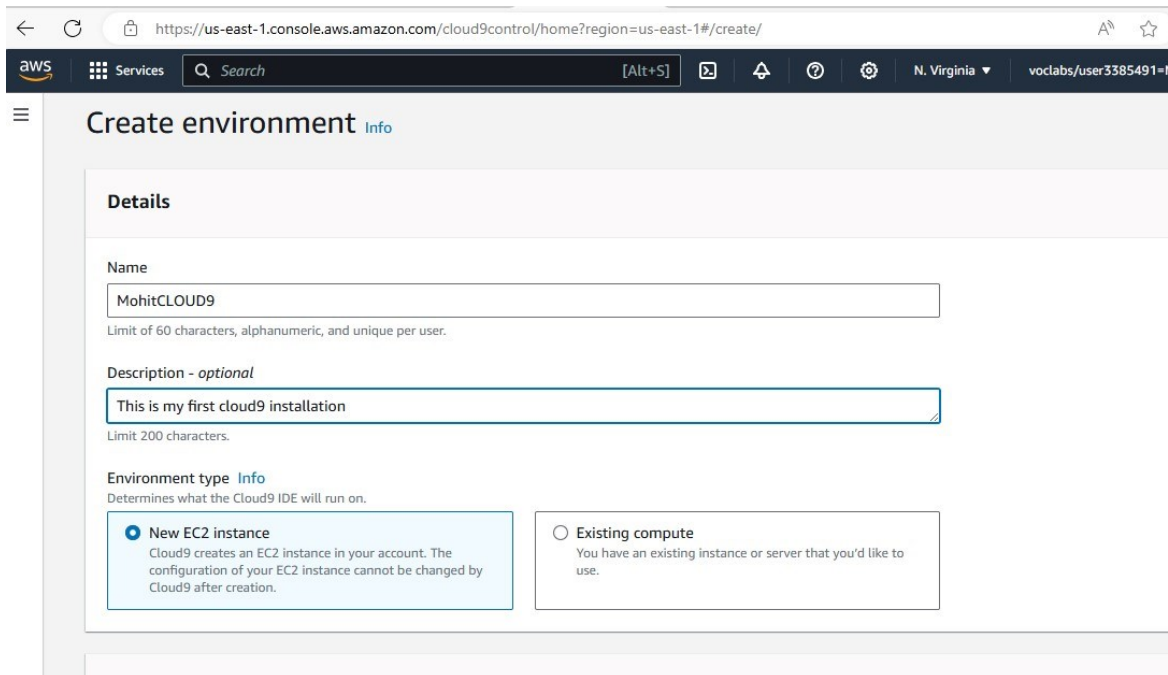# Exp 1b: Cloud9 Setup and Launch, Collaboration demonstration by creation of IAM groups and users.

1. Open your AWS account and search for Cloud9 service inside Developer tools. Create a new Cloud9 environment by filling in the required details. Make sure you use an EC2 instance to create your environment.

aws | Services | Q Search | [Alt+S] | N. Virginia ▼ | voclabs/user3385491=

New EC2 instance

Instance type Info
The memory and CPU of the EC2 instance that will be created for Cloud9 to run on.

○ **t2.micro (1 GiB RAM + 1 vCPU)**
Free-tier eligible. Ideal for educational users and exploration.

○ **t3.small (2 GiB RAM + 2 vCPU)**
Recommended for small web projects.

○ **m5.large (8 GiB RAM + 2 vCPU)**
Recommended for production and most general-purpose development.

○ **Additional instance types**
Explore additional instances to fit your need.

Platform Info
This will be installed on your EC2 instance. We recommend Amazon Linux 2023.

Amazon Linux 2023 ▼

Timeout
How long Cloud9 can be inactive (no user input) before auto-hibernating. This helps prevent unnecessary charges.

30 minutes ▼

2. We have successfully setup and launched our Cloud9 environment. Over here, we can build and develop programs as per our desire. We are also allowed to collaborate with multiple other users and access shared resources.

aws | Services | Q Search | [Alt+S] | Global ▼ | mohitk

IAM > Users > Create user

Step 1
Specify user details

Step 2
Set permissions

Step 3
Review and create

Specify user details

User details

User name

sahil motiramani

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)

☐ Provide user access to the AWS Management Console - *optional*
If you're providing console access to a person, it's a best practice ☐ to manage their access in IAM Identity Center.

ⓘ If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. Learn more ☐

Cancel | Next
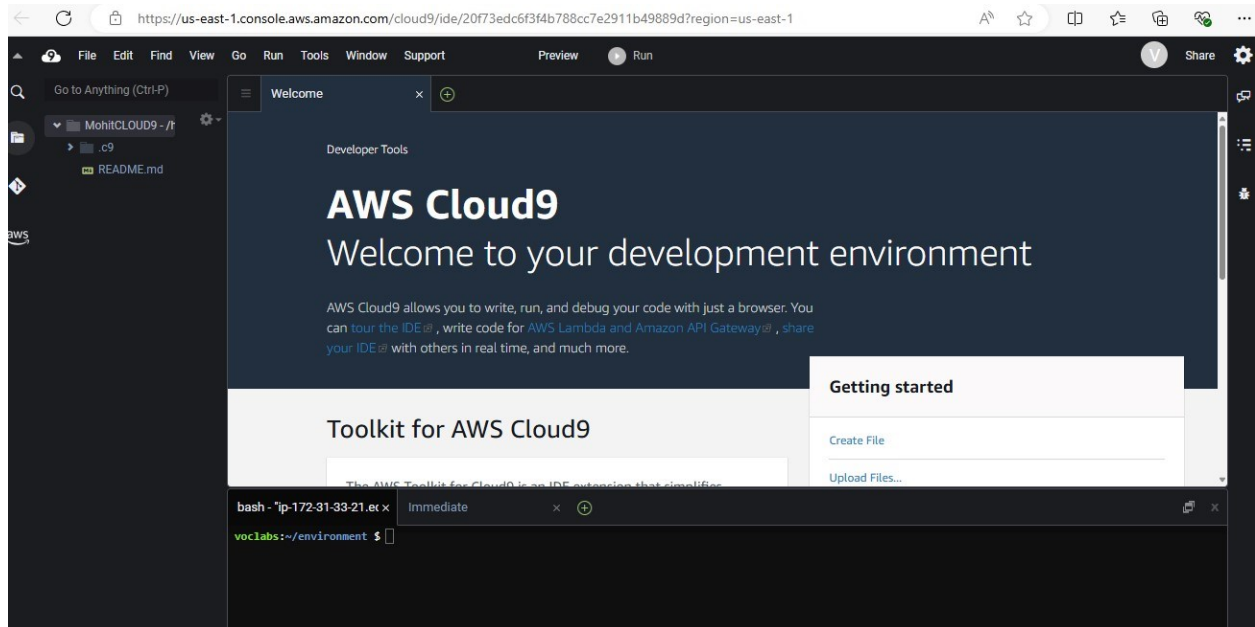
3. Moving on, we are supposed to create a new user. Give a suitable name to the user and decide the password for the same.

Center, you can centrally manage user access to their AWS accounts and cloud applications.

○ **I want to create an IAM user**
We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.

Console password

○ **Autogenerated password**
You can view the password after you create the user.

● **Custom password**
Enter a custom password for the user.

```
••••••••••
```

☐ Show password

☑ **Users must create a new password at next sign-in - Recommended**
Users automatically get the IAMUserChangePassword [↗] policy to allow them to change their own password.

ⓘ If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. Learn more [↗]

Cancel   **Next**

4. Similarly, create a new group and provide a suitable name for the same. Include the IAM users in this group together for our convenience i.e to provide similar kinds of permissions to the entire group rather than an individual user.

5. The user has successfully been created i.e There is a custom made username and a password for the IAM user.

6. Go back to the cloud9 environment. Click on share this environment option so as to allow other collaborators to access you environment. Include your newly made IAM user in this environment and enable Read/Write permissions for it
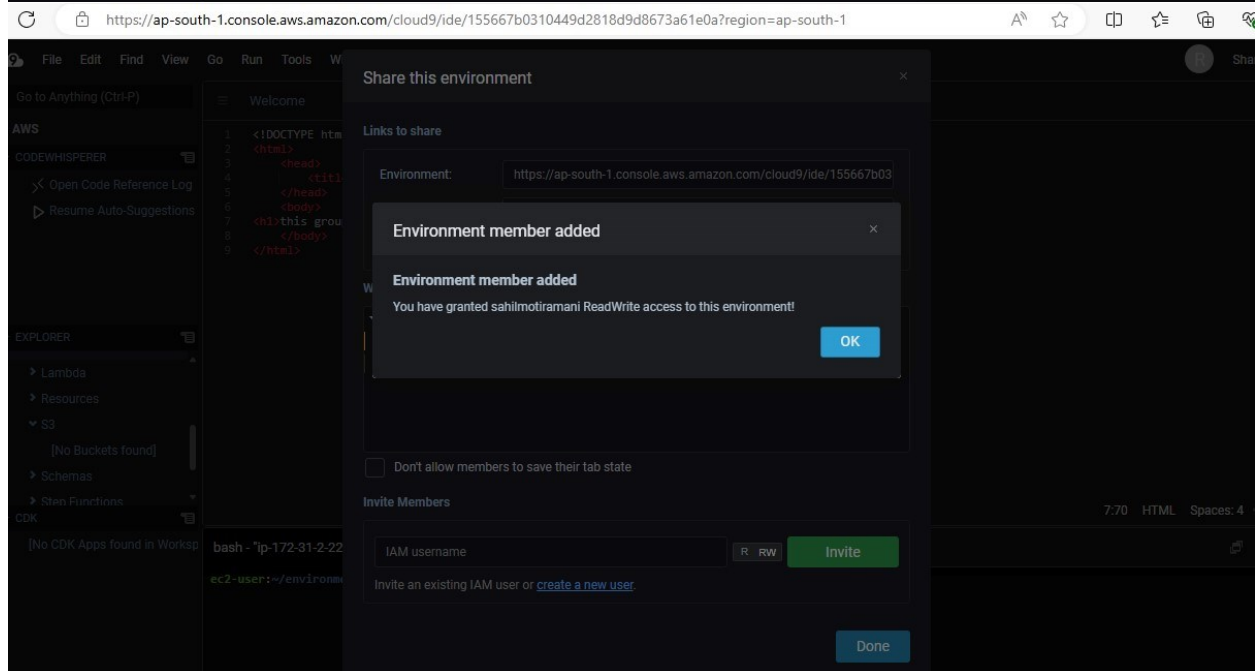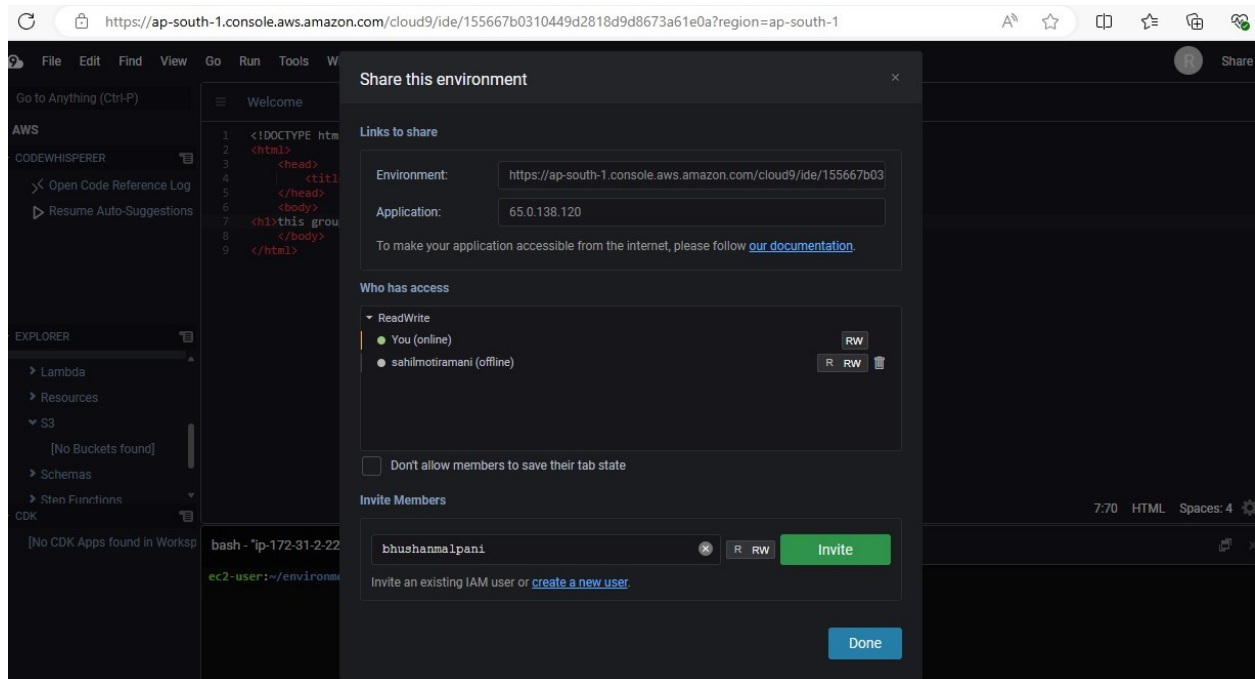
7. Further, we are supposed to login from another browser using the credentials of the IAM user, so as to access the shared cloud9 environment with us.
These steps could not be completed because Cloud9 services have been disrupted and there is no access to the IAM user from the remote login