Assignment 1

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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.

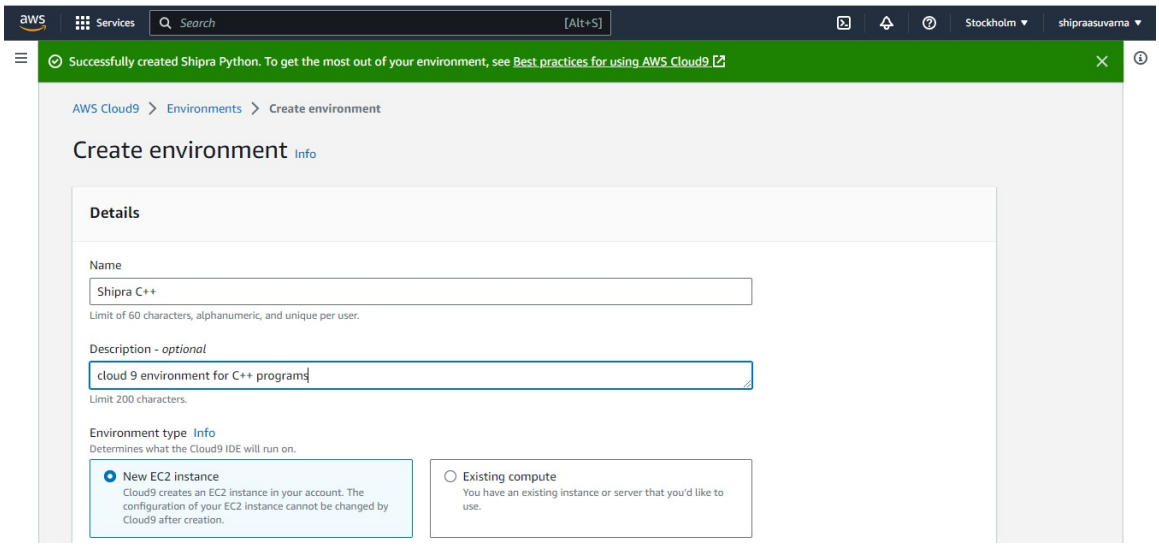
Theory:

Cloud 9

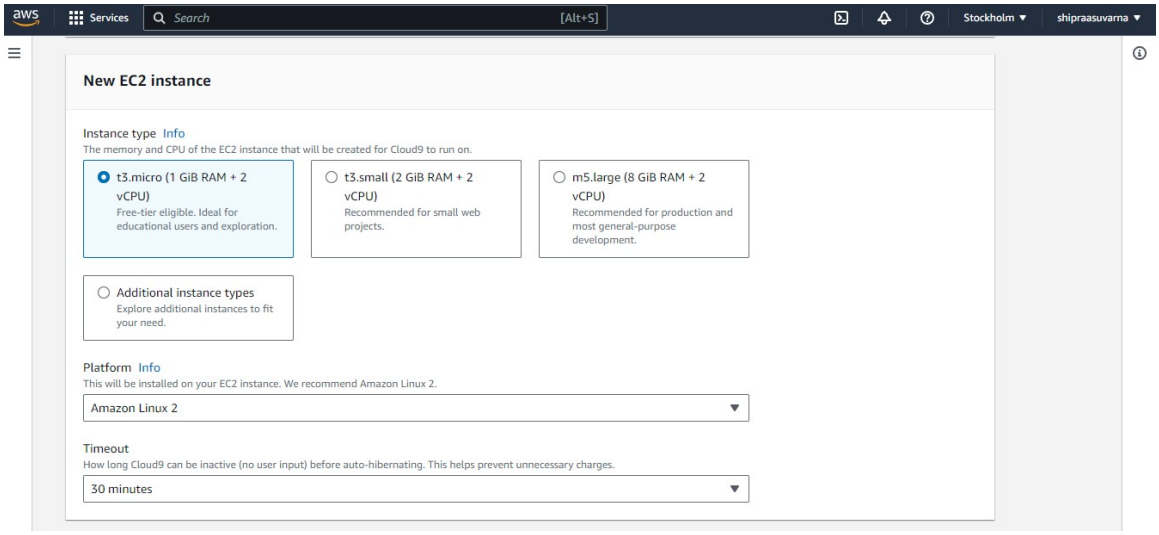
Cloud9 IDE is an Online IDE, published as open source from version 2.0, until version 3.0. It supports multiple programming languages, including C, C++, PHP, Ruby, Perl, Python, JavaScript with Node.js, and Go. It is written almost entirely in JavaScript, and uses Node.js on the back-end.

Steps to create an environment on cloud 9:

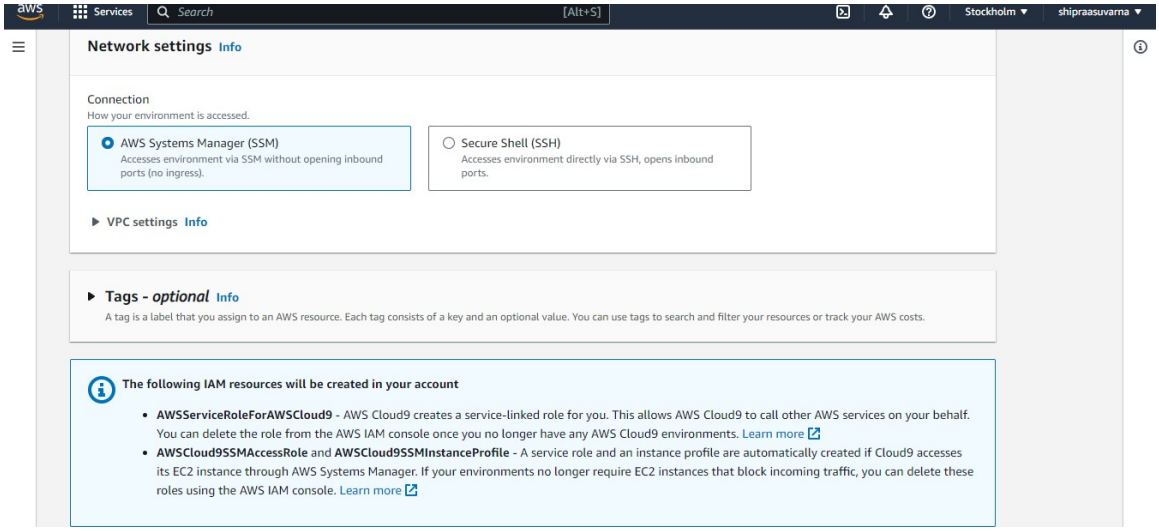
Step1: On the Create environment page enter a name for your environment. To add a description to your environment, enter it in the Description field. For Environment type, choose New EC2 instance to create an Amazon EC2 environment.



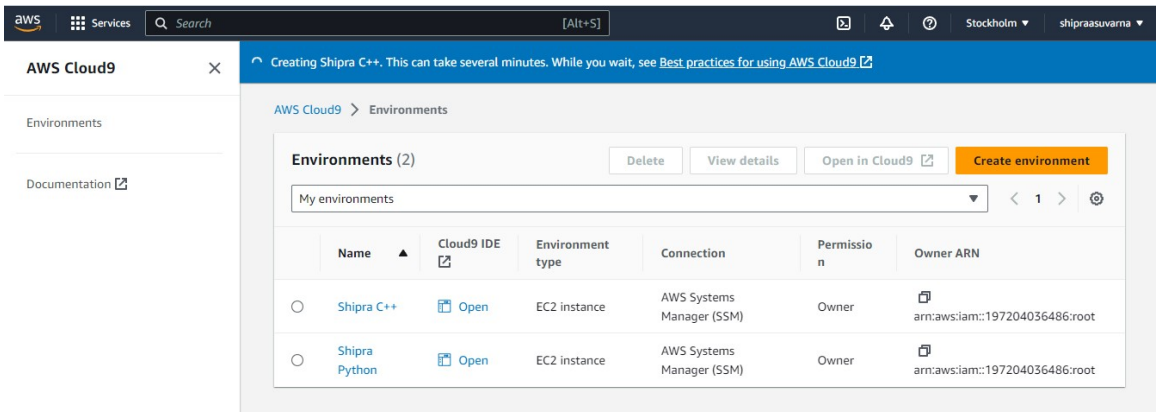
Step 2: For Instance type, choose an instance type with the amount of RAM and vCPUs that you think you need for the kinds of tasks that you want to do. I am going to choose t3.micro. For Platform, choose Amazon Linux 2. Choose a time period for Timeout.



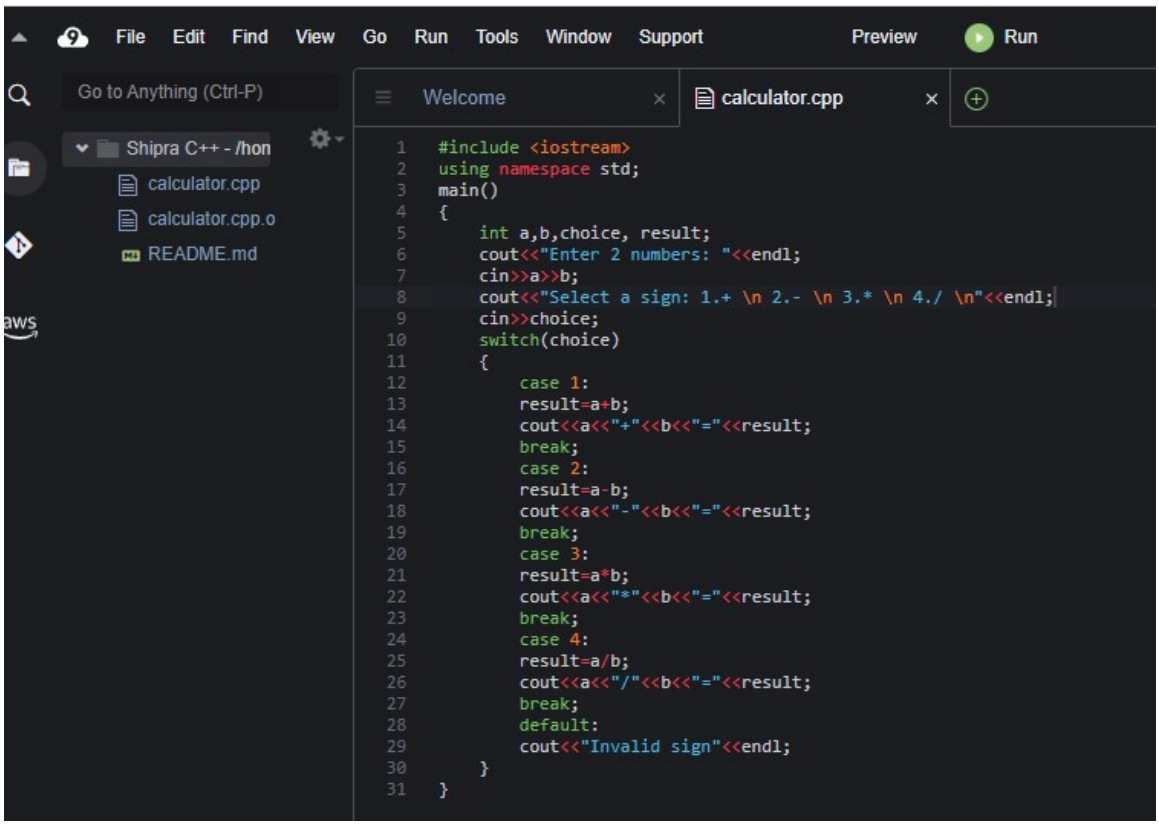
Step 3: On the Network settings panel, choose how your environment is accessed from the two following options: AWS Systems Manager (SSM) – This method accesses the environment using SSM without opening inbound ports.

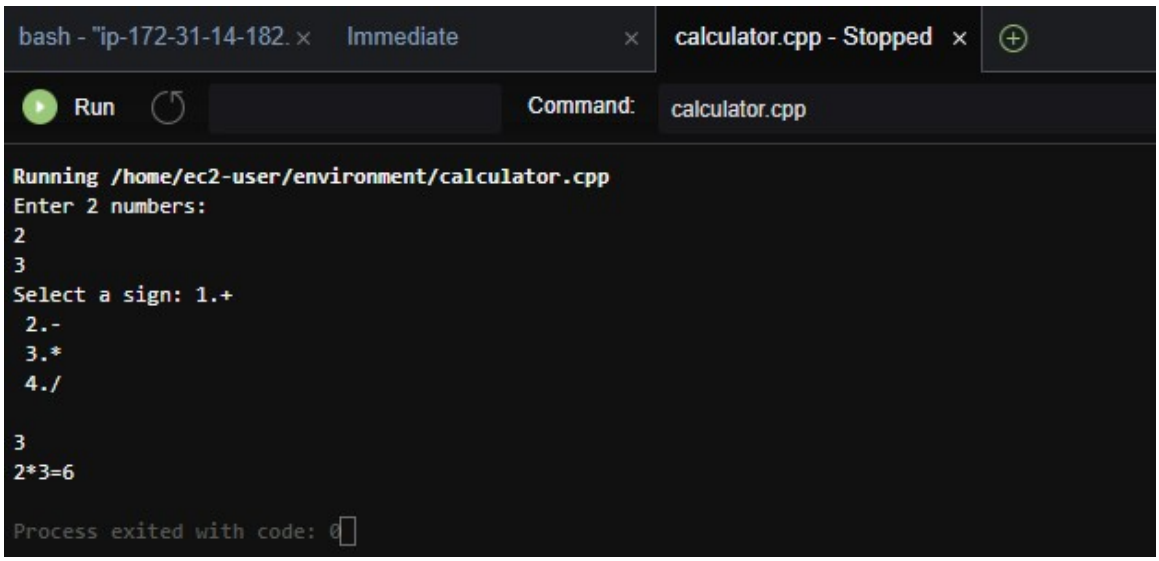


Step 4: The new environment is created.



Step 5: Open the new environment, create a new file and wite a c++ program to make a calculator.





LO Mapped: LO1

Conclusion: Understood the fundamentals of Cloud Computing and are fully proficient with Cloud based DevOps solution deployment options to meet our business requirements.