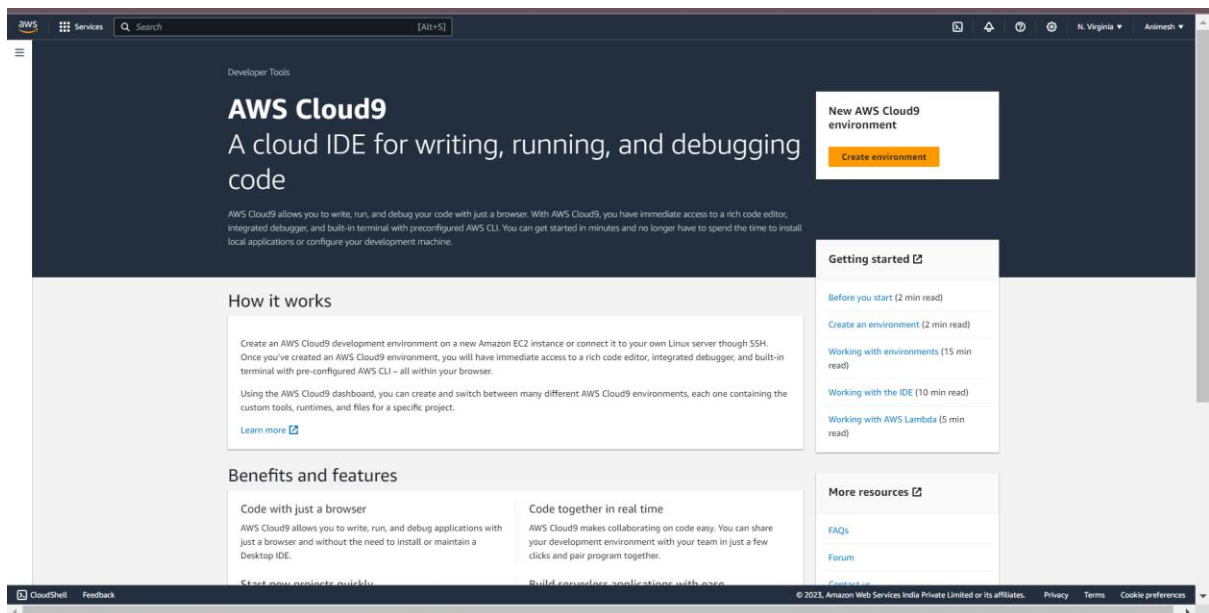**ASSIGNMENT 2 CLOUD9**

AIM- To create aws Cloud9 IDE account and execute python application development.

Theory-Cloud9 IDE is an Online IDE, published as open source from version 2.0, until version 3.0. It supports multiple programming languages, including C, C++, PHP, Ruby, Perl, Python, JavaScript with Node.js, and Go. It is written almost entirely in JavaScript, and uses Node.js on the back-end.

STEPS-

LOG IN TO YOUR AWS ACCOUNT,

SEARCH FOR CLOUD 9 IN THE SEARCH BAR

CLICK ON CREATE ENVIRONMENT,

NAME THE ENVIRONMENT

AWS Cloud9 > Environments > Create environment

Create environment Info

Details

Name

Animesh Parab

Limit of 60 characters, alphanumeric, and unique per user.

Description - *optional*

testing

Limit 200 characters.

Environment type Info
Determines what the Cloud9 IDE will run on.

- ● **New EC2 instance**
  Cloud9 creates an EC2 instance in your account. The configuration of your EC2 instance cannot be changed by Cloud9 after creation.

- ○ **Existing compute**
  You have an existing instance or server that you'd like to use.

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 2.

Amazon Linux 2 ▾

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

▶ **Tags - *optional*** Info

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.
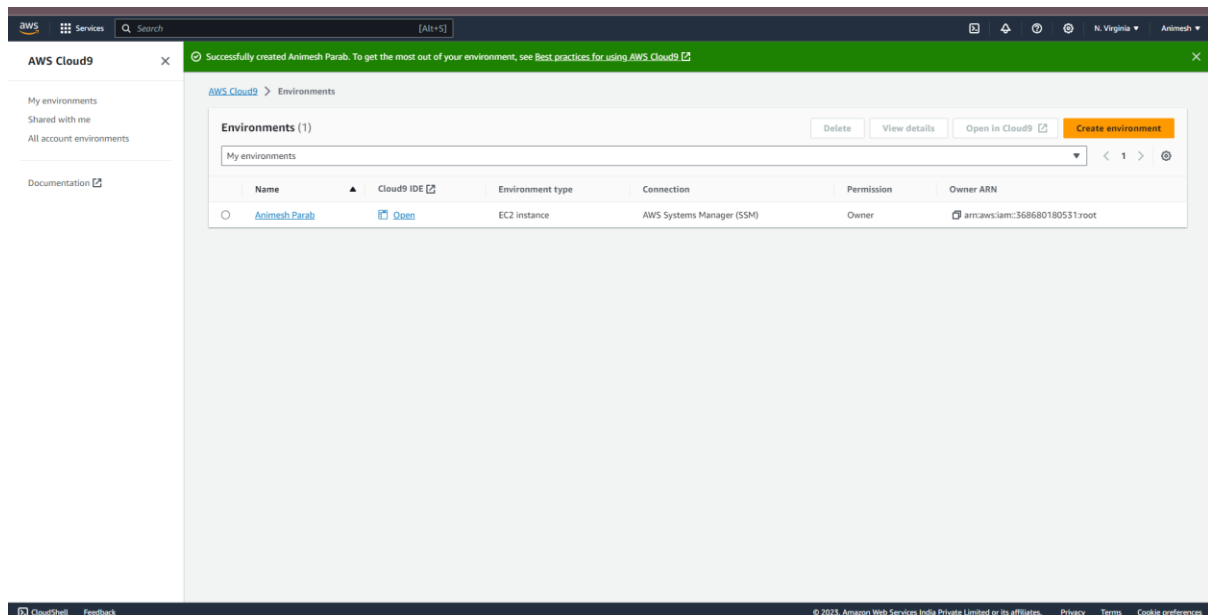
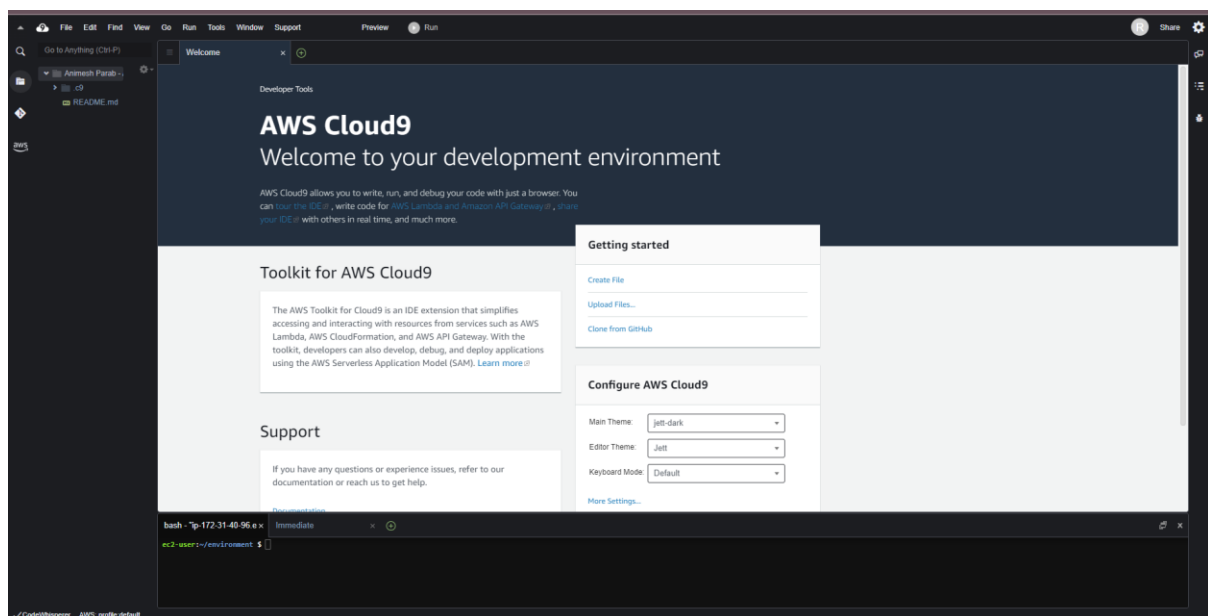ⓘ **The following IAM resources will be created in your account**
- **AWSServiceRoleForAWSCloud9** - AWS Cloud9 creates a service-linked role for you. This allows AWS Cloud9 to call other AWS services on your behalf. You can delete the role from the AWS IAM console once you no longer have any AWS Cloud9 environments. Learn more ☑
- **AWSCloud9SSMAccessRole** and **AWSCloud9SSMInstanceProfile** - A service role and an instance profile are automatically created if Cloud9 accesses its EC2 instance through AWS Systems Manager. If your environments no longer require EC2 instances that block incoming traffic, you can delete these roles using the AWS IAM console. Learn more ☑

Cancel | **Create**

Now select any coding language and perform any operation via a code. Shown below

Conclusion – Hence learned and implemented steps to Create an Cloud9 environment