

AWS Cloud9: AWS Cloud9 is a cloud-based integrated development environment (IDE) that allows you to write, run, and debug your code with just a browser.

Features:

1. Collaboration: Supports real-time collaboration, allowing multiple developers to work on the same codebase simultaneously.
2. Built-in terminal: Provides a terminal with pre-installed development tools, including Git, Python, Node.js, and more.
3. Code editing: Supports code editing with features like syntax highlighting, auto-completion, and code refactoring.
4. AWS Integration: Seamlessly integrates with other AWS services such as Lambda, EC2, and CodeCommit.

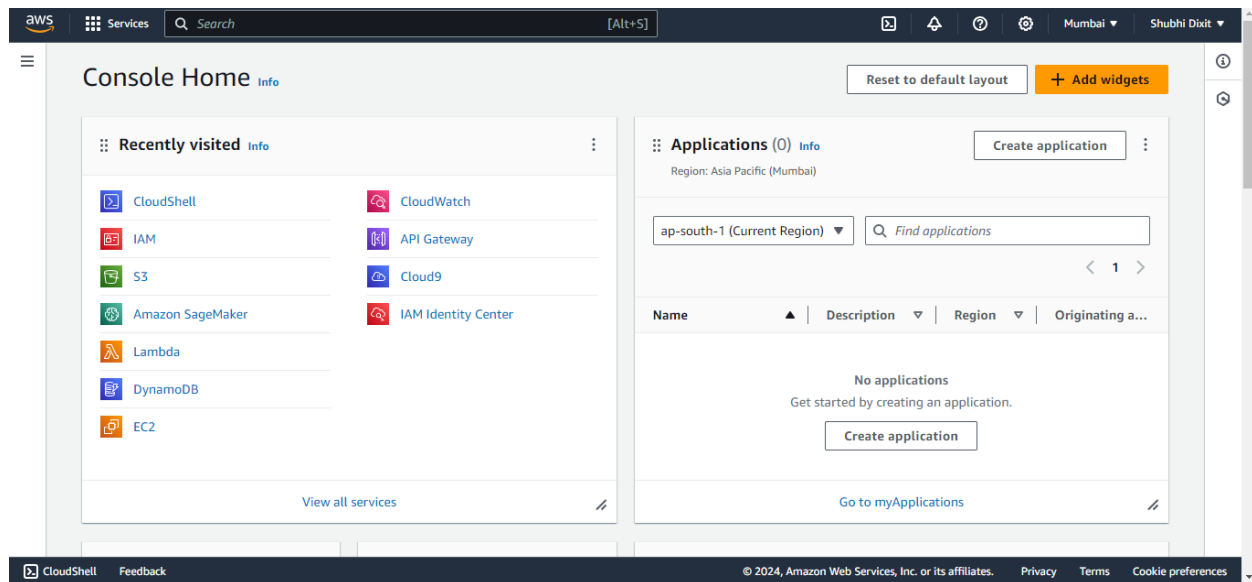
Use Cases:

1. Web development
2. Serverless application development
3. Container-based development

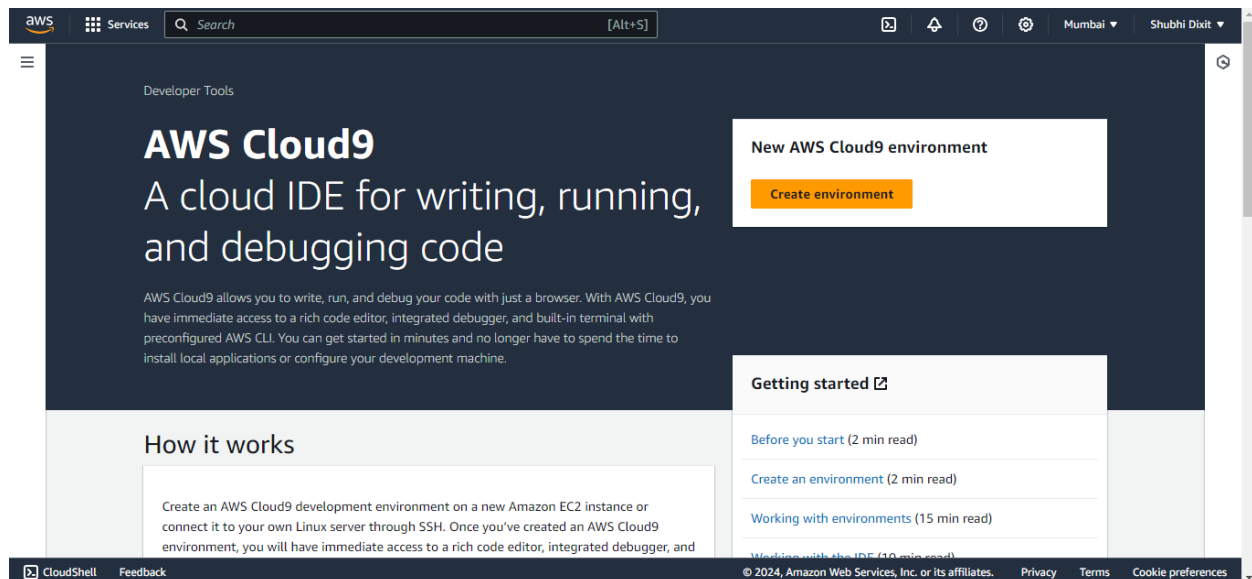
Pricing: Pay-as-you-go pricing model based on compute resources used.

Cloud 9 Setup

Step 1- Go to the AWS Management Console (<https://console.aws.amazon.com/>). Sign in with your credentials.



Step 2- Once logged in, go to the Cloud9 service by typing "Cloud9" in the AWS services search bar.



Step 3- Click on "Create environment". Enter a name for the environment.

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.

Step 5- Leave all other settings as default and click on Create.

aws Services Search [Alt+S] Mumbai Shubhi Dixit

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▼ **VPC settings** [Info](#)

Amazon Virtual Private Cloud (VPC)
The VPC that your environment will access. To allow the AWS Cloud9 environment to connect to its EC2 instance, attach an internet gateway (IGW) to your VPC. [Create new VPC](#)

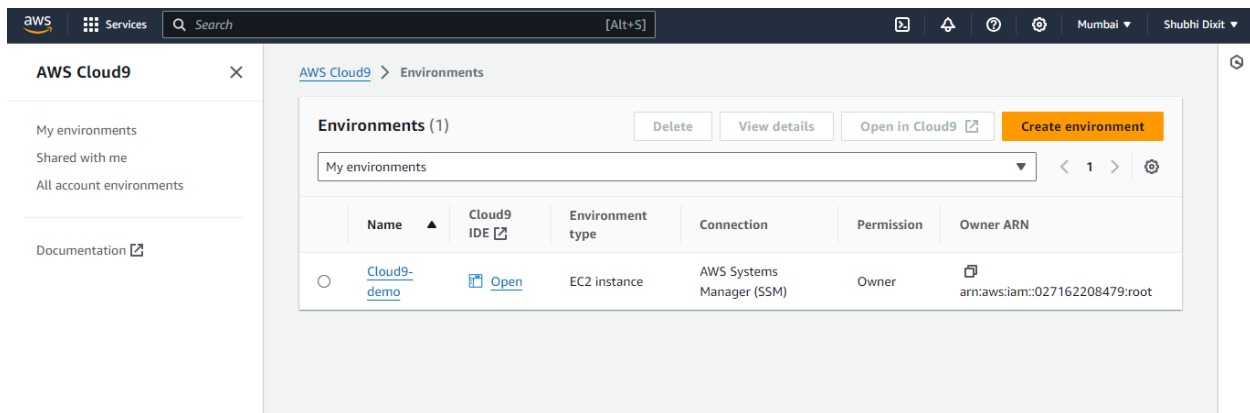
vpc-0729c9c058fde03ab ▼
Name -

Subnet
Used to setup your VPC configuration. To use a private subnet, select AWS Systems Manager (SSM) as the connection type. [Create new subnet](#)

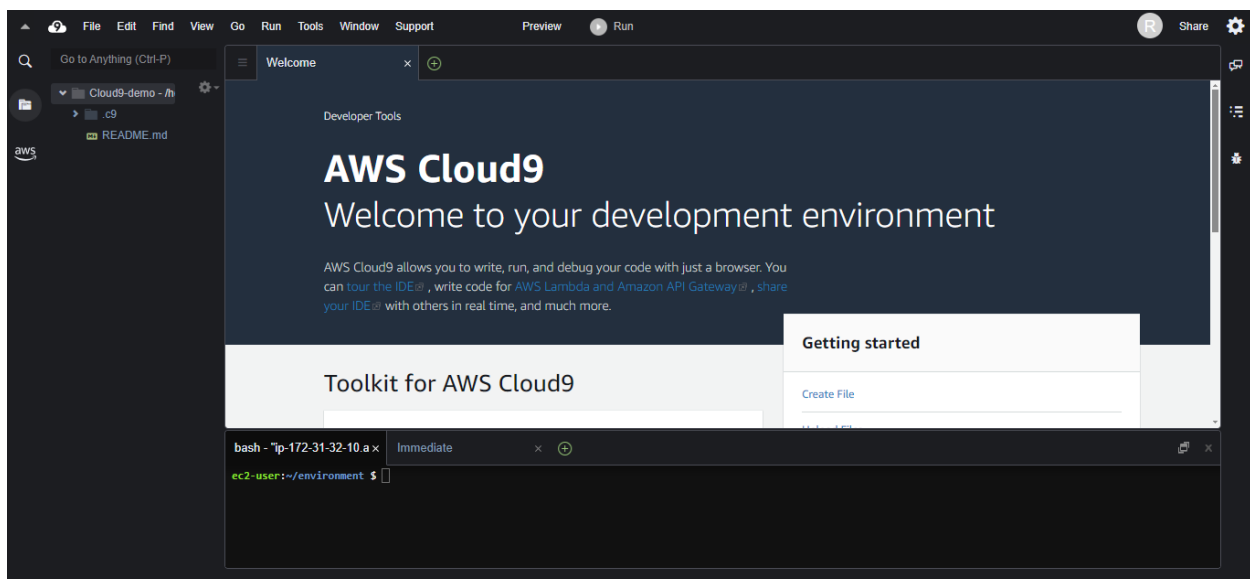
No preference ▼
Uses default subnet in any Availability Zone

► **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.

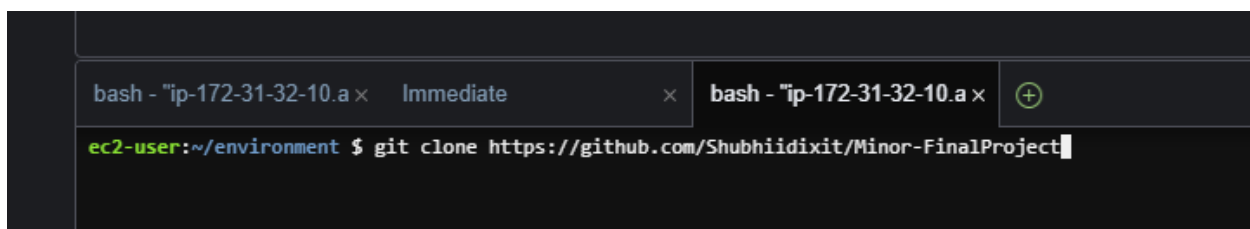
Step 6- AWS Cloud9 will take some time to create the environment. This usually takes 1-2 minutes.



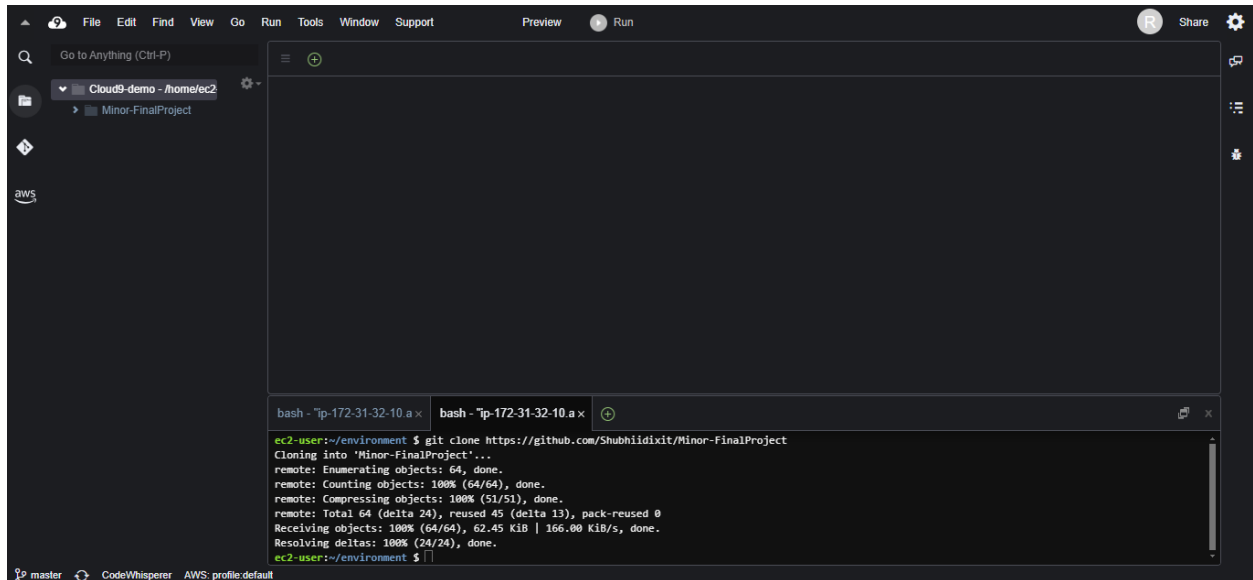
Step 7- Once the environment is created, click on Open. This will launch the Cloud9 IDE in a new browser tab.



Step 8- In the terminal, use the “git clone” command to clone your GitHub repository.



Step 9- Once the repository is cloned, you will find it in your Cloud9 workspace directory. You can navigate to the repository directory and start working on your project.



The screenshot shows the AWS Cloud9 IDE interface. The top menu bar includes File, Edit, Find, View, Go, Run, Tools, Window, and Support. The left sidebar shows the file explorer with the path 'Cloud9-demo - /home/ec2' and 'Minor-FinalProject'. The main editor area is empty. The bottom terminal window shows the output of a git clone command:

```
bash - "ip-172-31-32-10.a x" bash - "ip-172-31-32-10.a x"
ec2-user:~/environment $ git clone https://github.com/Shubhiidixit/Minor-FinalProject
Cloning into 'Minor-FinalProject'...
remote: Enumerating objects: 64, done.
remote: Counting objects: 100% (64/64), done.
remote: Compressing objects: 100% (51/51), done.
remote: Total 64 (delta 24), reused 45 (delta 13), pack-reused 0
Receiving objects: 100% (64/64), 62.45 KiB | 166.00 KiB/s, done.
Resolving deltas: 100% (24/24), done.
ec2-user:~/environment $
```

