Experiment 1B

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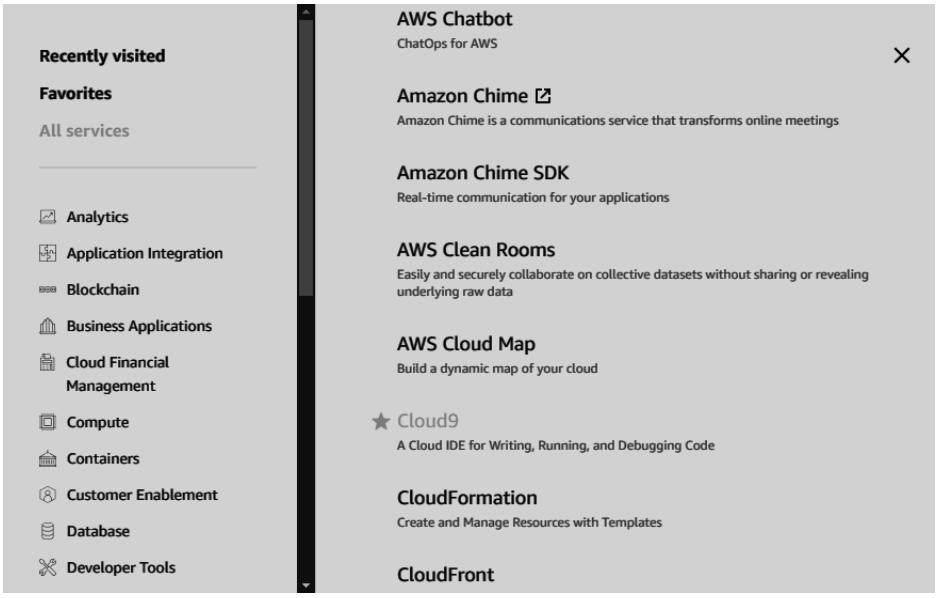
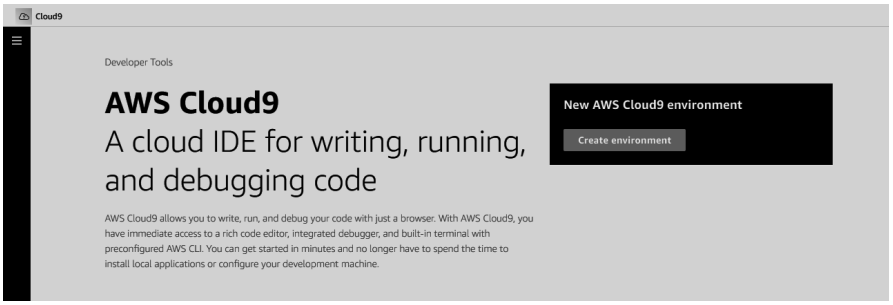
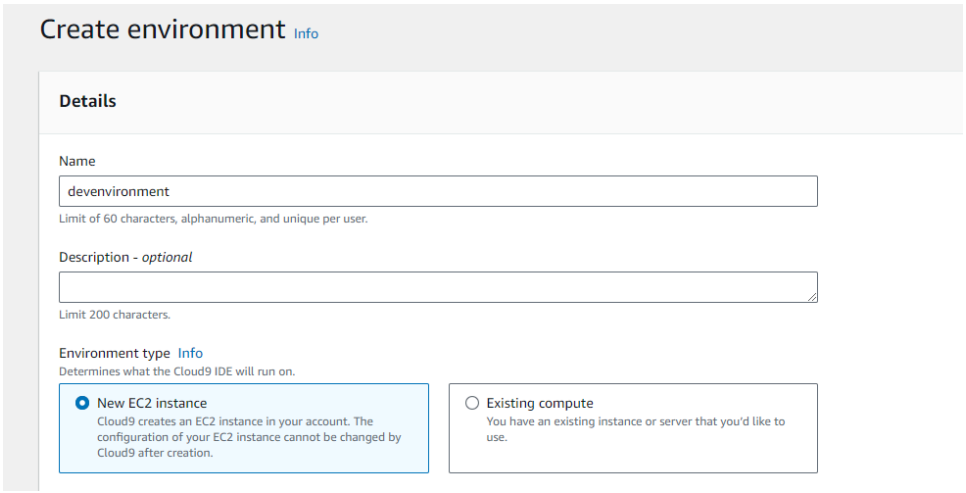
Aim: To understand the benefits of Cloud Infrastructure and Setup AWS Cloud9 IDE, Launch AWS Cloud9 IDE and Perform Collaboration Demonstration.

Steps:

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.







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

Network settings Info

Connection

How your environment is accessed.

- ( ) AWS Systems Manager (SSM) — Accesses environment via SSM without opening inbound ports (no ingress).
- (●) Secure Shell (SSH) — Accesses environment directly via SSH, opens inbound ports.

▶ VPC settings Info

Creating devenvironment. This can take several minutes. While you wait, see Best practices for using AWS Cloud9

For capabilities similar to AWS Cloud9, explore AWS Toolkits in your own IDE and AWS CloudShell in the AWS Management Console. Learn more

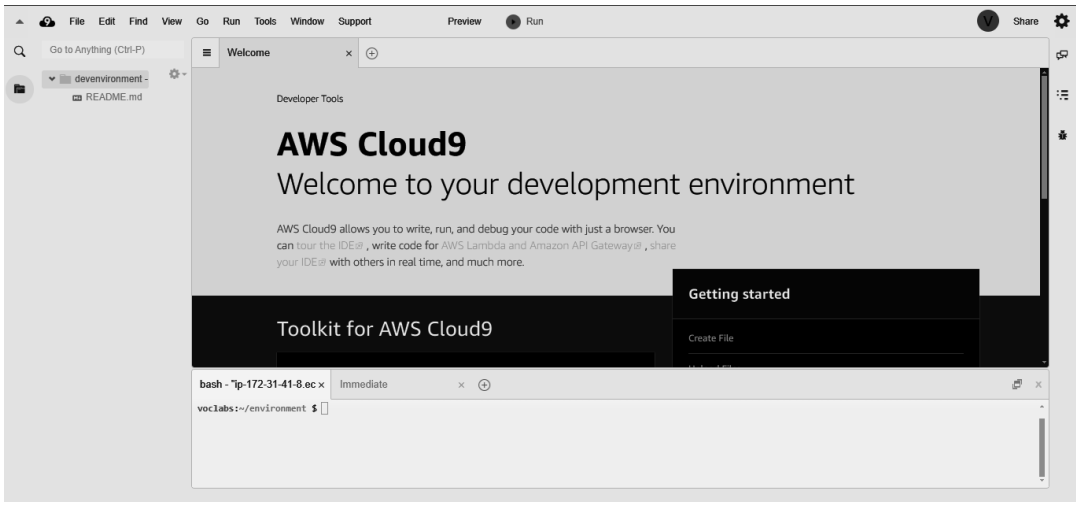
AWS Cloud9 > Environments

Environments (1) Delete | View details | Open in Cloud9 | Create environment

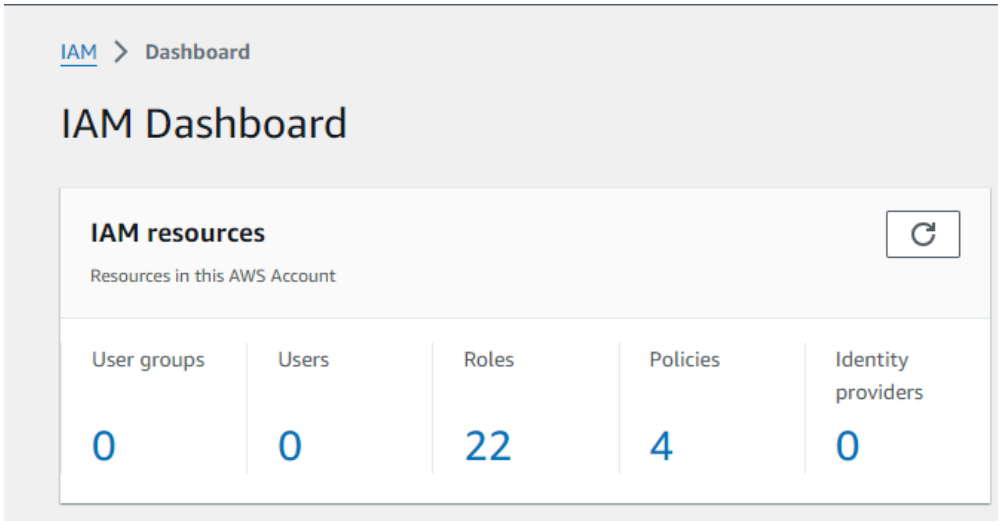
My environments — 1

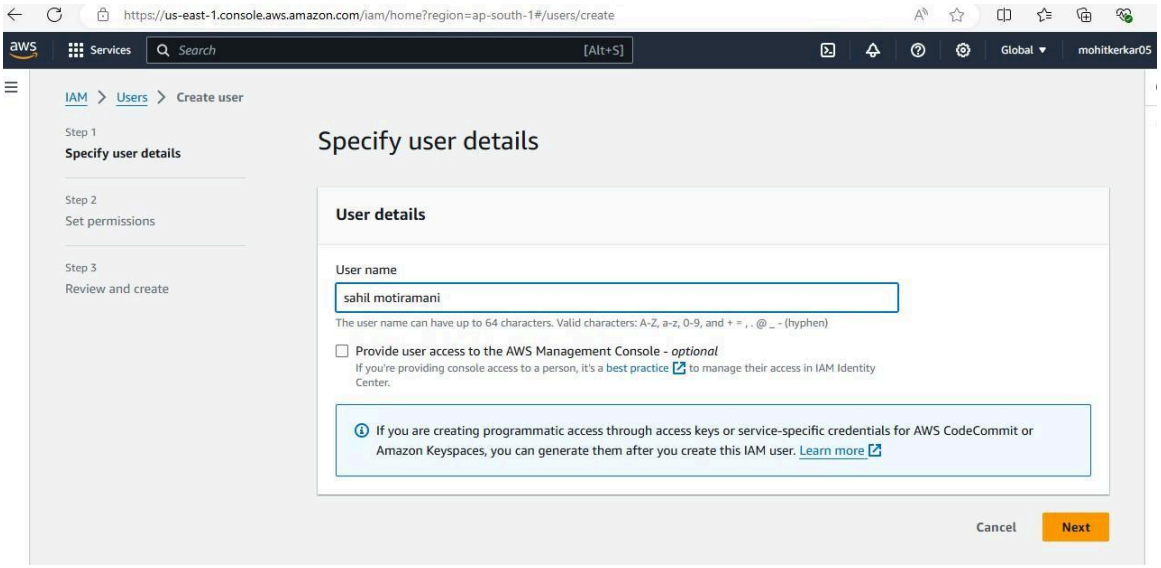
	Name	Cloud9 IDE	Environment type	Connection	Permission	Owner ARN
( )	devenvironment	Open	EC2 instance	Secure Shell (SSH)	Owner	arn:aws:sts::249883209473:assumed-role/voclabs/user3400210=GAONKAR_DEV_PRA

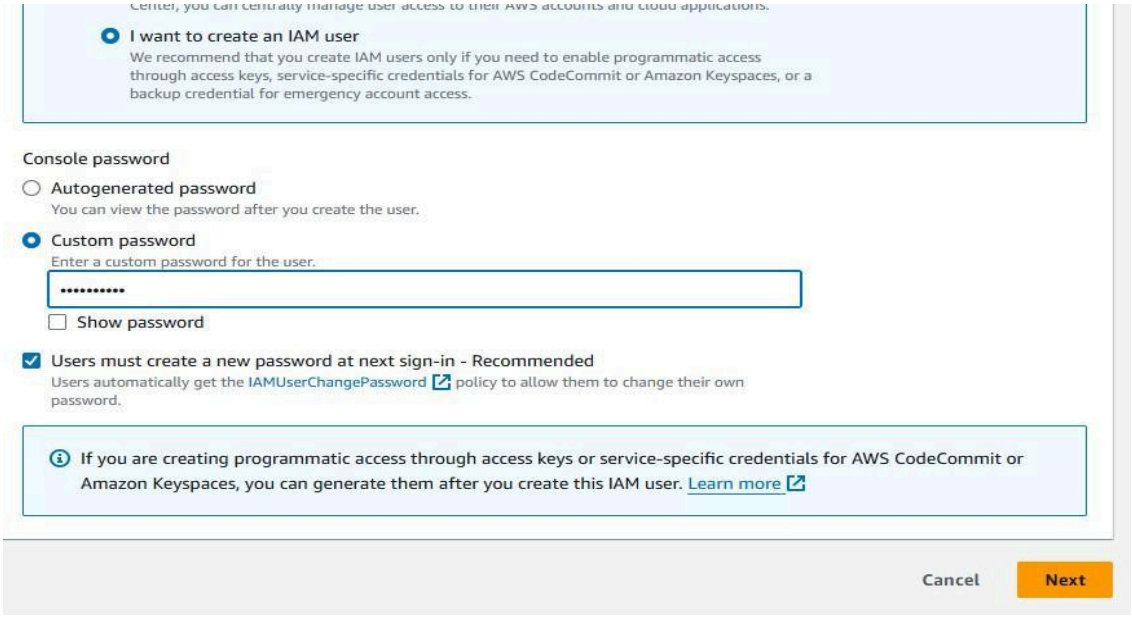
2. We have successfully set up and launched our Cloud9 environment. Over here, we can build and develop programs as per our desire. We are also allowed to collaborate with multiple other users and access shared resources.



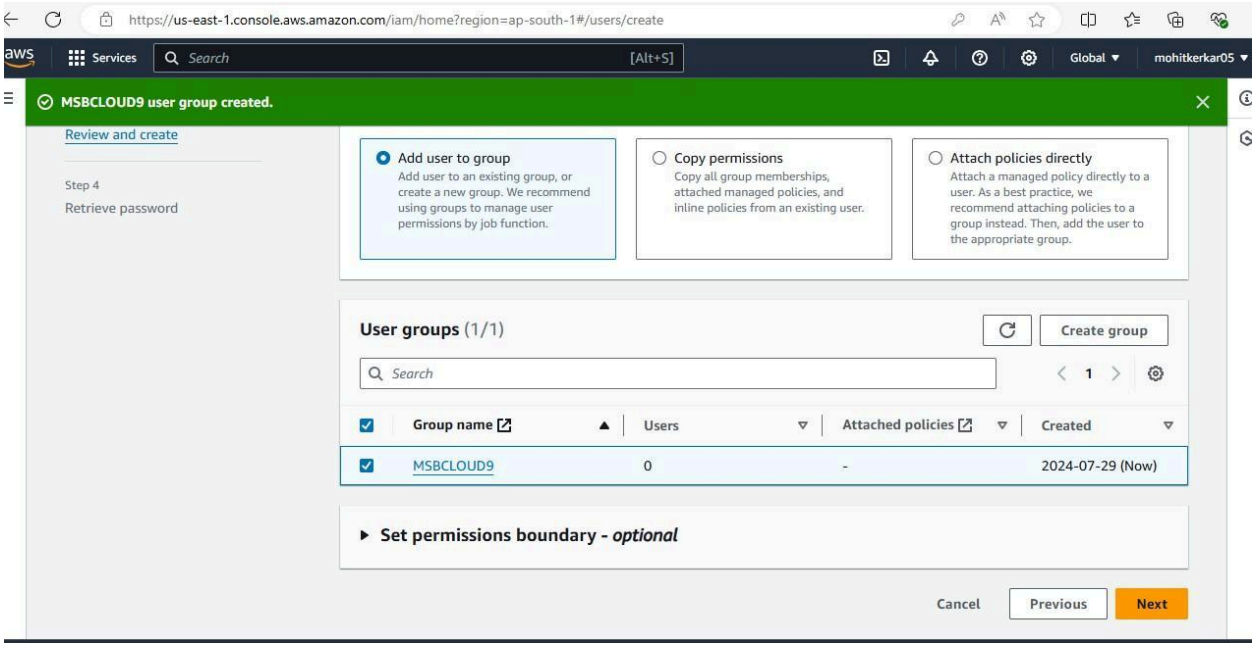
3. Moving on, we are supposed to create a new user. Give a suitable name to the user and decide the password for the same.



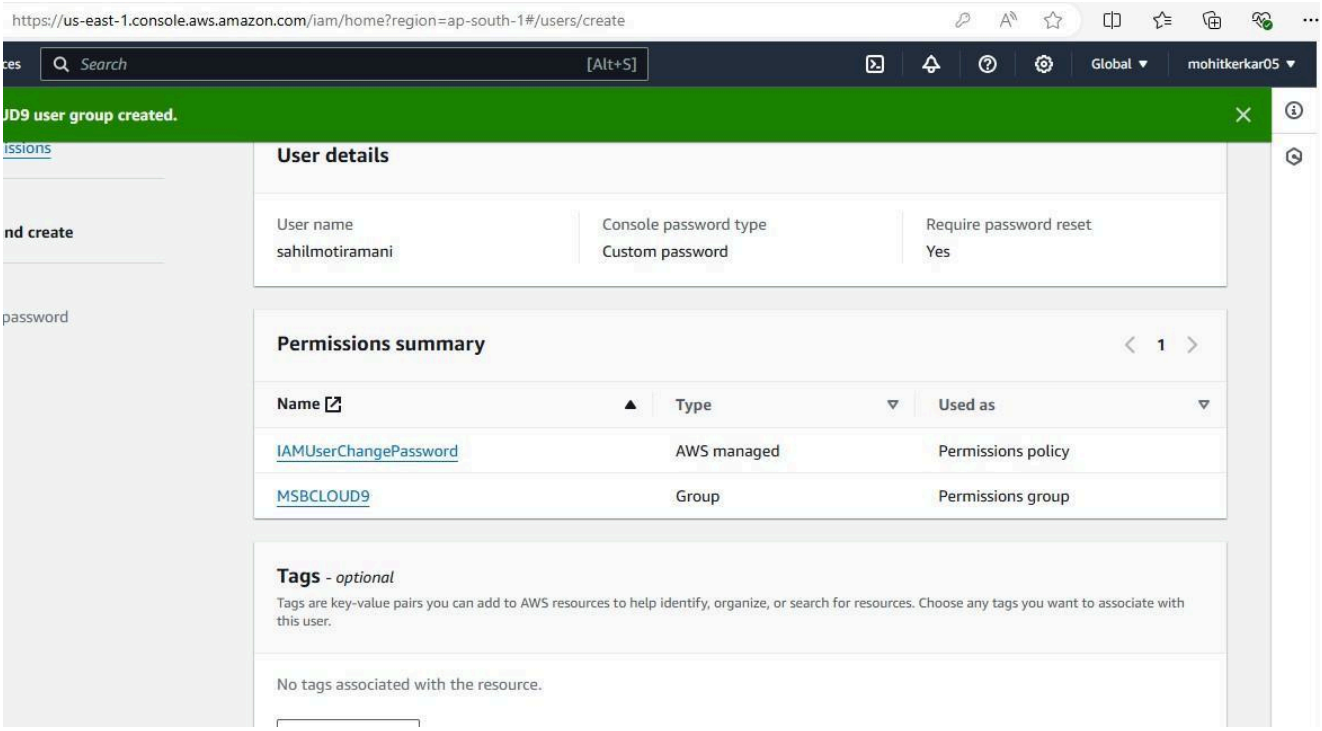




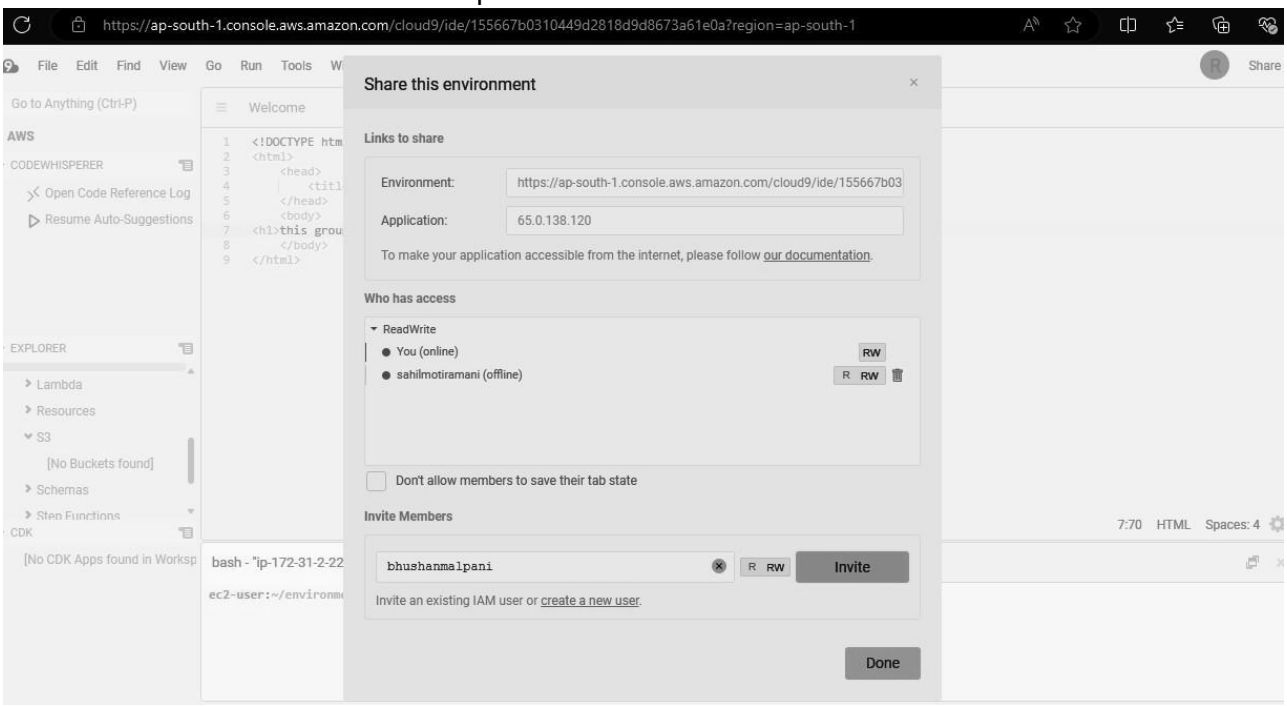
4. Similarly, create a new group and provide a suitable name for them. Include the IAM users in this group together for our convenience, that is, to provide similar kinds of permissions to the entire group rather than an individual user.

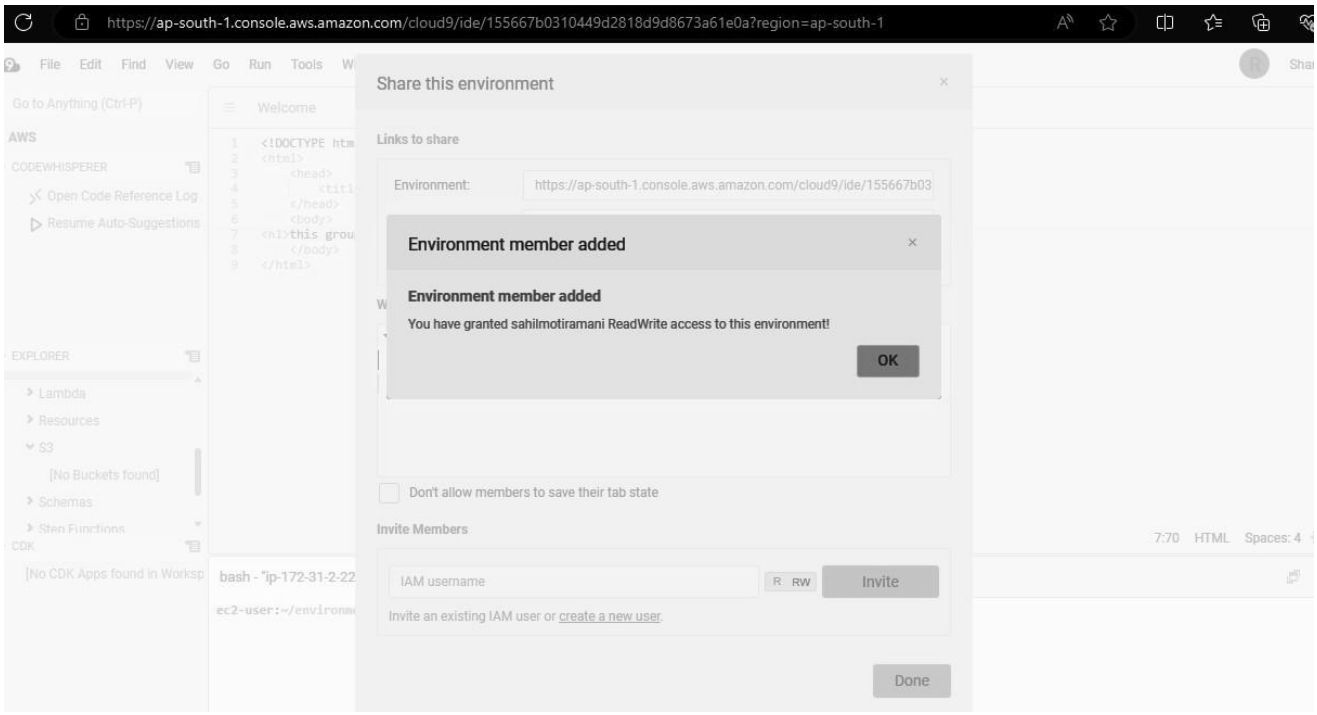


5. The user has successfully been created i.e. There is a custom-made username and a password for the IAM user.



6. Go back to the cloud9 environment. Click on the 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, 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.