





Department of Computer Science & Engineering (CSE)

Experiment No. 3

Title:

Working in Cloud9 to demonstrate different language.

Objective:

To learn Platform as service (PaaS) using Free trial of Cloud9 in AWS, because firstly it was an independent platform now it is integrated with AWS.

Tools used:

Internet, AWS, EC2, Cloud9

Prerequisite:

Understanding of Platform as service in Service model of cloud computing

Theory:

AWS Cloud9 is an integrated development environment, or *IDE*.

The AWS Cloud9 IDE offers rich code-editing experience with support for several programming languages and runtime debuggers, and a built-in terminal. It contains a collection of tools that you use to code, build, run, test, and debug software, and helps you release software to the cloud.

You access the AWS Cloud9 IDE through a web browser. You can configure the IDE to your preferences. You can switch color themes, bind shortcut keys, enable programming language-specific syntax coloring and code formatting, and more.

An *AWS Cloud9 environment* is a place where you store your project's files and where you run the tools to develop your applications.

Using the AWS Cloud9 IDE, you can:

- Store your project's files locally on the instance or server.
- Clone a remote code repository—such as a repo in AWS Code Commit—into your environment.
- Work with a combination of local and cloned files in the environment.

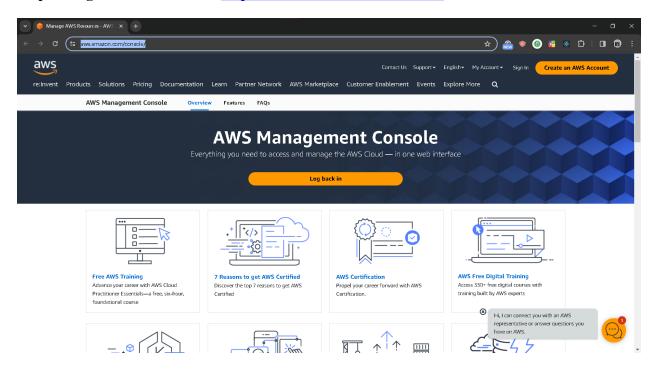




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Steps to set up cloud9.

Step 1 - Sign into the Console https://aws.amazon.com/console/



Step 2. Create EC2 instance and launch it.

- **✓** Log in to your AWS Management Console.
- ✓ Go to the EC2 dashboard and click on the "Launch Instance" button.
- ✓ Choose an Amazon Machine Image (AMI) for your instance.
- ✓ Select an instance type and configure instance details like network settings, storage, and tags.
- ✓ Create a new key pair.
- **✓** Configure security groups to control inbound and outbound traffic.
- ✓ Review your instance settings and launch the EC2 instance.
- ✓ Create or use an existing key pair for secure access to your instance.

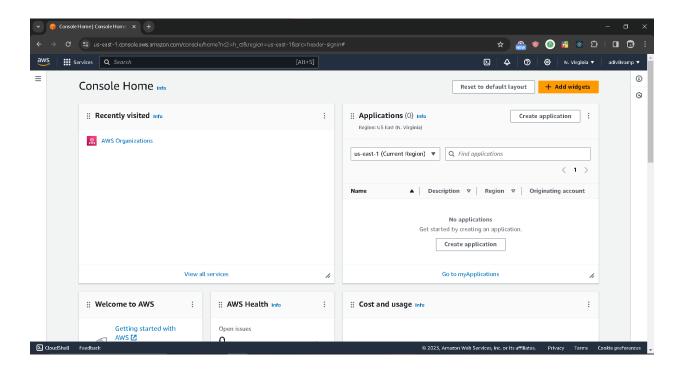


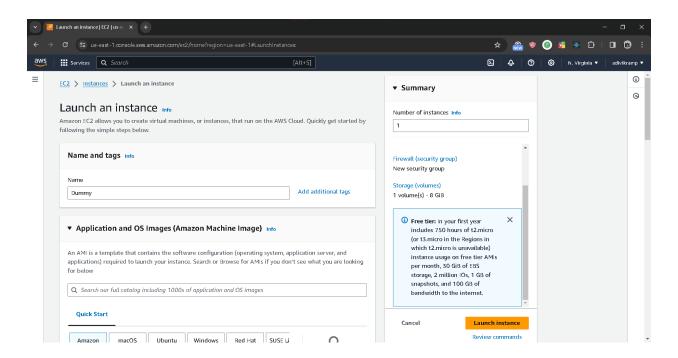




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✓ Access your EC2 instance using SSH (Secure Shell) or other remote access methods.

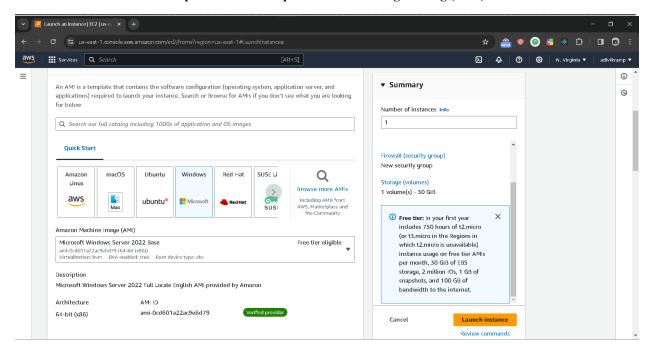


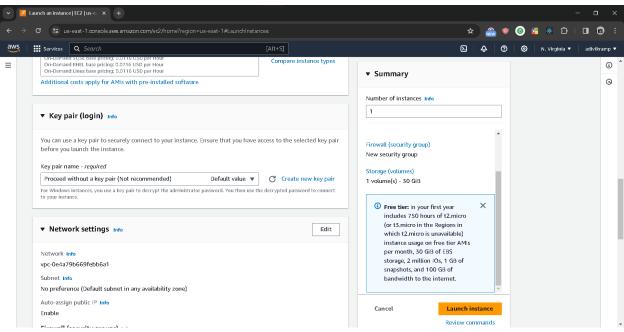






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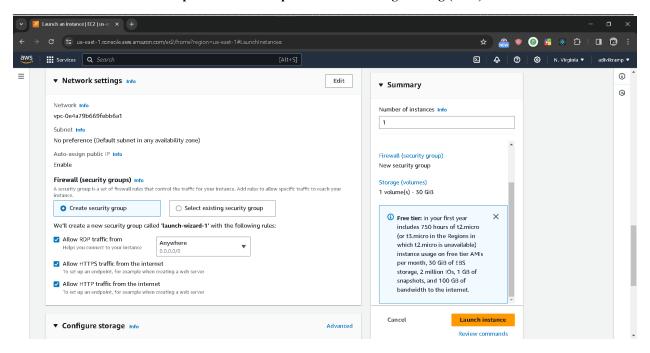


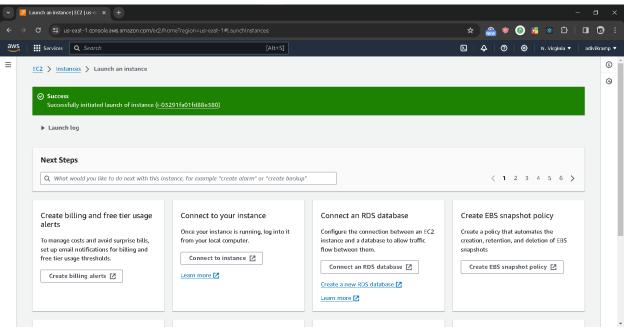






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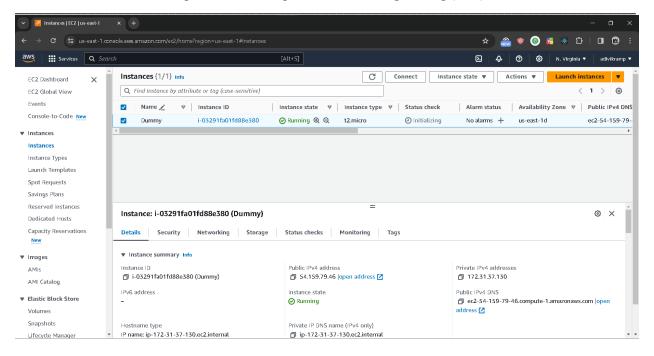








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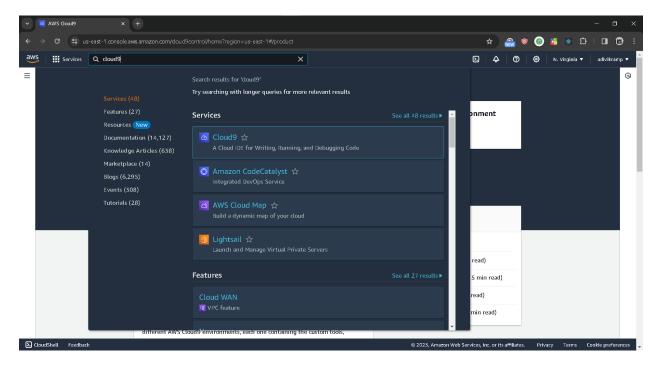




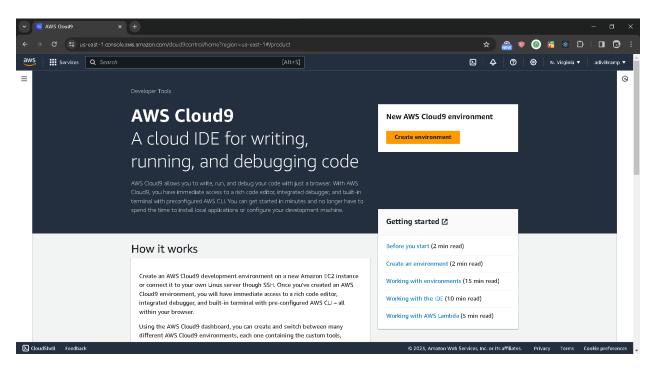


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Step 3 – Now we create instance and launch it, now it's time for Cloud9's setup



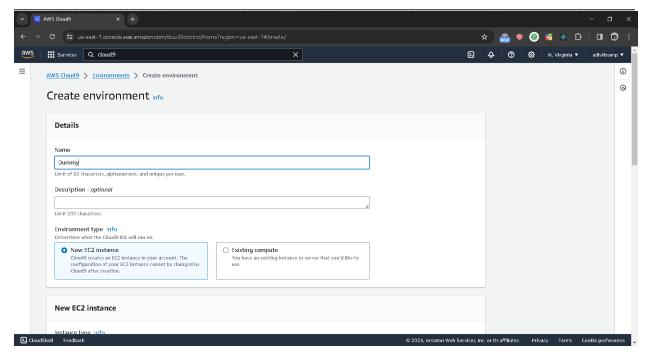
Create New Environment

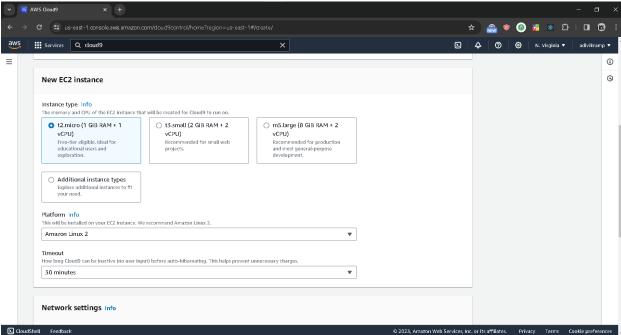






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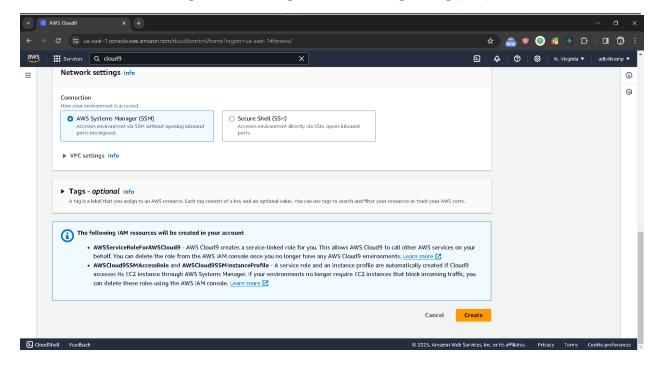




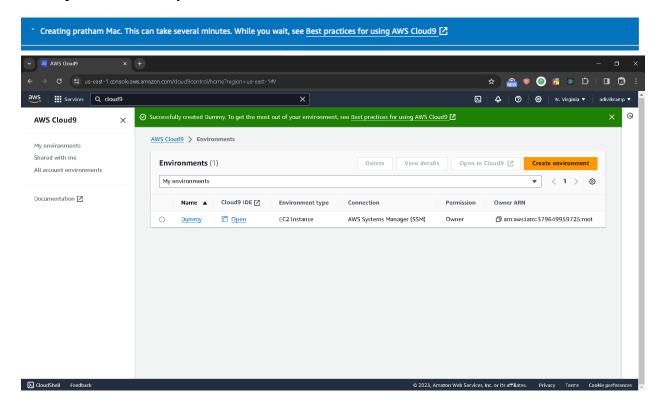




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Step 4 – Successfully Account is created

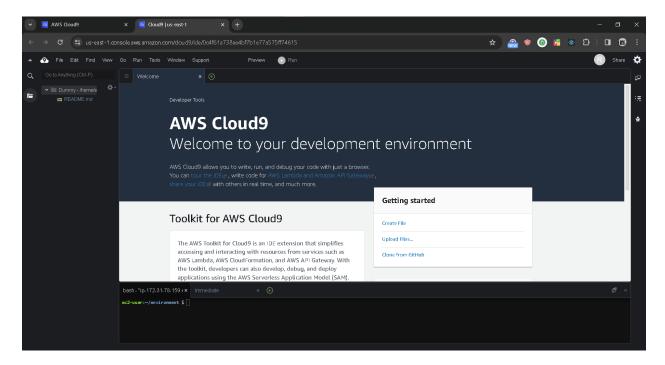




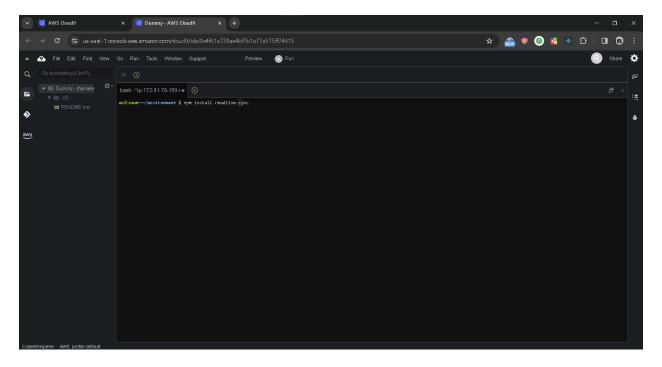


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Step 5 – After creating the cloud9 environment now we can start code in the environment.



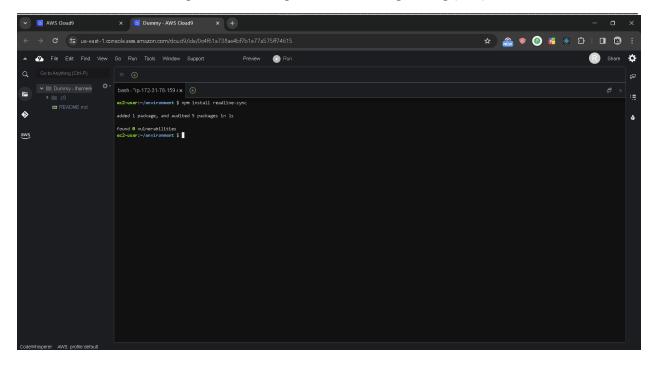
```npm install readline-sync```







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## Step 6. – Write the code in editor

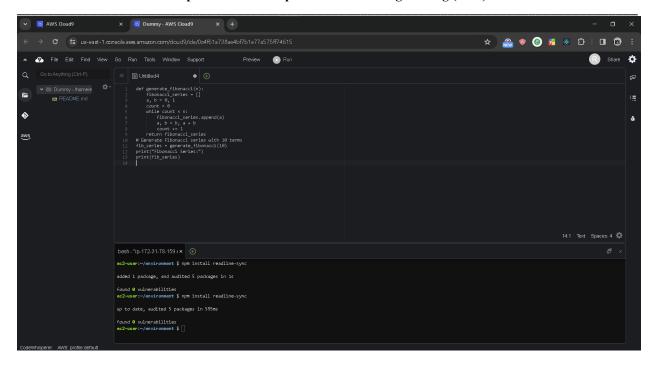
## python code for fibonacci series

```
def generate_fibonacci(n):
 fibonacci_series = []
 a, b = 0, 1
 count = 0
 while count < n:
 fibonacci_series.append(a)
 a, b = b, a + b
 count += 1
 return fibonacci_series
Generate Fibonacci series with 10 terms
fib_series = generate_fibonacci(10)
print("Fibonacci Series:")
print(fib_series)</pre>
```



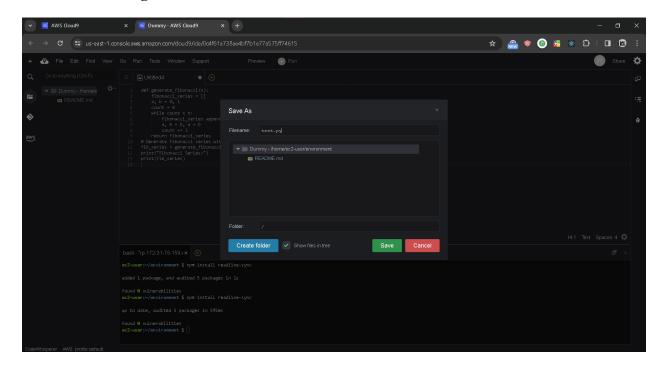






Step 7 – Save the file and run the code.

- 1. Click on Run
- 2. Run Configuration
- 3. New Configuration

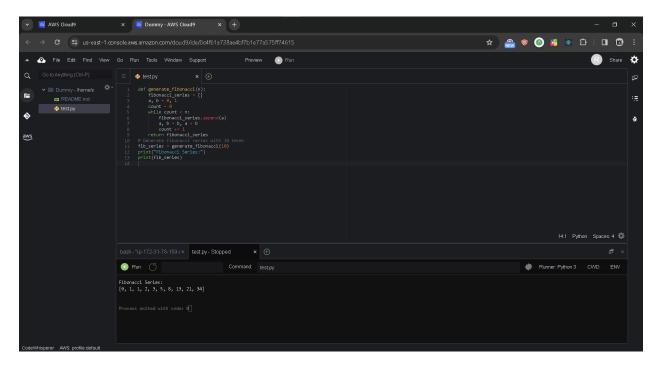








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In cloud9 you can write code in any languages like C++, C, python and many more.

## Conclusion-

Successfully learnt Working in Cloud9 to demonstrate different language.