

## AWS Assignment

1]Log in : First of all we have to log in into AWS account by using email id and password.



### Sign in

☒ **Root user**

Account owner that performs tasks requiring unrestricted access. [Learn more](#)

☐ **IAM user**

User within an account that performs daily tasks. [Learn more](#)

**Root user email address**

username@example.com

**Next**

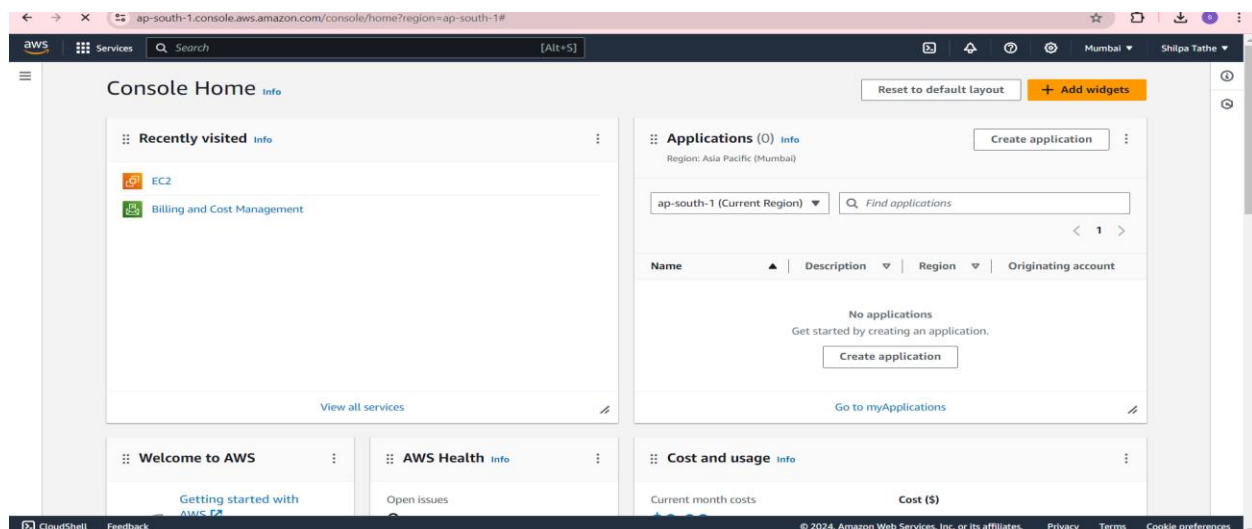
By continuing, you agree to the [AWS Customer Agreement](#) or other agreement for AWS services, and the [Privacy Notice](#). This site uses essential cookies. See our [Cookie Notice](#) for more information.

\_\_\_\_ New to AWS? \_\_\_\_

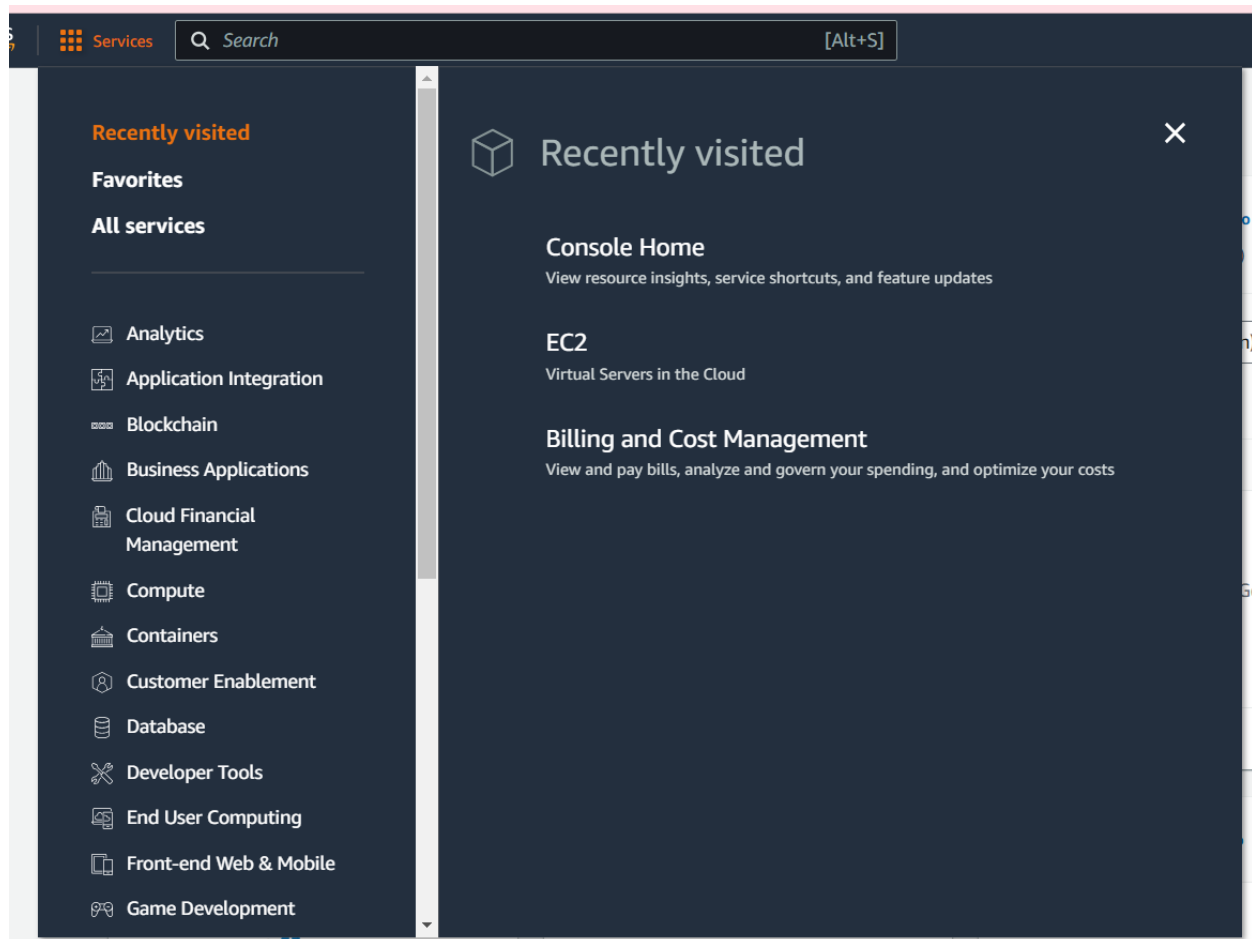
**Create a new AWS account**



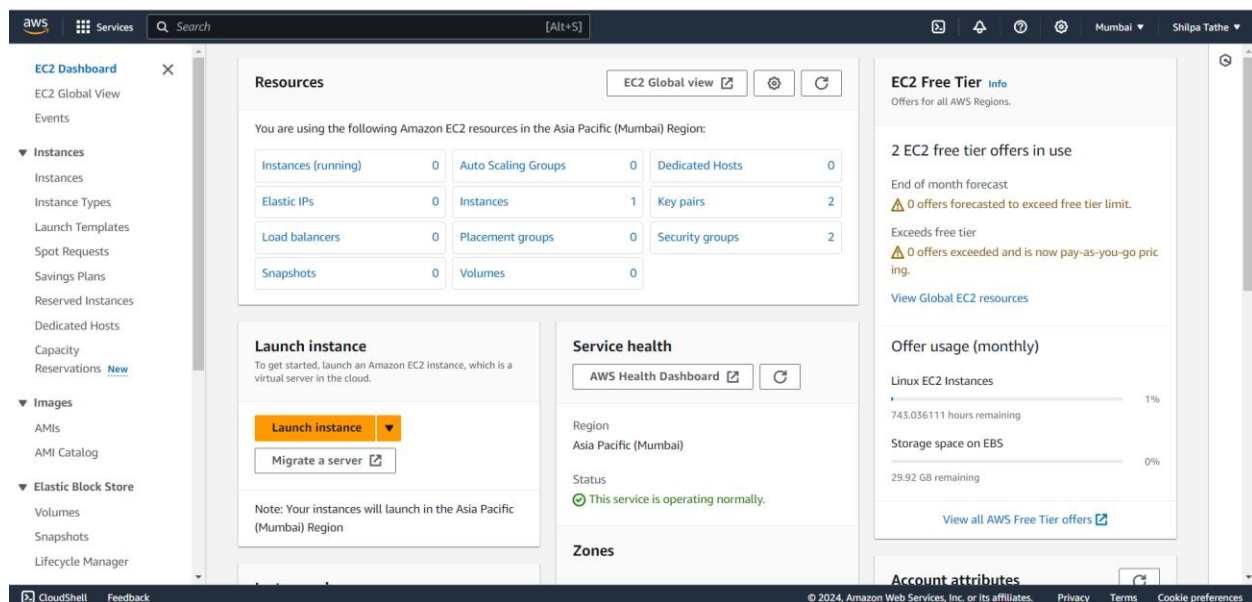
2]After log in ,open AWS console and below page will appear



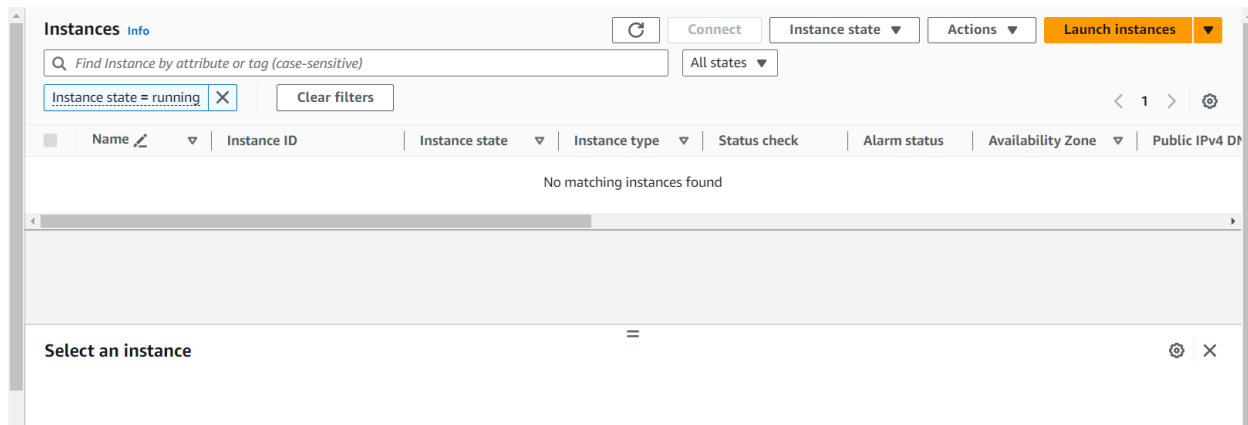
3]Click on services and select compute .After that click on EC2 Virtual Server



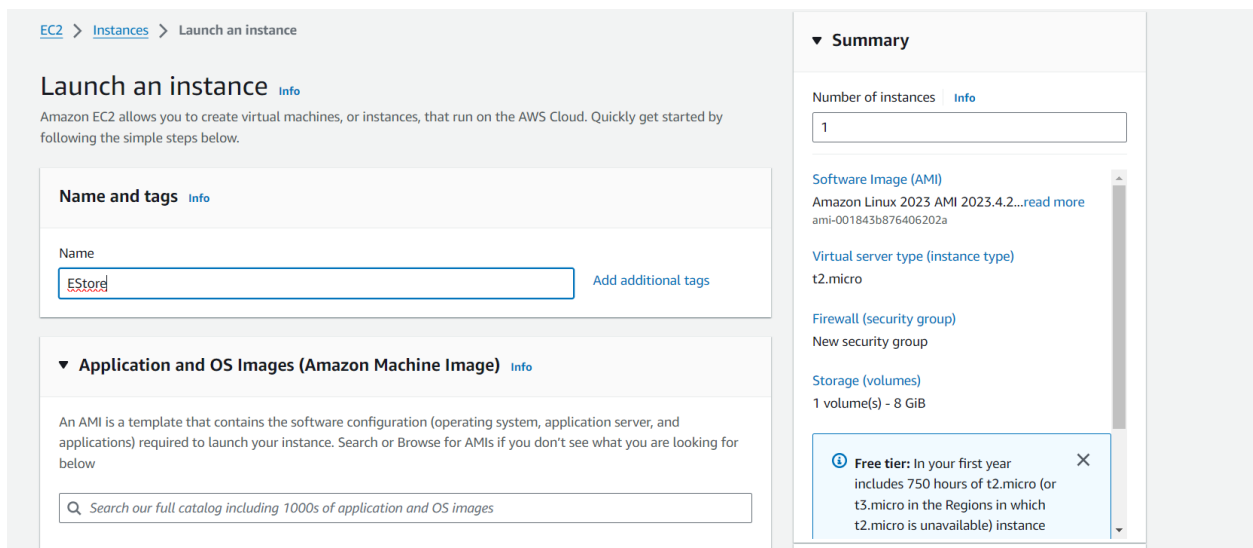
4]Click on instance(running)



5]After that new page will be seen where you have to click on “Launch instances”





Give name to your instance:

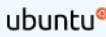



After that select ubuntu:


**Quick Start**


Amazon Linux  



macOS  


**Ubuntu**  


Windows  


Red Hat  


SUSE Li  


  
**Browse more AMIs**  
Including AMIs from AWS, Marketplace and the Community

**Amazon Machine Image (AMI)**

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type  
ami-007020fd9c84e18c7 (64-bit (x86)) / ami-09c443d9277298026 (64-bit (Arm))  
Virtualization: hvm   ENA enabled: true   Root device type: ebs

Free tier eligible ▼

**Description**

Canonical Ubuntu 22.04 LTS amd64 jammy image build on 2024-03-01


Create “Key pair” or you can use previously created Key pair:

▼ **Key pair (login)** [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

▼

 [Create new key pair](#)

After that click on “Launch instance” and your Instance will be created successfully!!

EC2 > Instances > Launch an instance

**Success**  
Successfully initiated launch of instance ([i-099e4271b71a77bd9](#))

▶ Launch log

**Next Steps**

🔍 What would you like to do next with this instance, for example "create alarm"

< 1 2 3 4 5 6 7 ... 11 >

6]Now you have to run the instance for that check the box of instance and click on connect:

Instances (1/1) [Info](#) [Refresh](#) [Connect](#) [Instance state ▼](#) [Actions ▼](#) [Launch instances ▼](#)

🔍 Find Instance by attribute or tag (case-sensitive) [All states ▼](#)

[Instance state = running](#) [Clear filters](#) < 1 > ⚙️

<input checked="" type="checkbox"/>	Name <a href="#">↗</a> ▼	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status	Availability Zone ▼	Public IP
<input checked="" type="checkbox"/>	EStore	i-099e4271b71a77bd9	Running <a href="#">🔍</a> <a href="#">🔍</a>	t2.micro	Initializing <a href="#">🕒</a>	<a href="#">View alarms +</a>	ap-south-1b	ec2-13-

After that new window will be there and on that you have to click on connect:

## Connect to instance Info

Connect to your instance i-099e4271b71a77bd9 (EStore) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-099e4271b71a77bd9 (EStore)

Connection Type

☒ Connect using EC2 Instance Connect

Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

☐ Connect using EC2 Instance Connect Endpoint

Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address

i-099e4271b71a77bd9 13.232.84.94

Username

Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

**Note:** In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

Connect

After that this window will come:

```
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-099e4271b71a77bd9&osUser=ubuntu&region=ap-south-1&sshPort=22#/  
aws Services Search [Alt+S]  
Usage of /: 20.4% of 7.57GB Users logged in: 0  
Memory usage: 20% IPv4 address for eth0: 172.31.3.79  
Swap usage: 0%  
Expanded Security Maintenance for Applications is not enabled.  
0 updates can be applied immediately.  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
ubuntu@ip-172-31-3-79:~$ git clone https://github.com/RaviTambade/tfistore  
i-099e4271b71a77bd9 (EStore)  
PublicIPs: 13.232.84.94 PrivateIPs: 172.31.3.79
```

7]Following steps are to create docker container:

- >git clone
- >cd tfistore
- >sudo apt update
- >sudo apt install npm

>npm install

```
aws Services Search [Alt+S] Mumbai Shilpa Tathe
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.7 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.4 kB]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.1 kB]
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [111.0 kB]
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.4 kB]
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.2 kB]
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1381 kB]
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [242 kB]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1744 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [294 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [848 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [162 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.2 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7588 B]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 31.0 MB in 6s (5337 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
52 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-3-79:~/tfllstore$ sudo apt install npm
```

Set the putty Setting like this:

The screenshot shows an AWS console terminal window with the following content:

```
npm WARN EBADENGINE package: 'jest-watcher@29.7.0',
npm WARN EBADENGINE required: { node: '^14.15.0 || ^16.10.0 || >=18.0.0' },
npm WARN EBADENGINE current: { node: 'v12.22.9', npm: '8.5.1' }
npm WARN EBADENGINE }
npm WARN EBADENGINE package: 'jest-worker@29.7.0',
npm WARN EBADENGINE required: { node: '^14.15.0 || ^16.10.0 || >=18.0.0' },
npm WARN EBADENGINE current: { node: 'v12.22.9', npm: '8.5.1' }
npm WARN EBADENGINE }
npm WARN EBADENGINE package: 'pretty-format@29.7.0',
npm WARN EBADENGINE required: { node: '^14.15.0 || ^16.10.0 || >=18.0.0' },
npm WARN EBADENGINE current: { node: 'v12.22.9', npm: '8.5.1' }
npm WARN EBADENGINE }
added 403 packages, and audited 404 packages in 23s
45 packages are looking for funding
  run 'npm fund' for details
4 vulnerabilities (3 moderate, 1 critical)
To address all issues, run:
  npm audit fix
Run 'npm audit' for details.
ubuntu@ip-172-31-3-79:~/tfllstore$
```

A PuTTY Configuration dialog box is overlaid on the terminal. The 'Category' list on the left has 'SSH' selected. The 'Basic options for your PuTTY session' tab is active, showing:

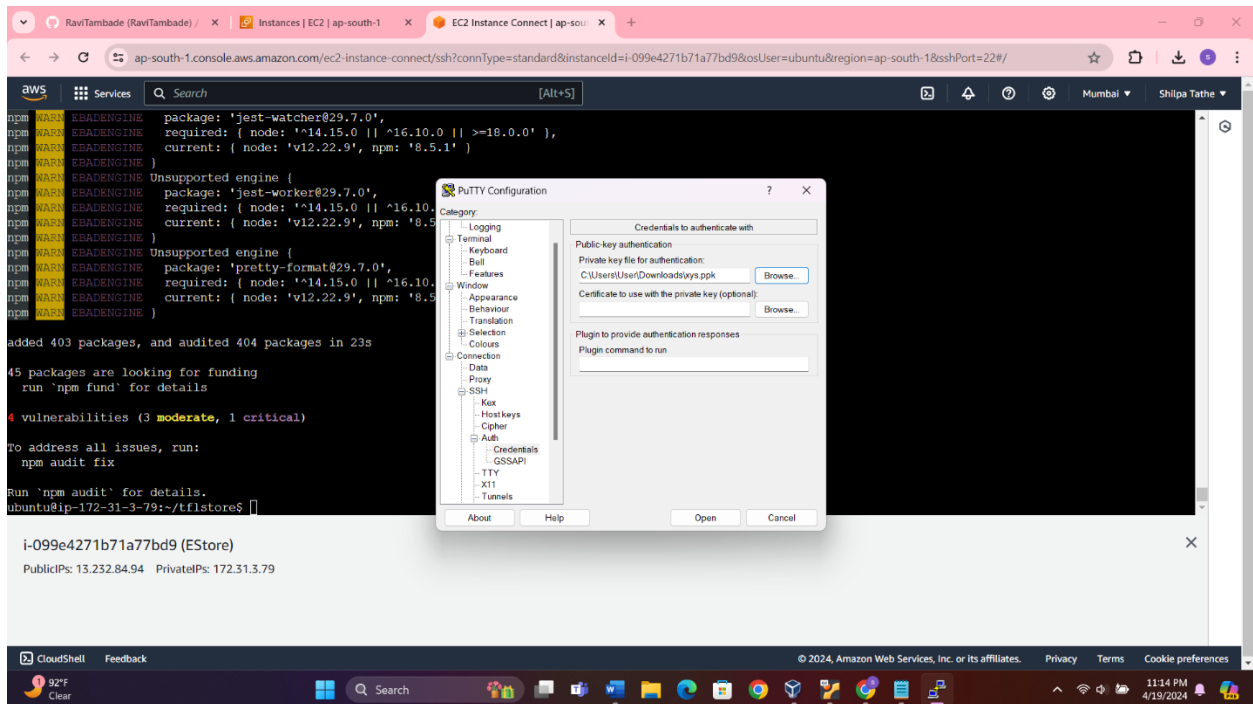
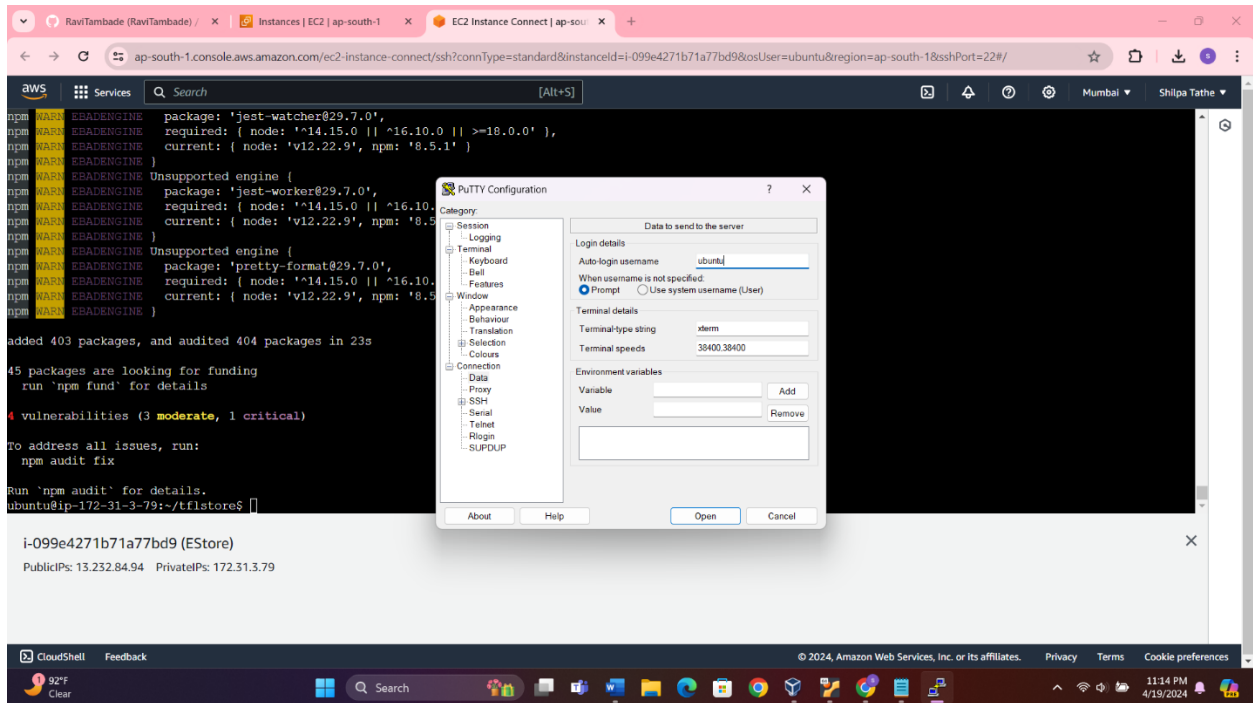
- Host Name (or IP address): 13.232.84.94
- Port: 22
- Connection type: SSH (selected), Serial, Other, Telnet
- Load, save or delete a stored session: Saved Sessions (empty list), Load, Save, Delete buttons
- Close window on exit: Always, Never, Only on clean exit (selected)

At the bottom of the dialog are 'About', 'Help', 'Open', and 'Cancel' buttons.

Below the terminal window, the AWS instance details are visible:

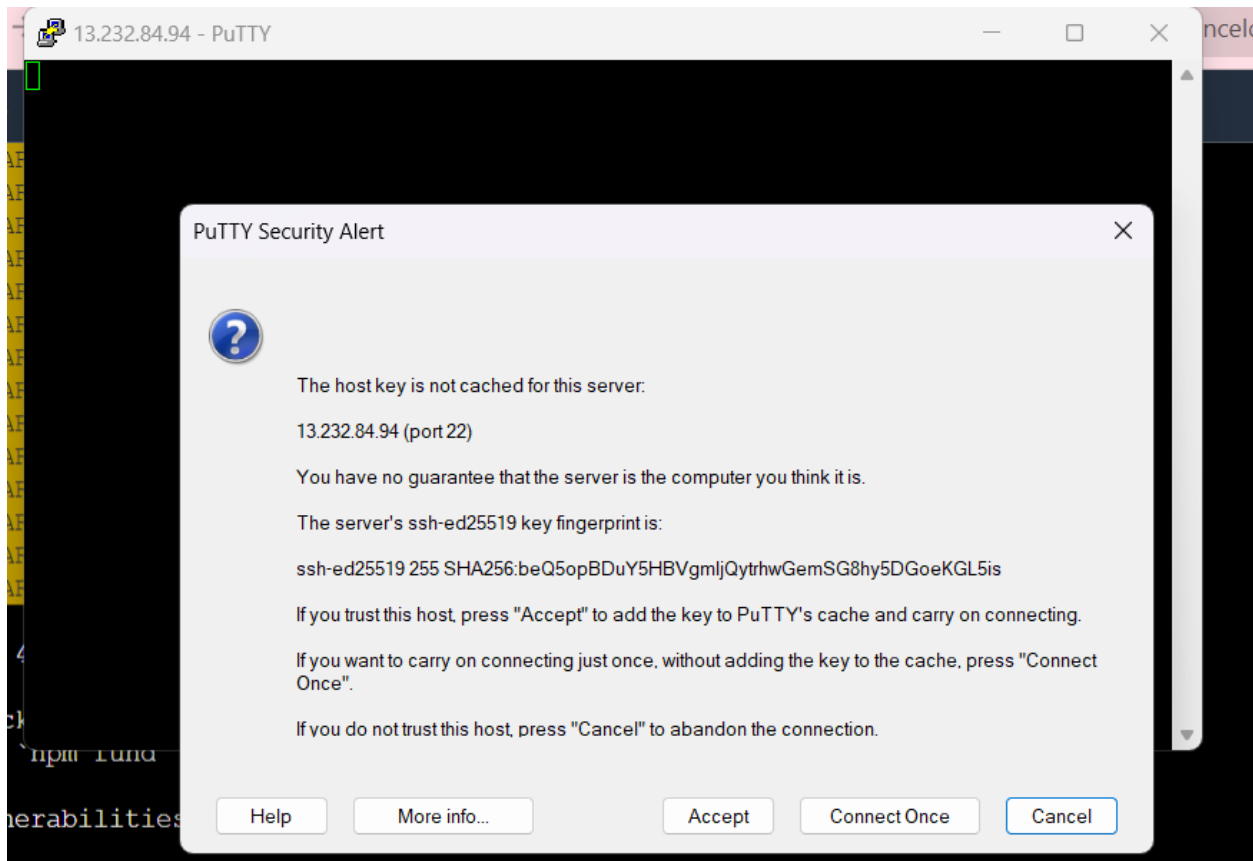
- Instance ID: i-099e4271b71a77bd9 (EStore)
- PublicIPs: 13.232.84.94 PrivateIPs: 172.31.3.79

The bottom of the image shows a Windows taskbar with the date 4/19/2024 and time 11:14 PM.





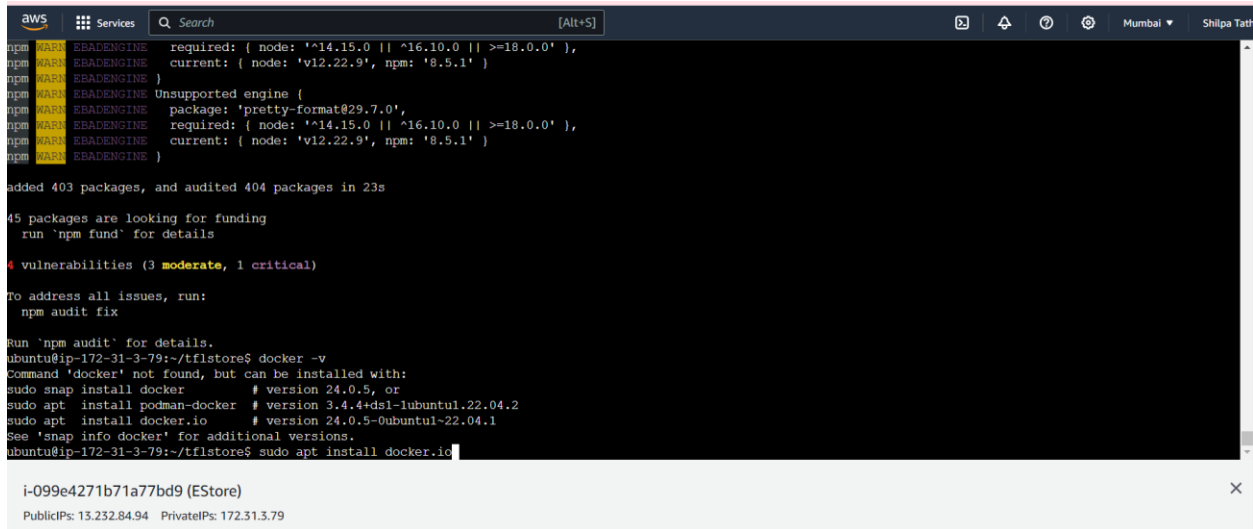
Click on accept:



Now see if docker already present or not .If it is not present then run command

>docker -v

>sudo apt install docker.io



Now to build image:

>sudo docker build -t bhagyaimages .

```
aws Services Search [Alt+S]
Build an image from a Dockerfile
ubuntu@ip-172-31-3-79:~/tflstore$ sudo docker build -t bhagyaimages .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
             Install the buildx component to build images with BuildKit:
             https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 132.2MB
Step 1/6 : FROM node:18
18: Pulling from library/node
609c73876867: Pull complete
7247ea8d81e6: Pull complete
be374d06f382: Pull complete
b4580645a8e5: Pull complete
dfc93b8f025c: Pull complete
1dec0eb05b3b: Pull complete
10fbb3ff8918: Pull complete
e6a367f8358b: Pull complete
Digest: sha256:bdbelcfff7e74208531a90ffcf3a32b1cb909d4720d9aa60b649b26b9e7ba439a5
Status: Downloaded newer image for node:18
--> b6bd2bb59dfb
Step 2/6 : WORKDIR /app
--> Running in 2be4d88658d3
Removing intermediate container 2be4d88658d3
--> c184e01afaf1
Step 3/6 : COPY package.json /app
--> 2d7f2cale264
Step 4/6 : RUN npm install
```

i-099e4271b71a77bd9 (EStore)  
PublicIPs: 13.232.84.94 PrivateIPs: 172.31.3.79

Now to create container:

>sudo docker run --name xyz -d -p 8003:8000 bhagyaimages

```
aws Services Search [Alt+S]
Step 4/6 : RUN npm install
--> Running in f6ded294aa0c
npm notice
npm notice New patch version of npm available! 10.5.0 -> 10.5.2
npm notice Changelog: <https://github.com/npm/cli/releases/tag/v10.5.2>
npm notice Run 'npm install -g npm@10.5.2' to update!
npm notice
added 492 packages, and audited 493 packages in 2m
51 packages are looking for funding
  run 'npm fund' for details
found 0 vulnerabilities
Removing intermediate container f6ded294aa0c
--> a0a3d491b10f
Step 5/6 : COPY . /app
--> 212deab61913
Step 6/6 : CMD node server.js
--> Running in c302d39d9834
Removing intermediate container c302d39d9834
--> 6218f846650e
Successfully built 6218f846650e
Successfully tagged bhagyaimages:latest
ubuntu@ip-172-31-3-79:~/tflstore$ sudo docker run --name xyz -d -p 8003:8000 bhagyaimages
63fb472de4b6877eb465a17c3552c15874e068df630ed401028bcd04bd99b3c
ubuntu@ip-172-31-3-79:~/tflstore$
```

i-099e4271b71a77bd9 (EStore)  
PublicIPs: 13.232.84.94 PrivateIPs: 172.31.3.79

Now set the setting of security:

Go to the security after click on edit inbound rule

The image consists of two screenshots from the AWS Management Console. The top screenshot shows the 'Instances' page with a table of EC2 instances. One instance, 'EStore' (ID: i-099e4271b71a77bd9), is in the 'Running' state. Below the table, the details for this instance are shown, including its public IPv4 address (13.232.84.94) and private IP address (172.31.3.79). The bottom screenshot shows the 'Security groups' page for the security group 'sg-0785cc906643322c8' (named 'launch-wizard-2'). It displays details such as the security group name, ID, description, owner, and rule counts. The 'Inbound rules' tab is selected, showing a single rule that allows SSH access (port 22) from the security group 'sg-022772bcdeab61f2f' over IPv4 using the TCP protocol.

**Instances (1/1) info**

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
EStore	i-099e4271b71a77bd9	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-13-232-84-9

**Instance: i-099e4271b71a77bd9 (EStore)**

**Instance summary info**

Instance ID	Public IPv4 address	Private IPv4 addresses
i-099e4271b71a77bd9 (EStore)	13.232.84.94 <a href="#">open address</a>	172.31.3.79
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-13-232-84-94.ap-south-1.compute.amazonaws.com <a href="#">open address</a>
Hostname type	Private IP DNS name (IPv4 only)	
IP name: ip-172-31-3-79.ap-south-1.compute.internal	ip-172-31-3-79.ap-south-1.compute.internal	

**sg-0785cc906643322c8 - launch-wizard-2**

**Details**

Security group name	Security group ID	Description	VPC ID
launch-wizard-2	sg-0785cc906643322c8	launch-wizard-2 created 2024-04-19T17:34:02.646Z	vpc-0db45d1631cc1b293 <a href="#">open address</a>
Owner	Inbound rules count	Outbound rules count	
211125563434	1 Permission entry	1 Permission entry	

**Inbound rules (1)**

Name	Security group rule...	IP version	Type	Protocol	Port range
-	sg-022772bcdeab61f2f	IPv4	SSH	TCP	22

Now set Type to All traffic and source to anywhere IPV4 and click on save rules:

EC2 > Security Groups > sg-0785cc906643322c8 - launch-wizard-2 > Edit inbound rules

### Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	
sgr-022772bcdeab61f2f	SSH	TCP	22	Anyw...		Delete
-	All traffic	All	All	Anyw...		Delete

[Add rule](#)

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#) [Preview changes](#) [Save rules](#)

8]Type a IP address in search bar with port number and finally website will open like this!!

← → ↻ Not secure 13.232.84.94:8003 ☆ 📄 📄 📄

## Welcome to Transflowwers

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### Mentor as a service

Teaching and learning is my passion

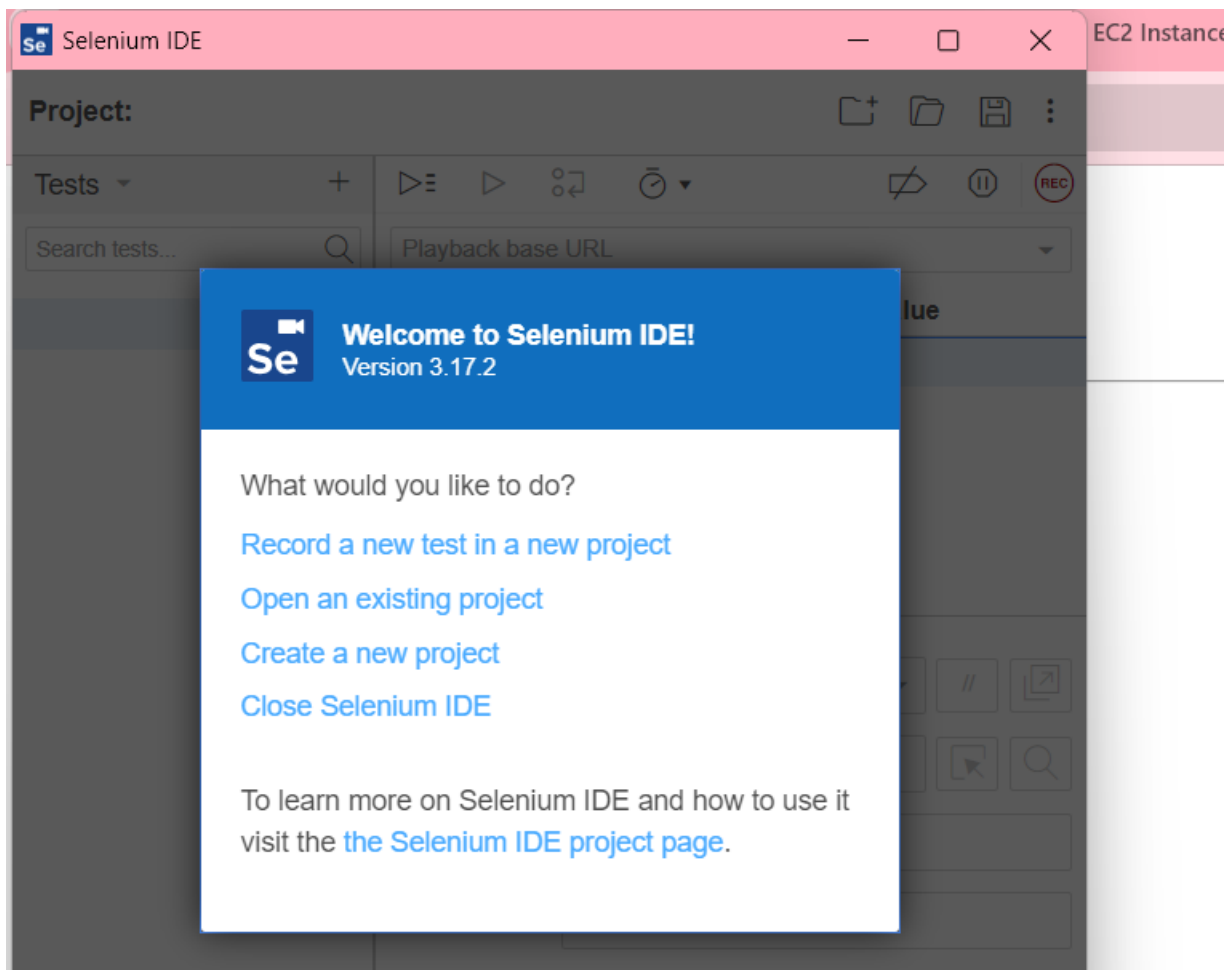
9]TESTING: Now for testing part

Download the selenium for chrome and add extension of it in chrome

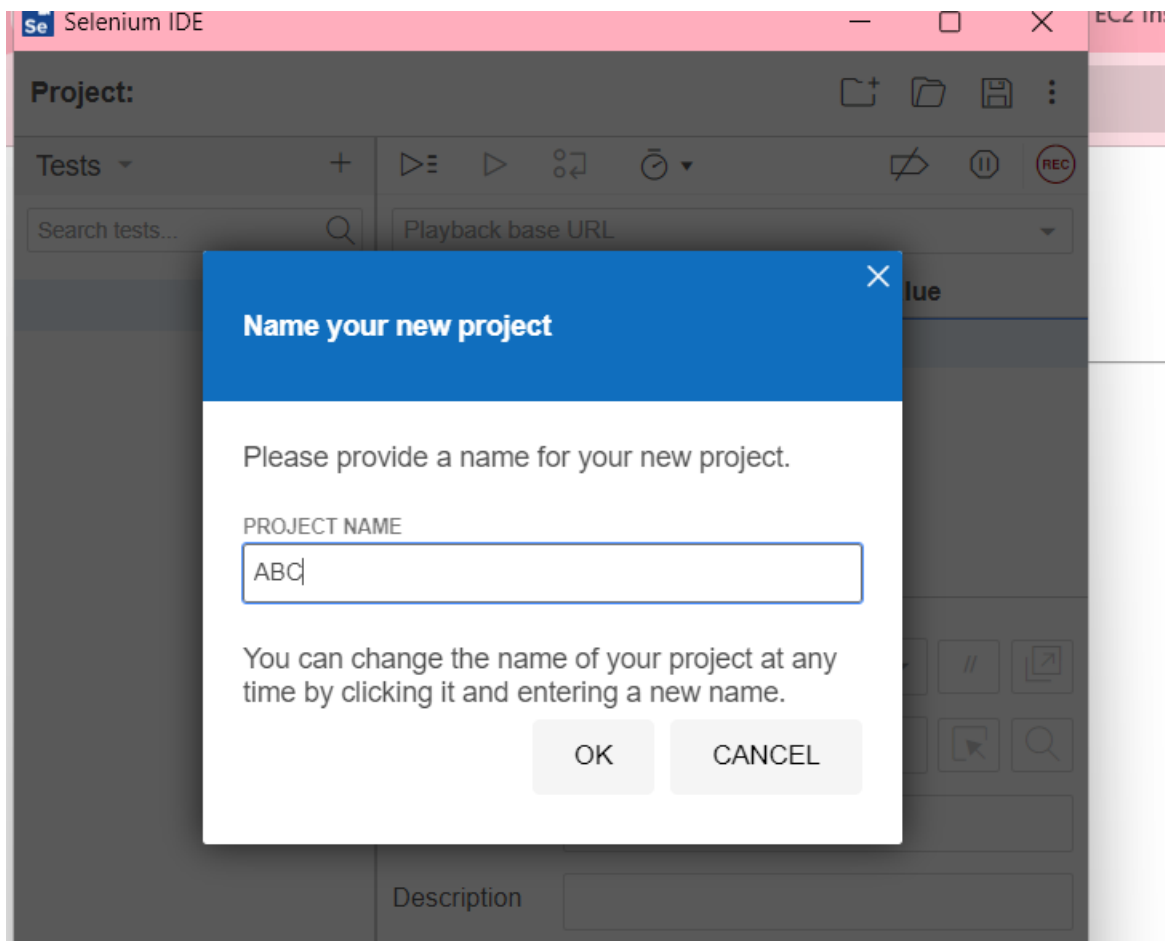
Double click on selenium IDE



Select first option: Record a new test in a new project



Set the Project name and click on OK



After that type a URL of website and click on start recording .

Now it will record all the steps you will perform in your website and after finishing the record click on stop button.

Selenium IDE - ABC\*

Project: ABC\*

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Tests ▾

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Stop recording Ctrl+U

⏹

Search tests... 🔍

http://13.232.84.94:8003 ▾

Untitled\*

	Command	Target	Value
8	click	linkText=Abo ut us	
9	click	linkText=Cont act us	
10	click	linkText=Gall ery	
11	click	id=2	

Command

//

🔗

Target

🔗

🔍

Value

Description

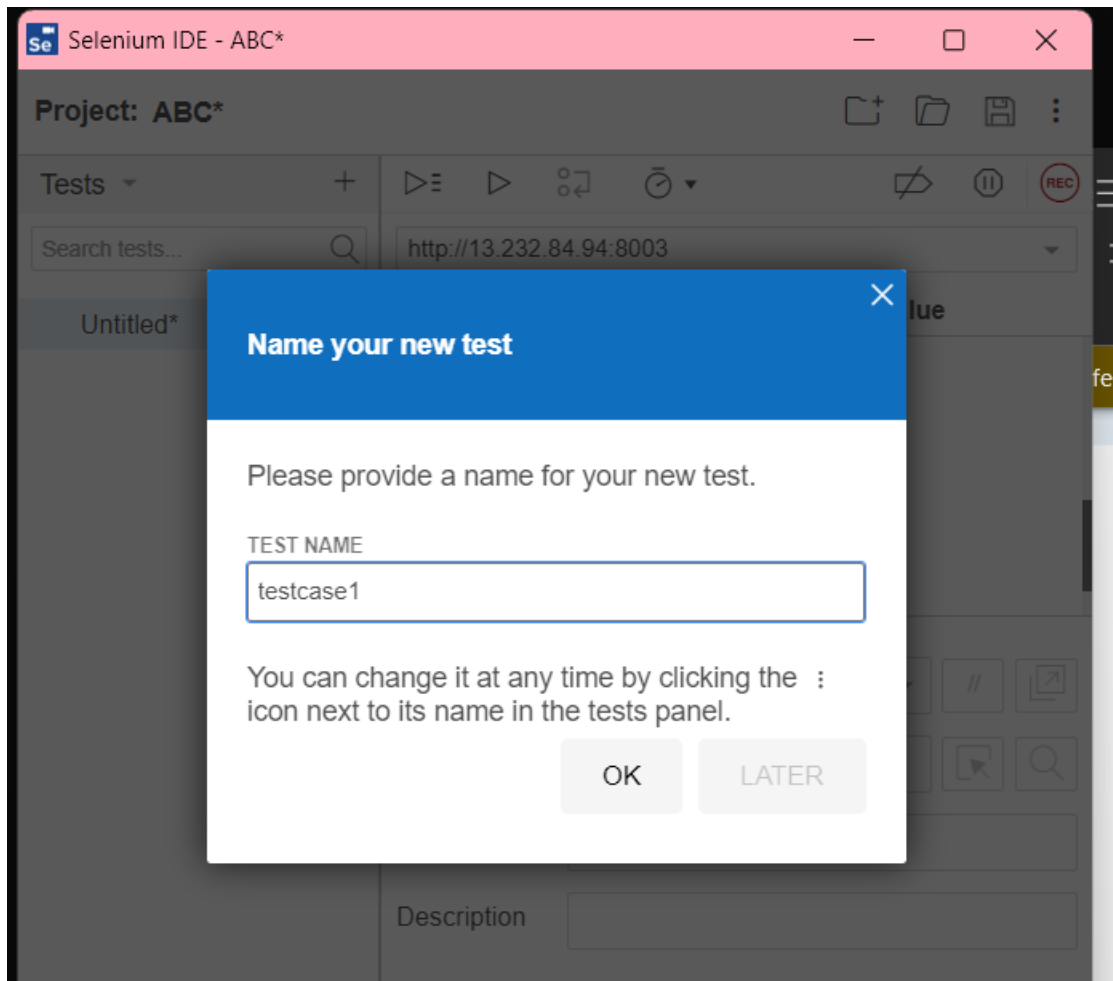
Log

Reference

🔕



Now give the name to your test case and click on ok



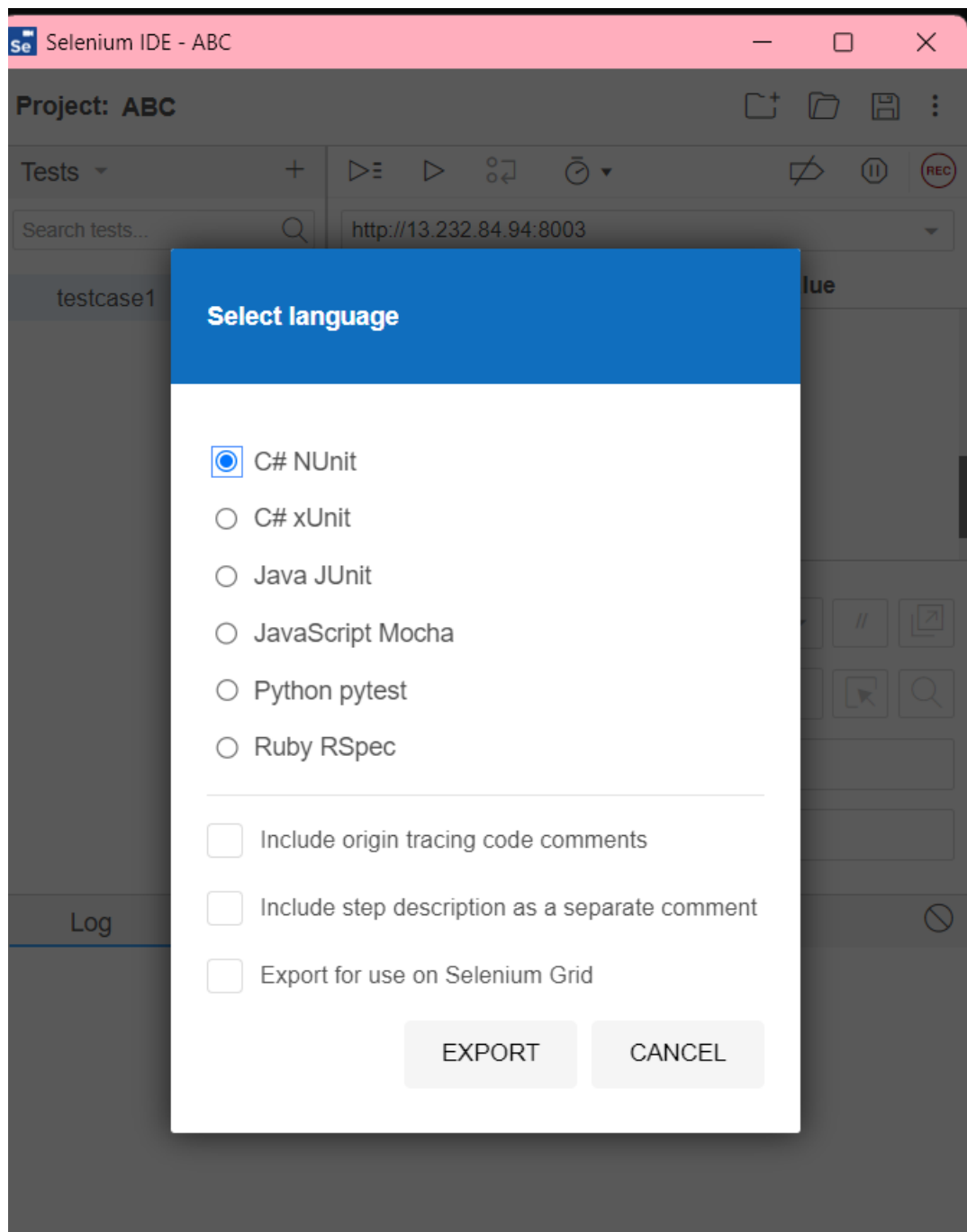
And the last if you want your test case in any language then right click on testcase and select EXPORT

Option and after that select language in which you want your test case code.

If you want to include comments in your code then check the boxes you want.

And at the end click on EXPORT.

Your file will be created successfully!!!



Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More

Testcase1Test.cs x Release Notes: 1.88.1

C:\> Users > User > Downloads > Testcase1Test.cs

```
1 // Generated by Selenium IDE
2 using System;
3 using System.Collections;
4 using System.Collections.Generic;
5 using System.Linq;
6 using System.Threading;
7 using OpenQA.Selenium;
8 using OpenQA.Selenium.Chrome;
9 using OpenQA.Selenium.Firefox;
10 using OpenQA.Selenium.Remote;
11 using OpenQA.Selenium.Support.UI;
12 using OpenQA.Selenium.Interactions;
13 using NUnit.Framework;
14 [TestFixture]
15 public class Testcase1Test {
16     private IWebDriver driver;
17     public IDictionary<string, object> vars {get; private set;}
18     private IJavaScriptExecutor js;
19     [SetUp]
20     public void SetUp() {
21         driver = new ChromeDriver();
22         js = (IJavaScriptExecutor)driver;
23         vars = new Dictionary<string, object>();
24     }
25     [TearDown]
26     protected void TearDown() {
27         driver.Quit();
28     }
29     [Test]
30     public void testcase1() {
31         // Test name: testcase1
32         // Step # | name | target | value
33         // 1 | open | / |
34         driver.Navigate().GoToUrl("http://13.232.84.94:8003/");
35         // 2 | setWindowSize | 786x816 |
36         driver.Manage().Window.Size = new System.Drawing.Size(786, 816);
```

Project: ABC

Tests +

Search tests...

testcase1

Command	Target	Value
✓ set window size	786x816	
✓ click	linkText=Gallery	
✓ click	id=1	
✓ click	css=button	
✓ click	css=id:nth-child(1) > input	
✓ click	linkText=Gallery	
✓ click	linkText=About us	
✓ click	linkText=Contact us	
✓ click	linkText=Gallery	
✓ click	id=2	

Command

Target

Value

Description

LogReference

6. click on css=id:nth-child(1) > input OK	23:42
7. click on linkText=Gallery OK	23:42
8. click on linkText=About us OK	23:42
9. click on linkText=Contact us OK	23:42
10. click on linkText=Gallery OK	23:42
11. click on id=2 OK	23:42
'testcase1' completed successfully	23:42

