

8. Post-Experiments Exercise

A. Extended Theory:

a. Check current git version supported by IDE(attach SS here)

```
ec2-user:~/environment $ aws --version
aws-cli/1.19.112 Python/2.7.18 Linux/4.14.320-242.534.amzn2.x86_64 botocore/1.20.112
ec2-user:~/environment $ git --version
git version 2.40.1
ec2-user:~/environment $ java -version
openjdk version "11.0.20" 2023-07-18 LTS
OpenJDK Runtime Environment Corretto-11.0.20.8.1 (build 11.0.20+8-LTS)
OpenJDK 64-Bit Server VM Corretto-11.0.20.8.1 (build 11.0.20+8-LTS, mixed mode)
ec2-user:~/environment $ python --version
Python 3.7.16
ec2-user:~/environment $ pwd
/home/ec2-user/environment
ec2-user:~/environment $ ls
README.md
ec2-user:~/environment $
```

b. Give command to create empty python file using IDE terminal(attach SS here)

```
$ touch darish.py
```

B. Questions:

2. Which programming languages are supported by cloud9? (Soft copy)

AWS Cloud9 supports over 40 programming languages, including:

1. JavaScript
2. Python
3. Ruby
4. Java
5. PHP
6. C++
7. C#
8. Go
9. D
10. TypeScript
11. HTML
12. CSS
13. Swift
14. Kotlin
15. Rust
16. Scala
17. Perl
18. Shell scripting (Bash)
19. R
20. Haskell
21. Matlab
22. Erlang

us-east-1.console.aws.amazon.com/cloud9control/home?region=us-east-1#/product

awsServicesSearch[Alt+S]

N. VirginiaDarish Dias

Developer Tools

AWS Cloud9

A cloud IDE for writing, running, and debugging code

AWS Cloud9 allows you to write, run, and debug your code with just a browser. With AWS Cloud9, you have immediate access to a rich code editor, integrated debugger, and built-in terminal with preconfigured AWS CLI. You can get started in minutes and no longer have to spend the time to install local applications or configure your development machine.

New AWS Cloud9 environment

[Create environment](#)

Getting started

[Before you start \(2 min read\)](#)[Create an environment \(2 min read\)](#)[Working with environments \(15 min read\)](#)[Working with the IDE \(10 min read\)](#)[Working with AWS Lambda \(5 min read\)](#)

How it works

Create an AWS Cloud9 development environment on a new Amazon EC2 instance or connect it to your own Linux server through SSH. Once you've created an AWS Cloud9 environment, you will have immediate access to a rich code editor, integrated debugger, and built-in terminal with pre-configured AWS CLI – all within your browser.

Using the AWS Cloud9 dashboard, you can create and switch between many different AWS Cloud9 environments, each one containing the custom tools, runtimes, and files for a specific project.

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Home

awsServicesSearch[Alt+S]

N. VirginiaDarish Dias

New EC2 ExperienceTell us what you think

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Resources

EC2 Global view

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)	0	Auto Scaling Groups	0	Dedicated Hosts	0
Elastic IPs	0	Instances	0	Key pairs	0
Load balancers	0	Placement groups	0	Security groups	1
Snapshots	0	Volumes	0		

ⓘ Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#)

×

Launch instance

To get started, launch an Amazon EC2 Instance, which is a virtual server in the cloud.

Launch instance

Migrate a server

Note: Your instances will launch in the US East (N. Virginia) Region

Service health

AWS Health Dashboard

Region

US East (N. Virginia)

Status

✔ This service is operating normally

Account attributes

Supported platforms

VPC

Default VPC

vpc-0d95b2ae35480e340

Settings

EBS encryption

Zones

EC2 Serial Console

Default credit specification

Console experiments

Explore AWS

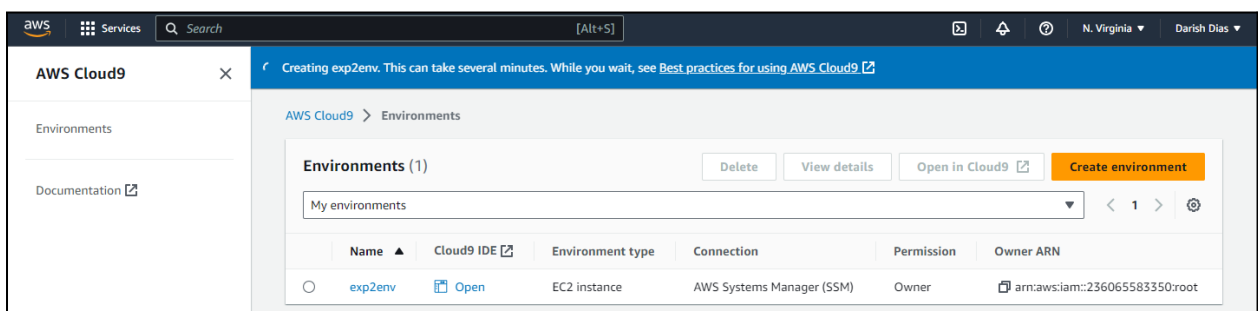
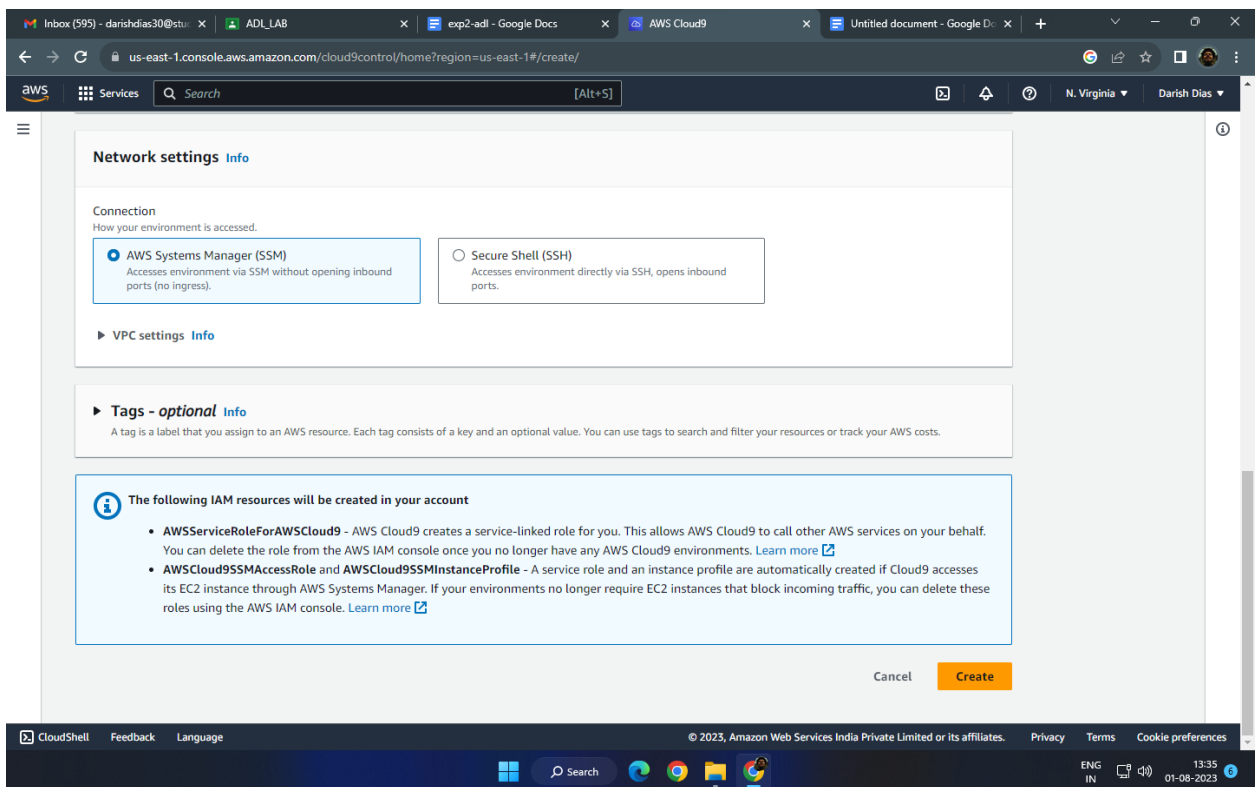
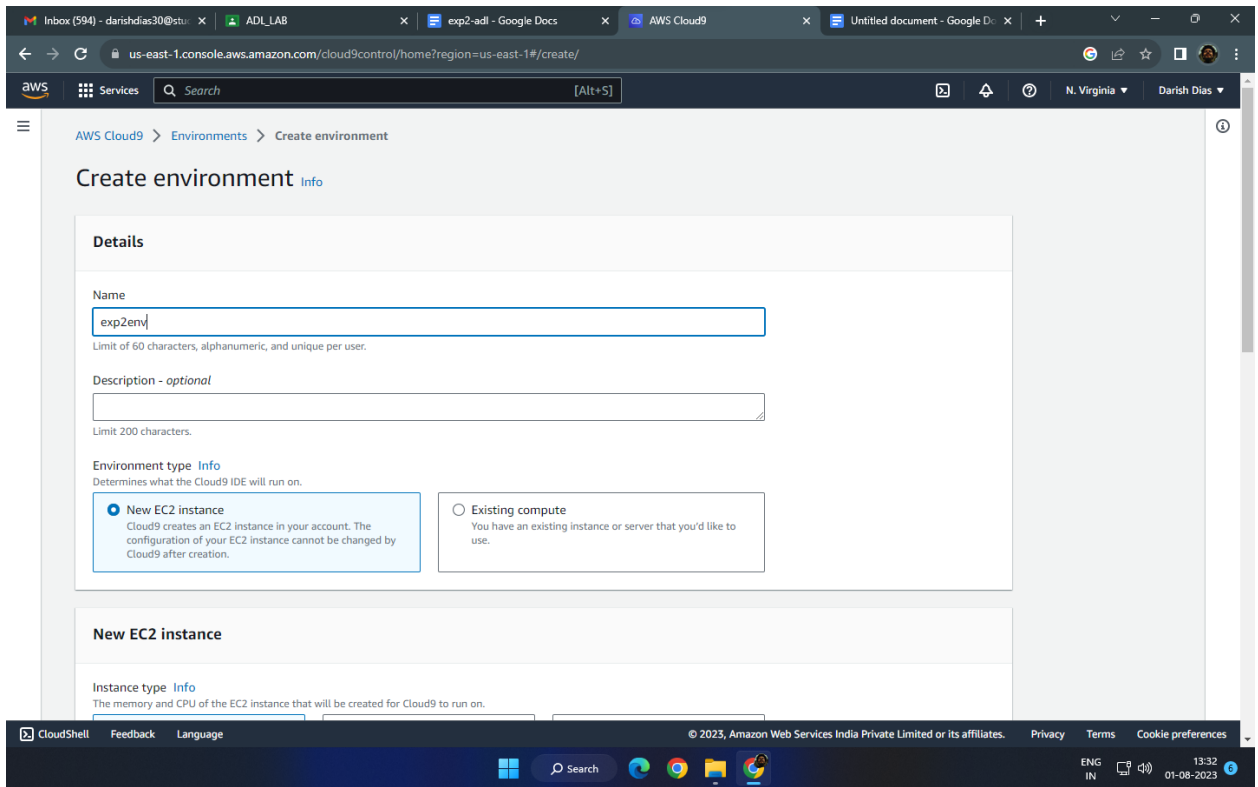
Enable Best Price-Performance with AWS Graviton2

AWS Graviton2 powered EC2 instances enable up to 40% better price performance for a broad spectrum of cloud workloads. [Learn more](#)

Save up to 90% on EC2 with Spot Instances

Optimize price-performance by combining EC2 purchase options in a single EC2 ASG. [Learn](#)

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Instances (running)1

Auto Scaling Groups0

Dedicated Hosts0

Elastic IPs0

Instances1

Key pairs0

Load balancers0

Placement groups0

Security groups2

Snapshots0

Volumes1

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Explore AWS

10 Things You Can Do Today to Reduce AWS Costs

Explore how to effectively manage your AWS costs without compromising on performance or capacity. [Learn more](#)

Enable Best Price-Performance with AWS Graviton2

AWS Graviton2 powered EC2 instances enable up

New EC2 Experience

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Instances (1) info

Find instance by attribute or tag (case-sensitive)

Instance state = running

Clear filters

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	aws-cloud9-ex...	i-0f01ec5f5046d0595	Running	t2.micro	Initializing	No alarms	us-east-1b

Select an instance

CloudFormation

StackSets

Exports

Designer

Registry

Public extensions

Activated extensions

CloudFormation > Stacks

Stacks (1)

Delete

Update

Stack actions

Create stack

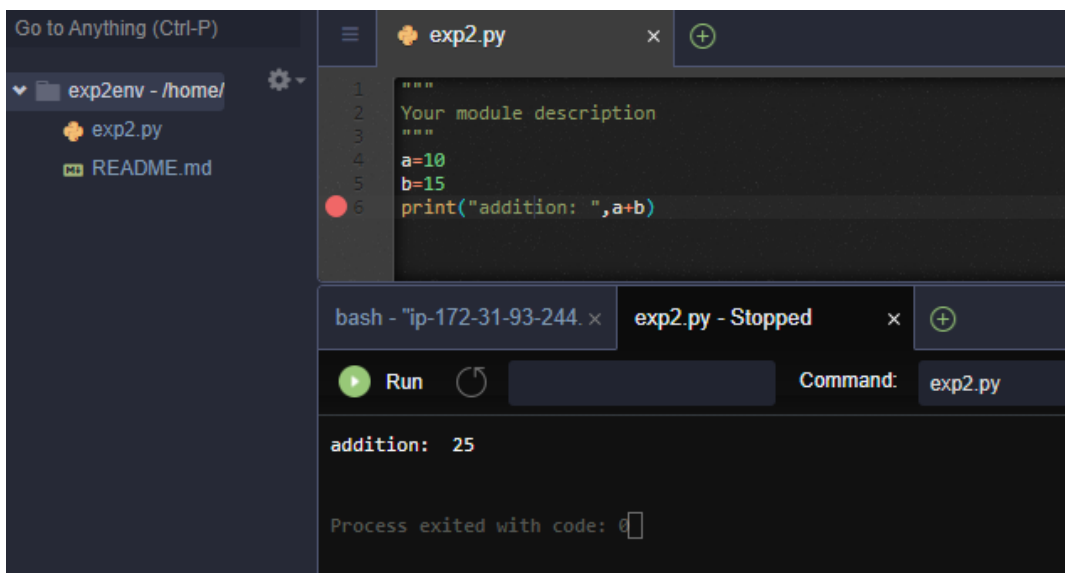
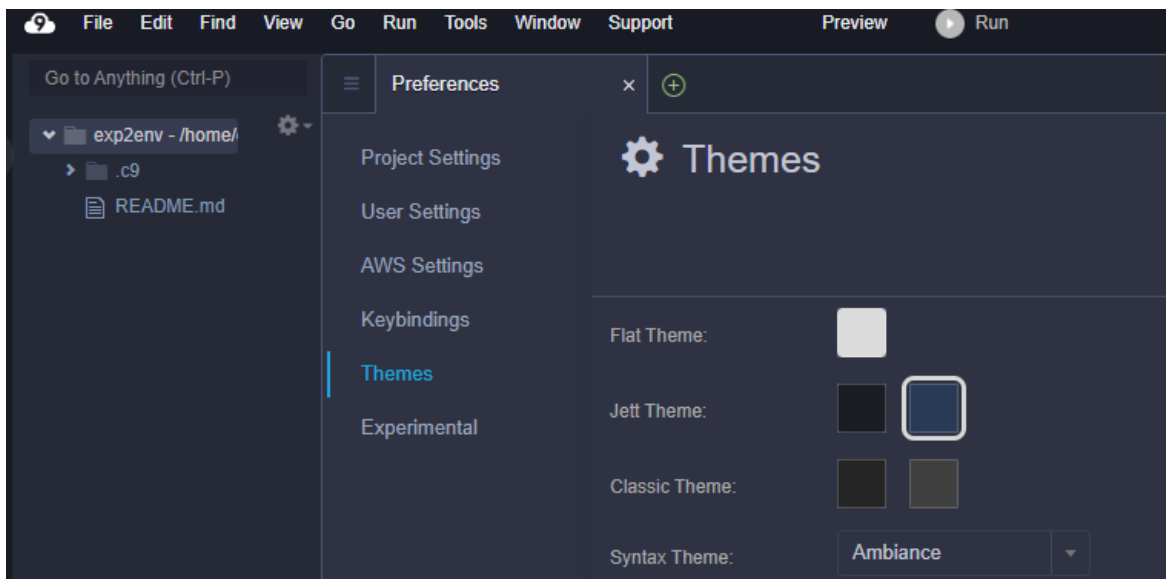
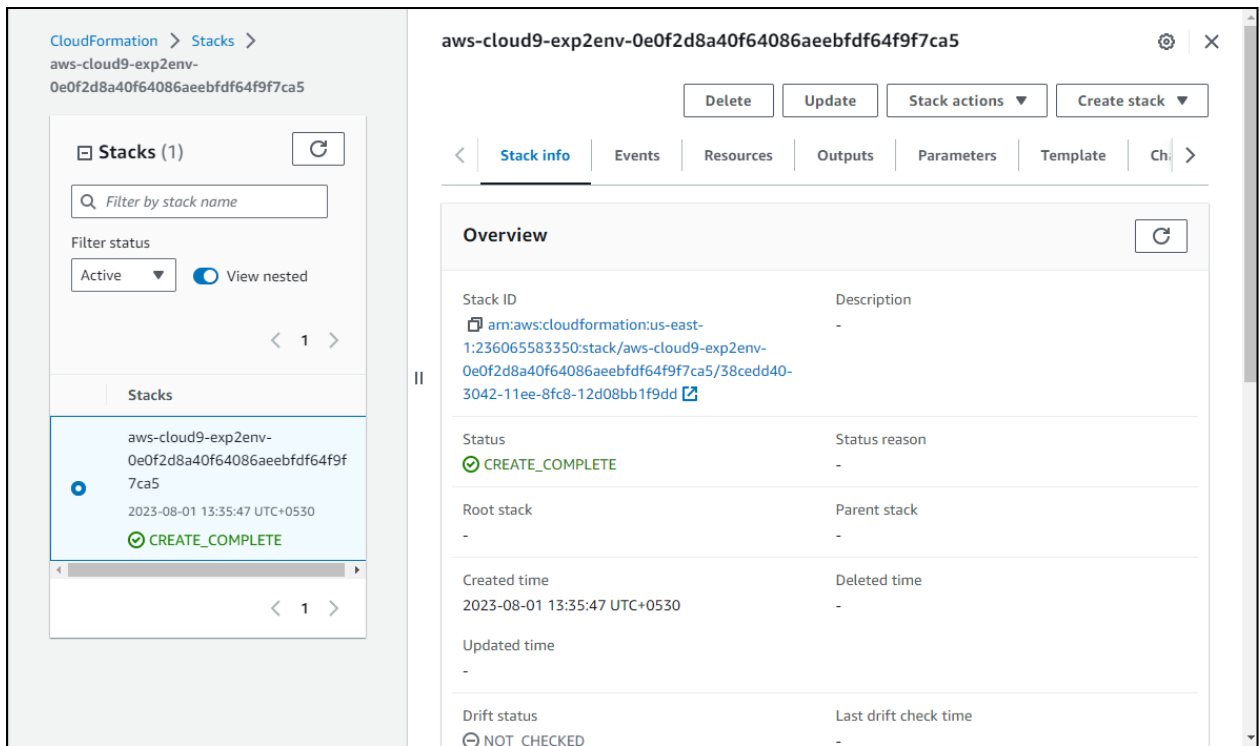
Filter by stack name

Filter status

Active

View nested

	Stack name	Status	Created time	Description
<input type="radio"/>	aws-cloud9-exp2env-0e0f2d8a40f64086aeebfdf64f9f7ca5	CREATE_COMPLETE	2023-08-01 13:35:47 UTC+0530	-



exp2.py

```

1  # Your module description
2
3
4  a=10
5  b=15
6  print("addition: ",a+b)

```

6:1 Python Spaces: 4

exp2.py - Running

Stop

Command: exp2.py

Runner: Python 3 CWD ENV

```

[IKP3db-g] 08:33:57,810701 - INFO - IKP3db 1.4.1 - Inouk Python Debugger for CPython 3.6+
[IKP3db-g] 08:33:57,811146 - INFO - IKP3db listening on 127.0.0.1:15471
[IKP3db-g] 08:33:57,820461 - INFO - Connected with 127.0.0.1:55886

```

WATCH EXPRESSIONS

Expression	Value	Type
Type an expression here...		

CALL STACK

Function	File
<module>() [MainThread]	exp2.py :6:1

LOCAL VARIABLES

Variable	Value	Type
__builtins__	{'__name__': 'builtins', '.....	dict [152]
__doc__	'\nYour module descriptio...	str [25]
__file__	'/home/ec2-user/envIRON...	str [34]
__name__	'__main__'	str [8]
__wamin...	{'version': 0}	dict [1]
a	10	int
b	15	int

BREAKPOINTS

- exp2.py:6
print("addition: ",a+b)

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

Service control policies (SCPs)

IAM > Dashboard

IAM Dashboard

Security recommendations 1

Add MFA for root user

Add MFA for root user - Enable multi-factor authentication (MFA) for the root user to improve security for this account.

Add MFA

Root user has no active access keys

Using access keys attached to an IAM user instead of the root user improves security.

IAM resources

Resources in this AWS Account

User groups	Users	Roles	Policies	Identity providers
0	0	4	0	0

What's new

Updates for features in IAM

View all

AWS Account

Account ID

236065583350

Account Alias

Create

Sign-in URL for IAM users in this account

https://236065583350.signin.aws.amazon.com/console

Quick Links

My security credentials

Manage your access keys, multi-factor authentication (MFA) and other credentials.

Tools

```

a=10
b=15
print("addition: ",a+b)
#typing from main account
#incognito typing

```