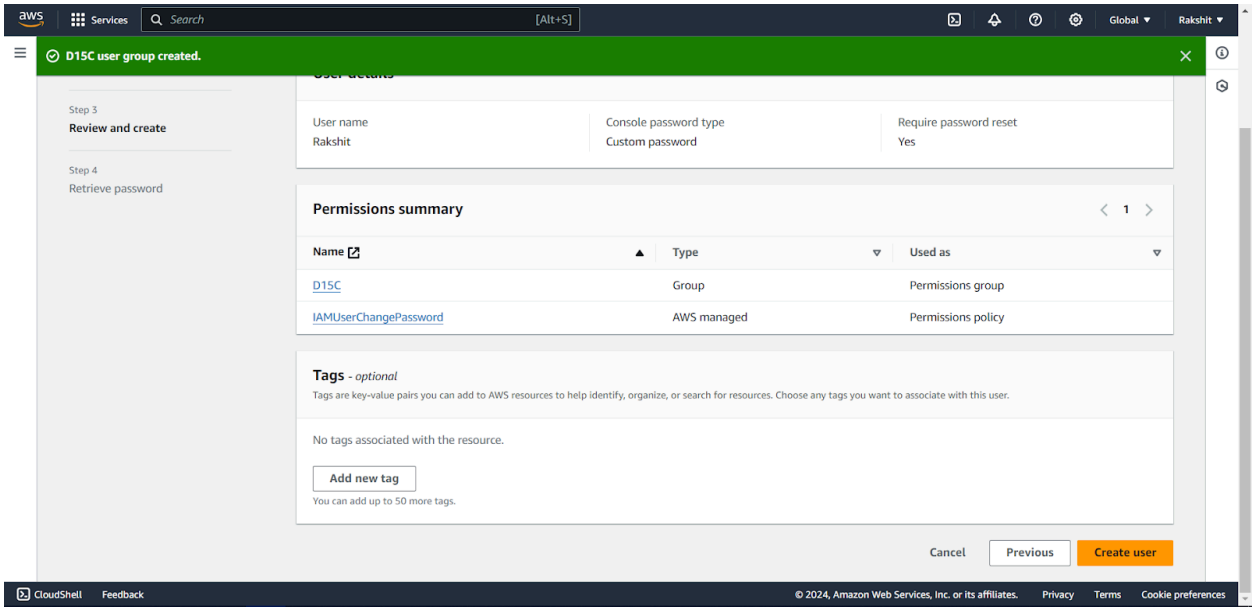
10. Give the group name and policies if required, and create a group.

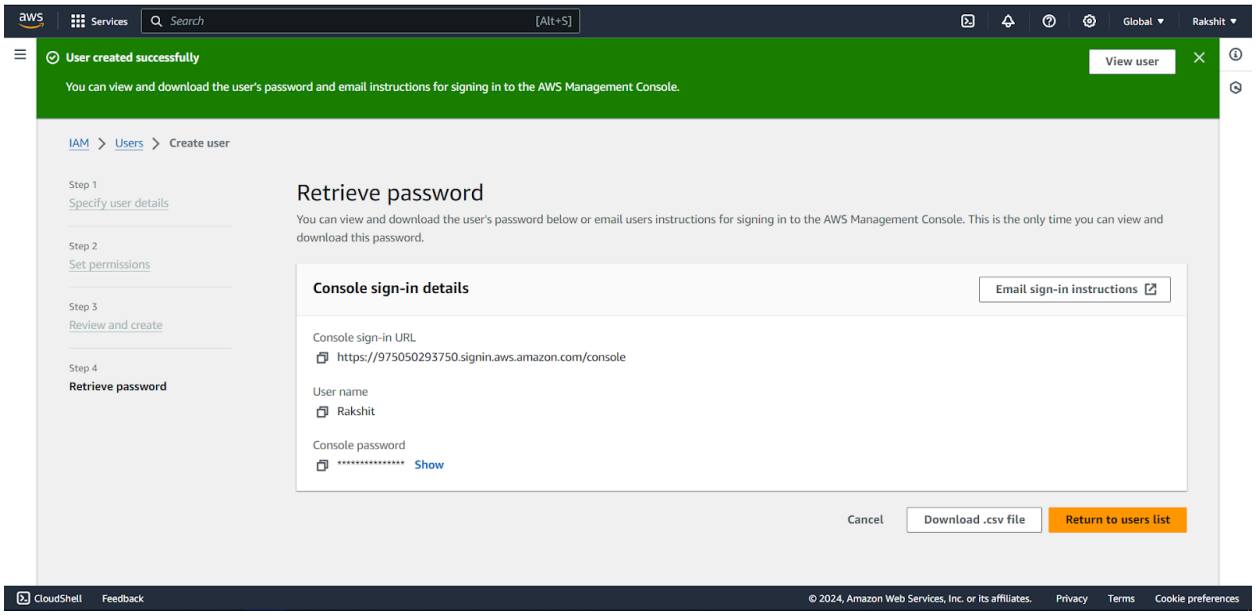


11. Once the group is created, select the group in which the user should be added.

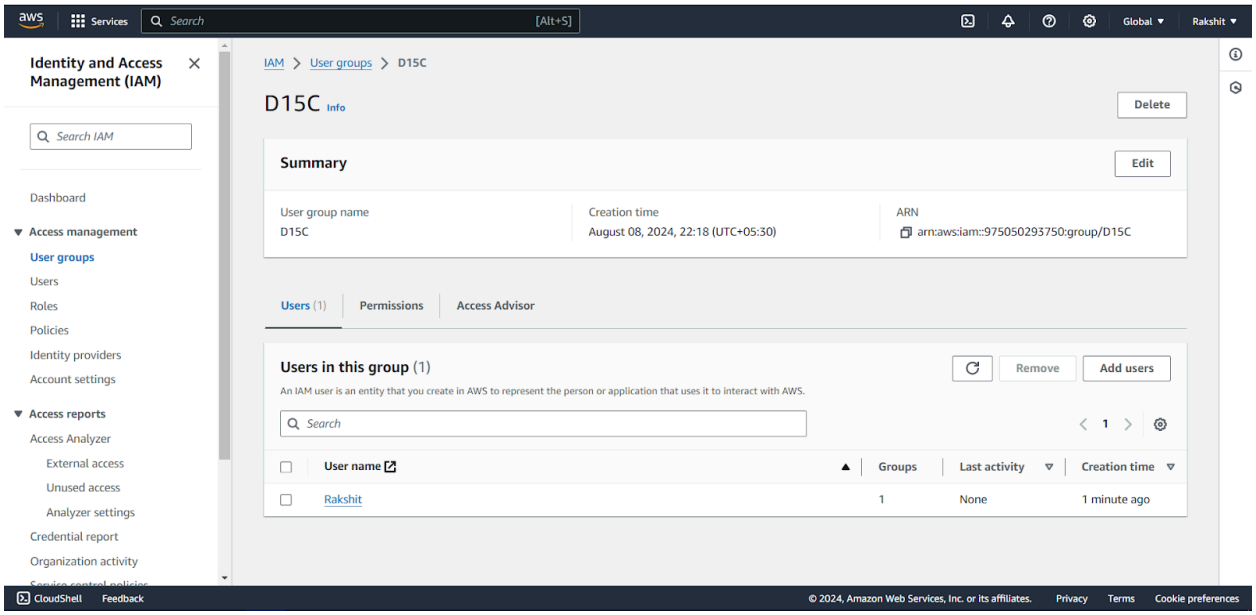


12. Recheck all the configuration and details of the user and click on create user.





13. After creation of the user, go to the user groups tab and select the group in which the user has been added. Navigate to the permissions tab. Click on add permissions and attach policy.



14. Search for the “AWSCloud9EnvironmentMember” policy and attach it.