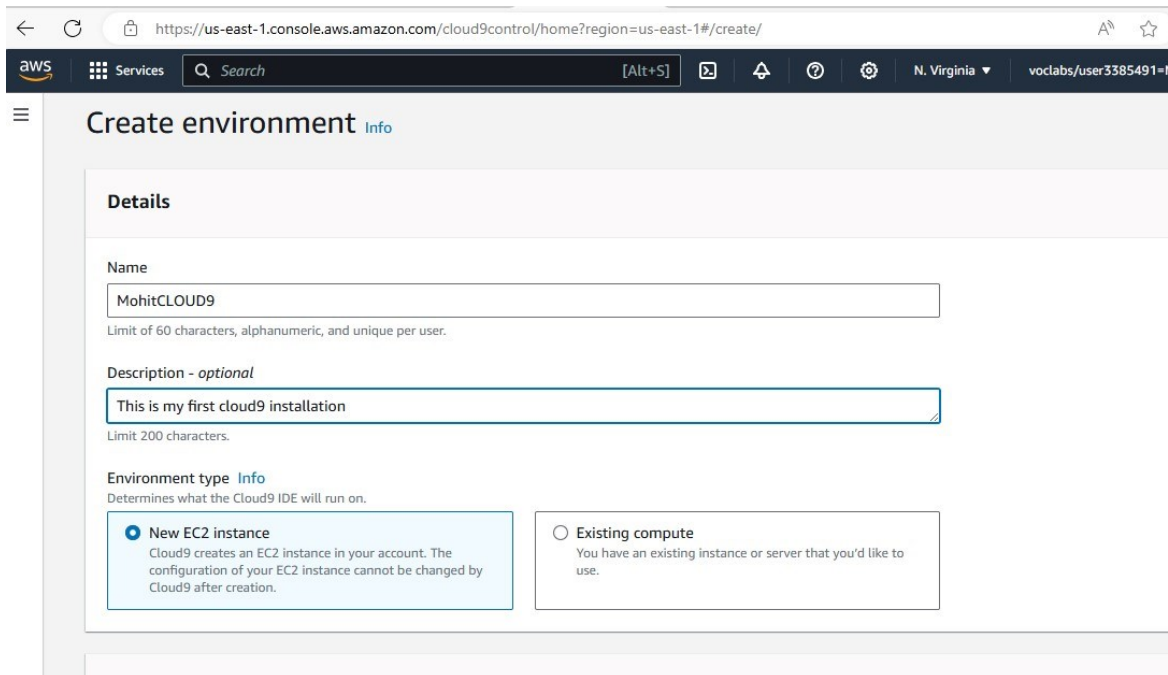


Exp 1b: Cloud9 Setup and Launch, Collaboration demonstration by creation of IAM groups and users.

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.



The screenshot shows the AWS Cloud9 'Create environment' page in a web browser. The browser's address bar shows the URL: `https://us-east-1.console.aws.amazon.com/cloud9control/home?region=us-east-1#/create/`. The AWS navigation bar at the top includes the 'Services' menu, a search bar, and the current region 'N. Virginia' with the user ID 'voclabs/user3385491'. The main heading is 'Create environment' with an 'Info' link. Below this is a 'Details' section with three main input areas: 1. 'Name': A text box containing 'MohitCLOUD9' with a note below it stating 'Limit of 60 characters, alphanumeric, and unique per user.' 2. 'Description - optional': A text box containing 'This is my first cloud9 installation' with a note below it stating 'Limit 200 characters.' 3. 'Environment type': A section with the subtext 'Determines what the Cloud9 IDE will run on.' It contains two radio button options: 'New EC2 instance' (which is selected) and 'Existing compute'. The 'New EC2 instance' option has a description: 'Cloud9 creates an EC2 instance in your account. The configuration of your EC2 instance cannot be changed by Cloud9 after creation.' The 'Existing compute' option has a description: 'You have an existing instance or server that you'd like to use.'

← ↻ 🔒 https://us-east-1.console.aws.amazon.com/cloud9control/home?region=us-east-1#/create/ ⓘ ⭐

aws Services 🔍 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.

← ↻ 🔒 https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/create ⓘ ⭐ 📧 🔔 ⓘ ⚙️ Global ▼ mohitk

aws Services 🔍 Search [Alt+S]

☰ 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

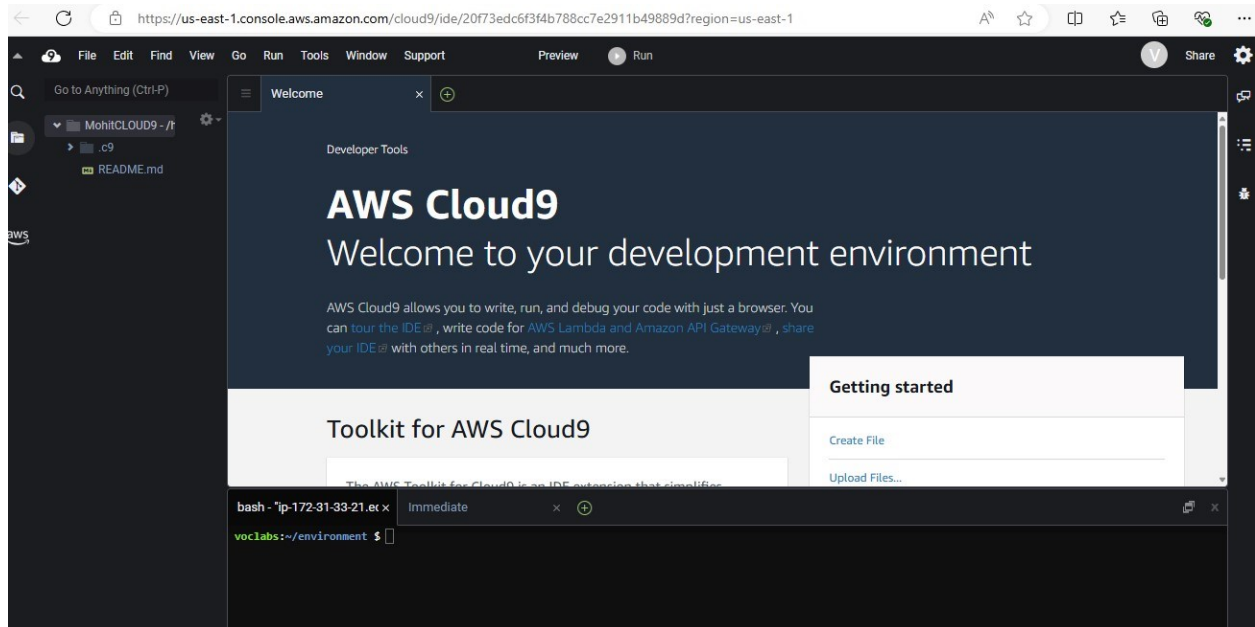
sahil motiramani

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.

Info 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.

MSBCLOUD9 user group created.

[Review and create](#)

Step 4
Retrieve password

☒ Add user to group
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

☐ Copy permissions
Copy all group memberships, attached managed policies, and inline policies from an existing user.

☐ Attach policies directly
Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

User groups (1/1)

<input checked="" type="checkbox"/>	Group name	Users	Attached policies	Created
<input checked="" type="checkbox"/>	MSBCLOUD9	0	-	2024-07-29 (Now)

► Set permissions boundary - optional

Cancel Previous **Next**

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

https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/create

[Search](#) [Alt+S]

MSBCLOUD9 user group created.

[Permissions](#)

User details

User name sahilmotiramani	Console password type Custom password	Require password reset Yes
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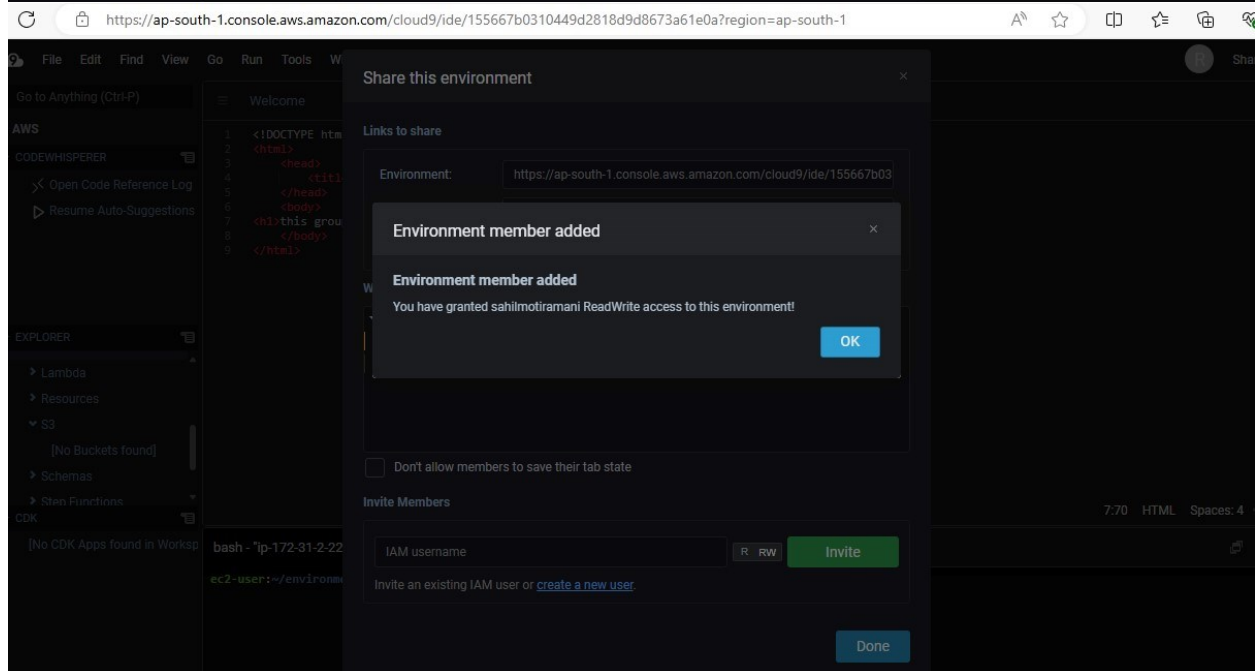
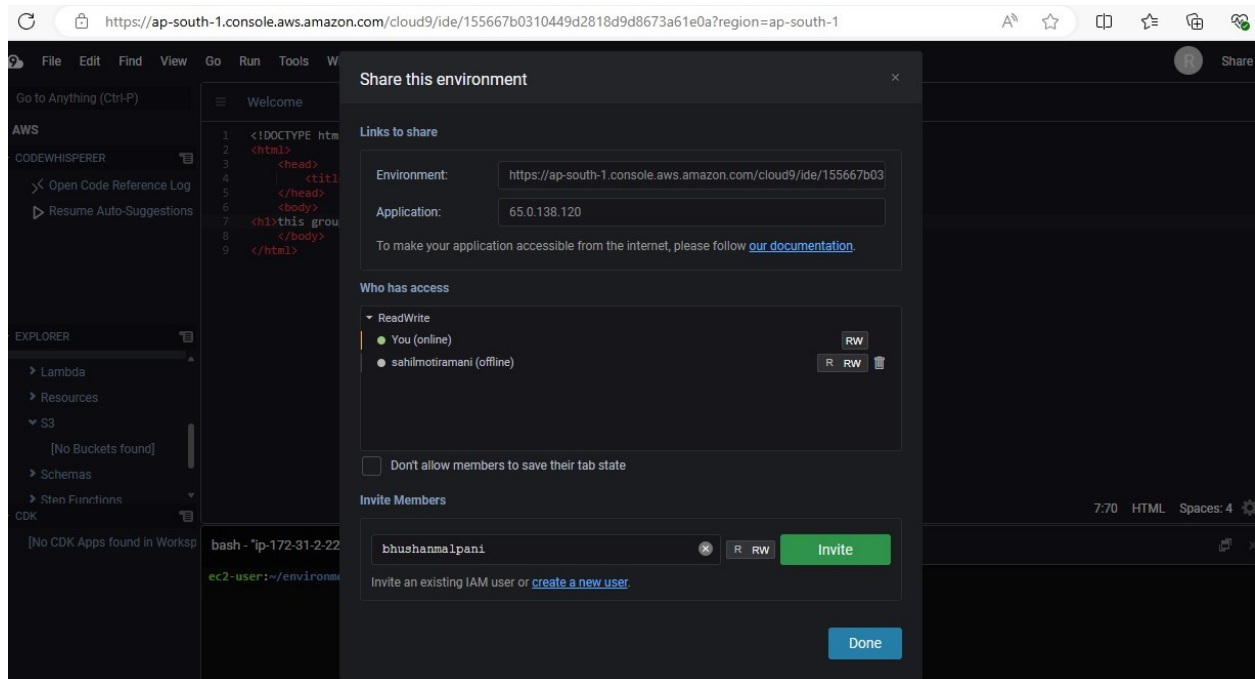
Permissions summary

Name	Type	Used as
IAMUserChangePassword	AWS managed	Permissions policy
MSBCLOUD9	Group	Permissions group

Tags - optional
Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

No tags associated with the resource.

- 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



- 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