# Atria Institute of Technology



# **Department of Information Science and Engineering**

# **Big Data Analytics (18CS72)**

# **Assignment-1**

### **SUBMITTED BY**

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Section: B

Submission Date: 27-11-2023

# **COURSE HANDLING FACULTY NAME:**

Dr. K S Ananda Kumar

**Associate Professor** 

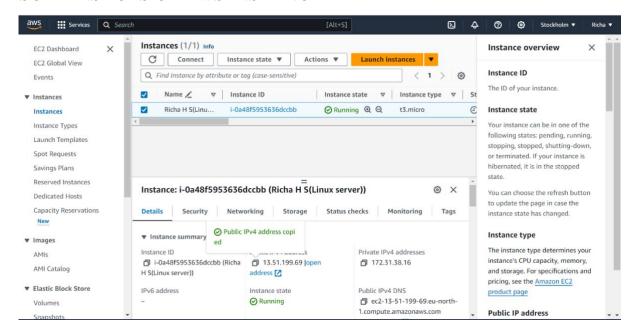
Dept of ISE, Atria IT.

# **Table of contents**

Sl. No	Description
1	1. create an EC2 Linux instance in AWS Cloud /Any cloud
	INSTANCE NAME - YOUR NAME
	INSTANCE TYPE - t2.micro/any other also.
	key pair name- your name
	storage - 10 GB
	Take the screenshot of instance running status
	Mention the private IP address and Public IP address.
	(Execute this program/concept and take a screenshot of the output)
2	Execute the basic Linux commands/ simple program on the instance
	(Execute this program and take a screenshot of the output)
3	Create the GitHub Account with your credentials, Same things stored in
	public repository in Github. Share the assignment in github link.

# **Instance Creation-01**

#### SCREENSHOTS OF AWS INSTANCE



• Instance:

i-0a48f5953636dccbb (Richa H S(Linux server))

• Instance ID:

i-0a48f5953636dccbb (Richa H S(Linux server))

• Public IPv4 address:

13.51.199.69

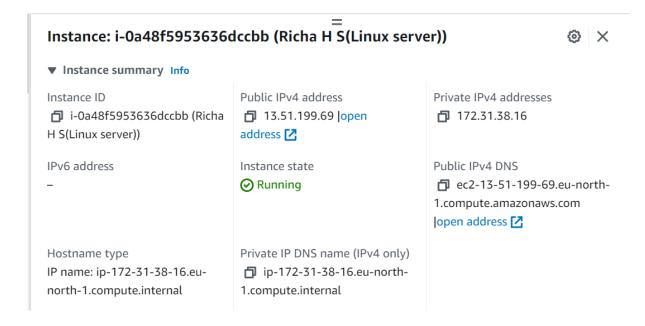
• Private IPv4 addresses:

172.31.38.16

• Instance state:

Running

### SCREENSHOTS OF AWS INSTANCE

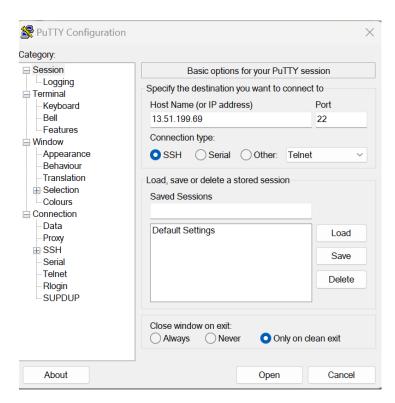


#### Instance: i-0a48f5953636dccbb (Richa H S(Linux server)) ⊗ × Elastic IP addresses Answer private resource DNS Instance type name t3.micro IPv4 (A) Auto-assigned IP address VPC ID **AWS Compute Optimizer finding 1** 13.51.199.69 [Public IP] **□** vpc-0ee72b16b745d7c62 **□** (i) Opt-in to AWS Compute Opti mizer for recommendations. | Learn more 🔀 Subnet ID Auto Scaling Group name IAM Role subnet-Ode5ecdc5f112fc6b 🔀 IMPC^3

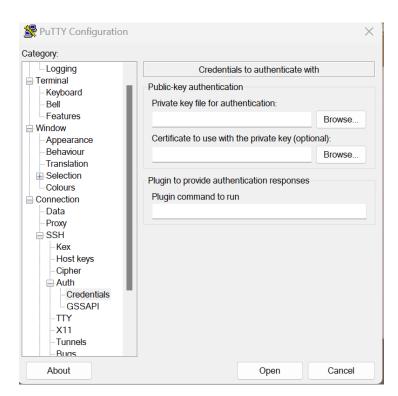
Required  ▼ Instance details Info  Platform	
Platform Ami ID Amazon Linux (Inferred)  Ami ID Amazon Linux (Inferred)  Ami ID Ami-0416c18e75bd69567  Ami name Termination protein Disabled  2023.2.20231113.0-kernel-6.1-	
☐ Amazon Linux (Inferred) ☐ ami-0416c18e75bd69567 disabled  Platform details	
Platform details  AMI name  Termination prote al al 2023-ami- 2023.2.20231113.0-kernel-6.1-	
☐ Linux/UNIX ☐ al2023-ami- Disabled 2023.2.20231113.0-kernel-6.1-	
2023.2.20231113.0-kernel-6.1-	ction
x86_64	
_	
Stop protection Launch time AMI location	

Instance: i-0a48f5953636dccbb (Richa H S(Linux server))								
Stop protection Disabled	Launch time Sun Nov 26 2023 20:21:07 GMT+0530 (India Standard Time) (3 minutes)	AMI location amazon/al2023-ami- 2023.2.20231113.0-kernel-6.1- x86_64						
Instance auto-recovery Default	Lifecycle normal	Stop-hibernate behavior Disabled						
AMI Launch index 0	Key pair assigned at launch richahs-linux	State transition reason						
Credit specification unlimited	Kernel ID	State transition message –						

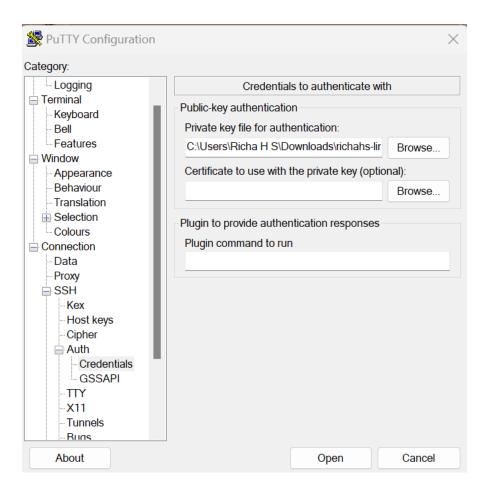
# SCREENSHOTS FROM puTTY-Setup



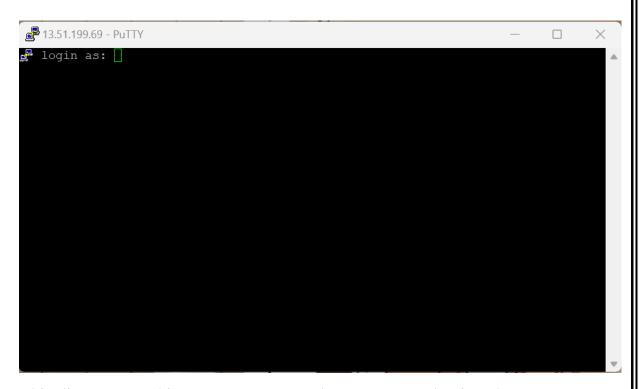
In putty under host name enter the Public IPv4 address.



Under Auth in private key file for authentication browse and add the PuTTY Private Key File (.ppk) named richahs-linux.



After browsing click on Open button



This directs us to this screen now enter the User name that is ec2-user



Ater successful login it authenticates and now we can enter any commands.

# SCREENSHOTS FROM puTTY-commands

### • pwd:

pwd is used to present working directory, this gave the output /home/ec2-user

### • mkdir:

The mkdir (**make directory**) command creates a new directory in the provided location. I have created a directory called new\_directory.

#### • 1s:

The ls command (list) prints a list of the current directory's contents. Therefore we got the directory created display as output.

```
lecture letter 172-31-30-10 % ] $ 18
new_directory
[ec2-user@ip-172-31-38-16 ~] $ touch new_file.txt
[ec2-user@ip-172-31-38-16 ~] $ touch file.txt
[ec2-user@ip-172-31-38-16 ~] $ touch file.txt
[ec2-user@ip-172-31-38-16 ~] $ ls
file.txt new_directory new_file.txt
[ec2-user@ip-172-31-38-16 ~] $ cat new_file.txt
```

#### touch:

- The touch command's primary purpose is to modify an existing file's timestamp. The command creates an empty file if it does not exist. Due to this effect, touch is also a quick way to make a new file (or a batch of files).
- Here I have created a txt file called new\_file first then a second txt file called file\_txt.
- Using Is command we can find where these files have been created.

#### • cat:

- The cat command (concatenate) displays the contents of a file in the terminal (standard output or stdout).
- To use the command, provide a file name from the current directory.
- Here I provide the txt file called new\_file.txt.

#### • echo:

- The echo command to print arguments to the terminal.
- Here I have used echo "hello this is the content in new file.txt".
- The >> operator redirects output to a file.

Later I use cat to find the content in new\_file.txt. Therefore we can see that "hello this is the content in new\_file.txt" has been added to new\_file.txt

```
[ec2-user@ip-172-31-38-16 ~]$ cat new file.txt
hello this is the content in new file.txt
[ec2-user@ip-172-31-38-16 ~]$ cat file.txt
[ec2-user@ip-172-31-38-16 ~]$ cat file.txt
[ec2-user@ip-172-31-38-16 ~]$ cat file.txt
hello this is the content in new file.txt
hello this is the content in new file.txt
[ec2-user@ip-172-31-38-16 ~]$ echo "after copying contents from new file i am adding a new line into file .txt" >> file.txt
[ec2-user@ip-172-31-38-16 ~]$ cat file.txt
hello this is the content in new file.txt
hello this is the content in new file.txt
after copying contents from new file i am adding a new line into file .txt
[ec2-user@ip-172-31-38-16 ~]$ [
```

cat file.txt is executed to show that there is no content in file.txt.

# cp:

- The main way to copy files and directories in Linux is through the cp (copy) command. cp <source file> <target file>.
- The source and target files must have different names since the command copies in the same directory. Provide a path before the file name to copy to another location.
- Here we are copying the content of new\_file.txt into file.txt using cp [cp new\_file.txt file.txt]
- Then when we use cat on file.txt it shows "hello this is the content in new\_file.txt" so content is successfully copied.
- Now we make use of echo and >> to add a new line in file.txt i.e "after copying contents from new\_file I am adding a new line into file.txt".
- Now when cat is used on file.txt both are lines are given as output.

	Assignment GitHub Link:					
	https://github.com/richasalian/BDA-assignment-1					
12   P	a g e					