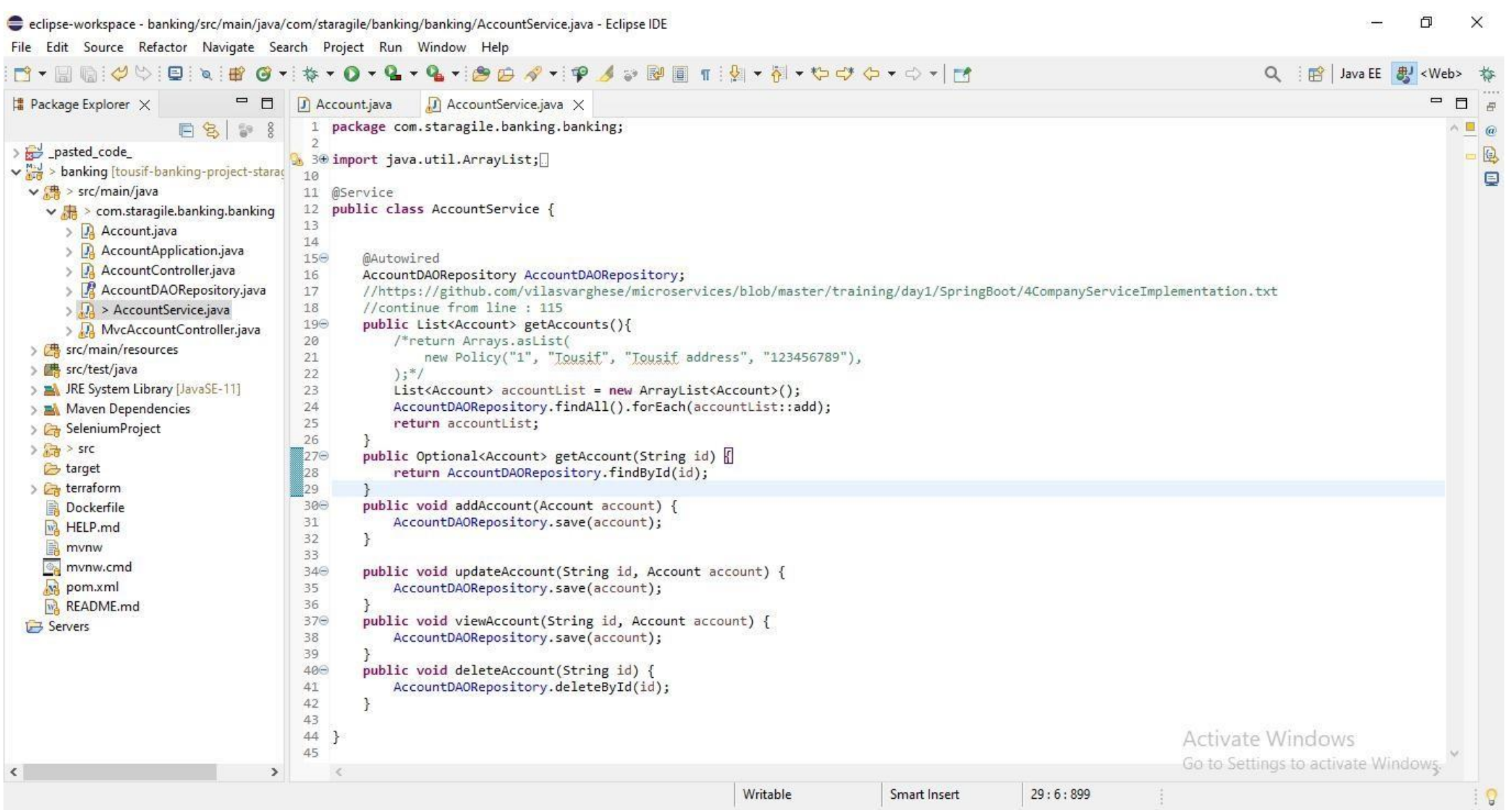
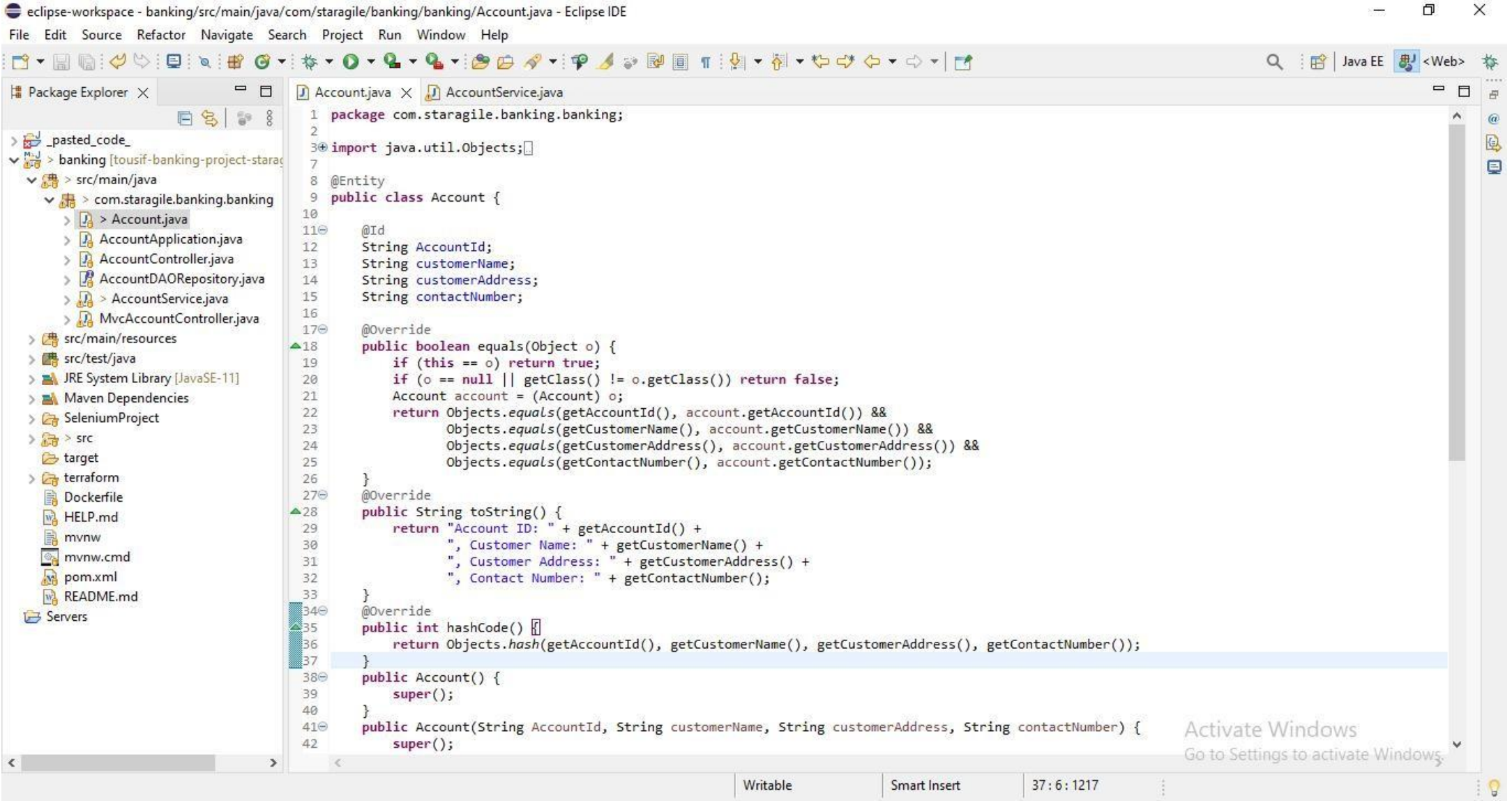
PROJECT

Banking and Finance Domain

- Write a code for banking application

VINAY P


eclipse-workspace - banking/src/main/java/com/staragile/banking/banking/AccountService.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Java EE
<Web>
Package Explorer
_pasted_code_
banking [tousif-banking-project-stara
src/main/java
com.staragile.banking.banking
Account.java
AccountApplication.java
AccountController.java
AccountDAORepository.java
AccountService.java
MvcAccountController.java
src/main/resources
src/test/java
JRE System Library [JavaSE-11]
Maven Dependencies
SeleniumProject
src
target
terraform
Dockerfile
HELP.md
mvnw
mvnw.cmd
pom.xml
README.md
Servers
Account.java
AccountService.java
1 package com.staragile.banking.banking;
2
3 import java.util.ArrayList;
10
11 @Service
12 public class AccountService {
13
14
15 @Autowired
16 AccountDAORepository AccountDAORepository;
17 //https://github.com/vilasvarghese/microservices/blob/master/training/day1/SpringBoot/4CompanyServiceImplementation.txt
18 //continue from line : 115
19 public List<Account> getAccounts(){
20 /*return Arrays.asList(
21 new Policy("1", "Tousif", "Tousif address", "123456789"),
22);*/
23 List<Account> accountList = new ArrayList<Account>();
24 AccountDAORepository.findAll().forEach(accountList::add);
25 return accountList;
26 }
27 public Optional<Account> getAccount(String id) {
28 return AccountDAORepository.findById(id);
29 }
30 public void addAccount(Account account) {
31 AccountDAORepository.save(account);
32 }
33
34 public void updateAccount(String id, Account account) {
35 AccountDAORepository.save(account);
36 }
37 public void viewAccount(String id, Account account) {
38 AccountDAORepository.save(account);
39 }
40 public void deleteAccount(String id) {
41 AccountDAORepository.deleteById(id);
42 }
43
44 }
45
Activate Windows
Go to Settings to activate Windows.
Writable
Smart Insert
29 : 6 : 899


eclipse-workspace - banking/src/main/java/com/staragile/banking/banking/Account.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Java EE
<Web>
Package Explorer
_pasted_code_
banking [tousif-banking-project-staraç
src/main/java
com.staragile.banking.banking
Account.java
AccountApplication.java
AccountController.java
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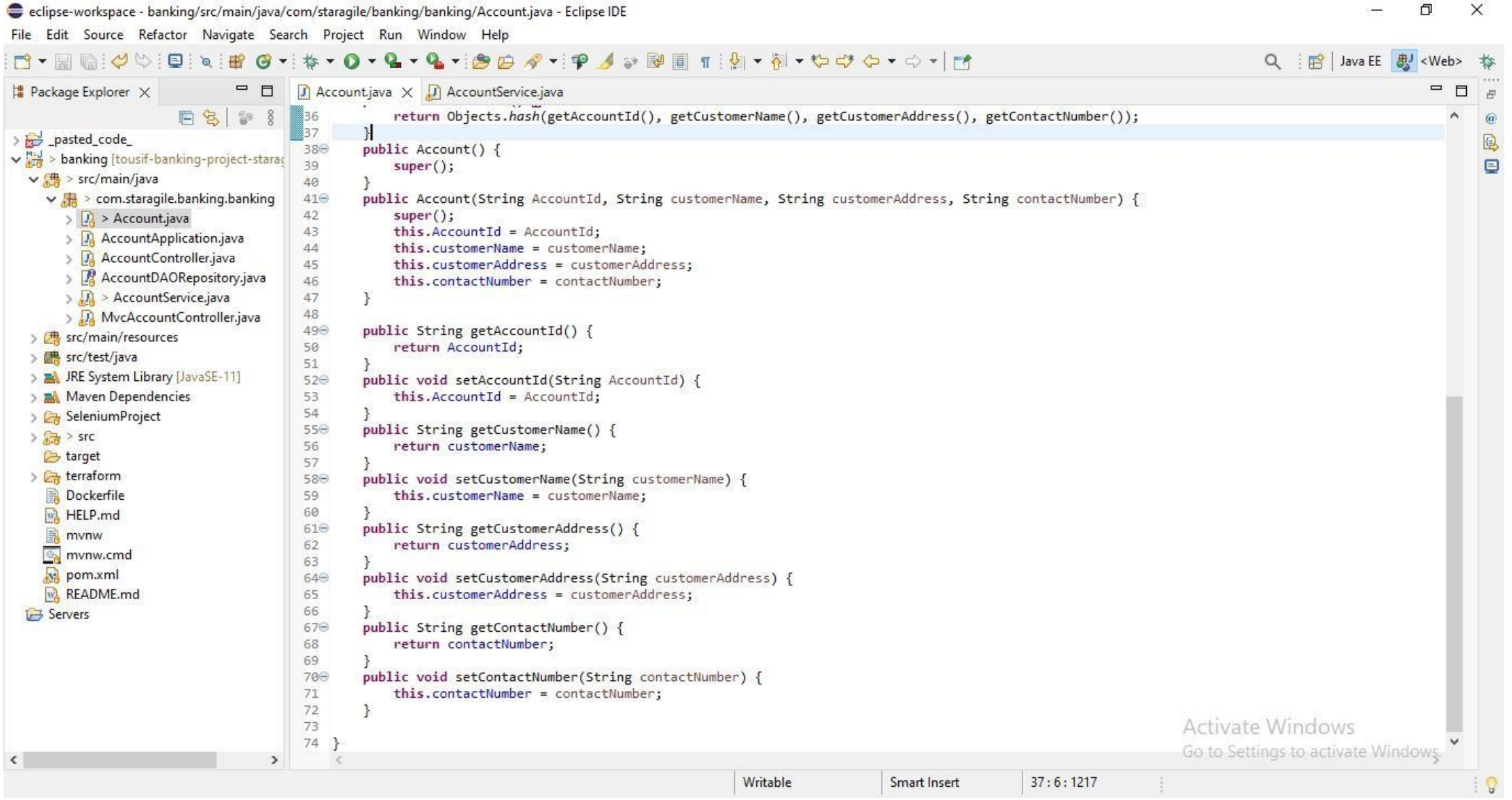
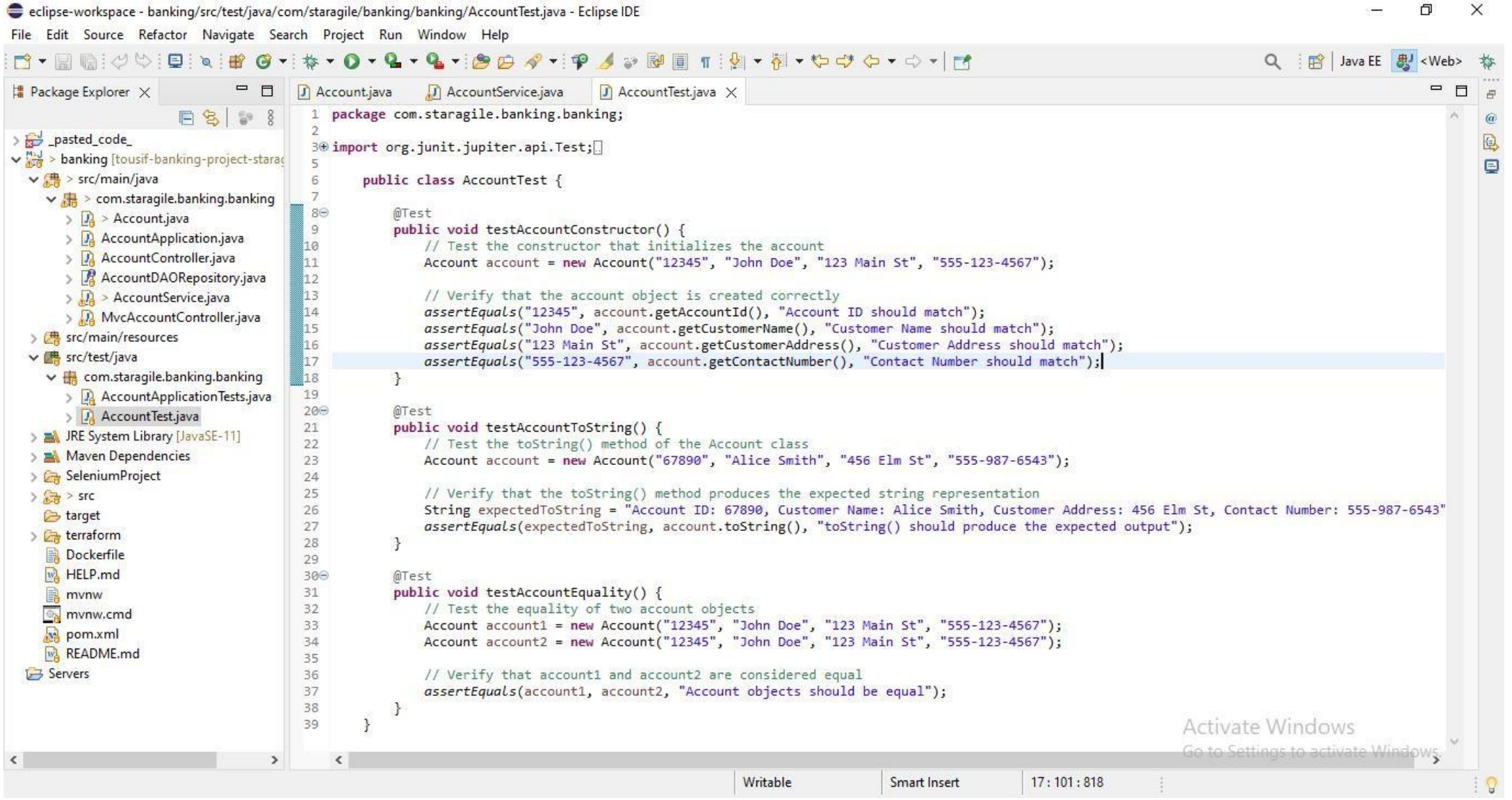
Maven Dependencies
SeleniumProject
src
target
terraform
Dockerfile
HELP.md
mvnw
mvnw.cmd
pom.xml
README.md
Servers
Account.java
AccountService.java
1 package com.staragile.banking.banking;
2
3 import java.util.Objects;
7
8 @Entity
9 public class Account {
10
11 @Id
12 String AccountId;
13 String customerName;
14 String customerAddress;
15 String contactNumber;
16
17 @Override
18 public boolean equals(Object o) {
19 if (this == o) return true;
20 if (o == null || getClass() != o.getClass()) return false;
21 Account account = (Account) o;
22 return Objects.equals(getAccountId(), account.getAccountId()) &&
23 Objects.equals(getCustomerName(), account.getCustomerName()) &&
24 Objects.equals(getCustomerAddress(), account.getCustomerAddress()) &&
25 Objects.equals(getContactNumber(), account.getContactNumber());
26 }
27 @Override
28 public String toString() {
29 return "Account ID: " + getAccountId() +
30 ", Customer Name: " + getCustomerName() +
31 ", Customer Address: " + getCustomerAddress() +
32 ", Contact Number: " + getContactNumber();
33 }
34 @Override
35 public int hashCode() {
36 return Objects.hash(getAccountId(), getCustomerName(), getCustomerAddress(), getContactNumber());
37 }
38 public Account() {
39 super();
40 }
41 public Account(String AccountId, String customerName, String customerAddress, String contactNumber) {
42 super();
Activate Windows
Go to Settings to activate Windows.
Writable
Smart Insert
37 : 6 : 1217

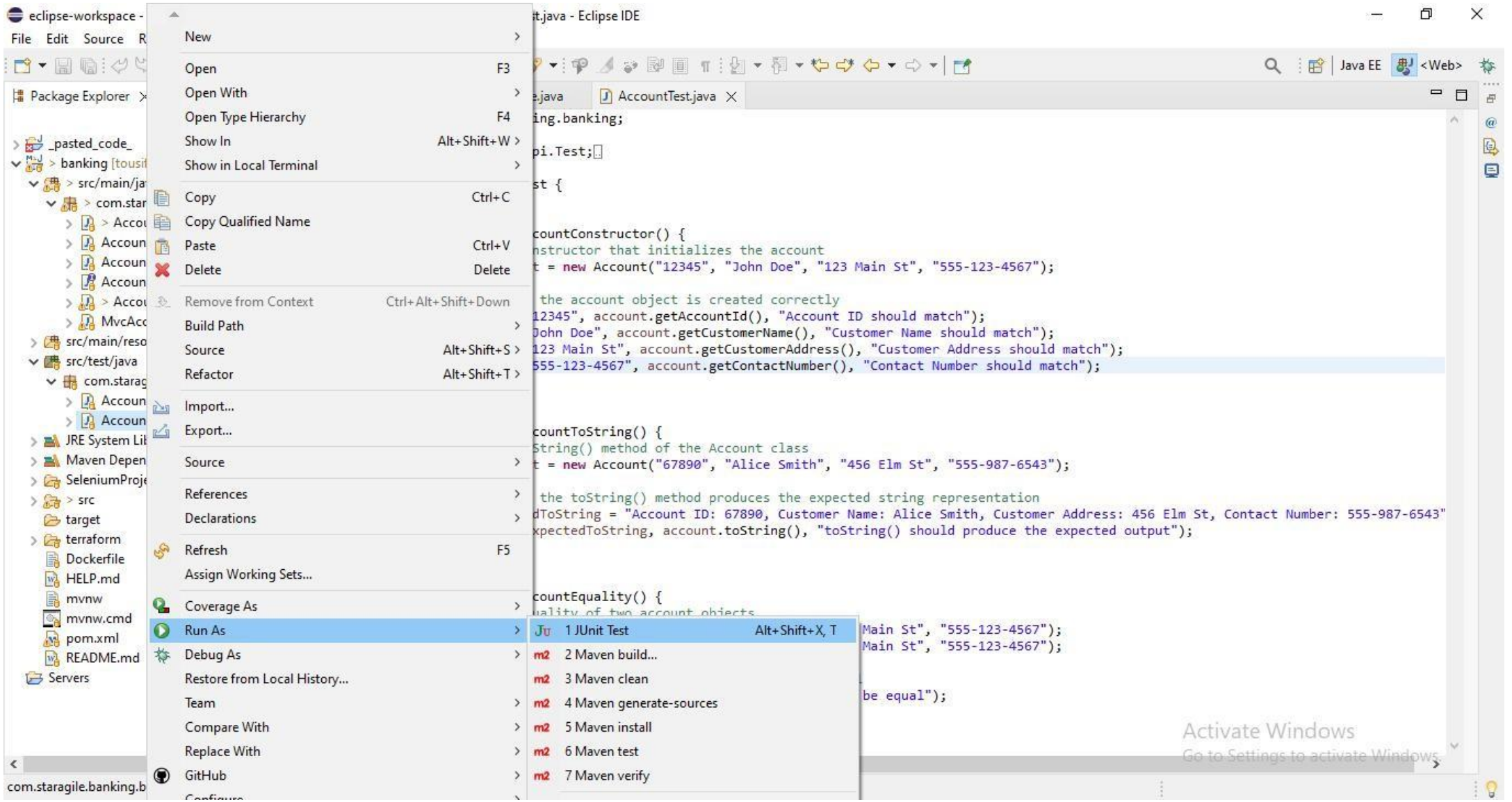
Same as above.



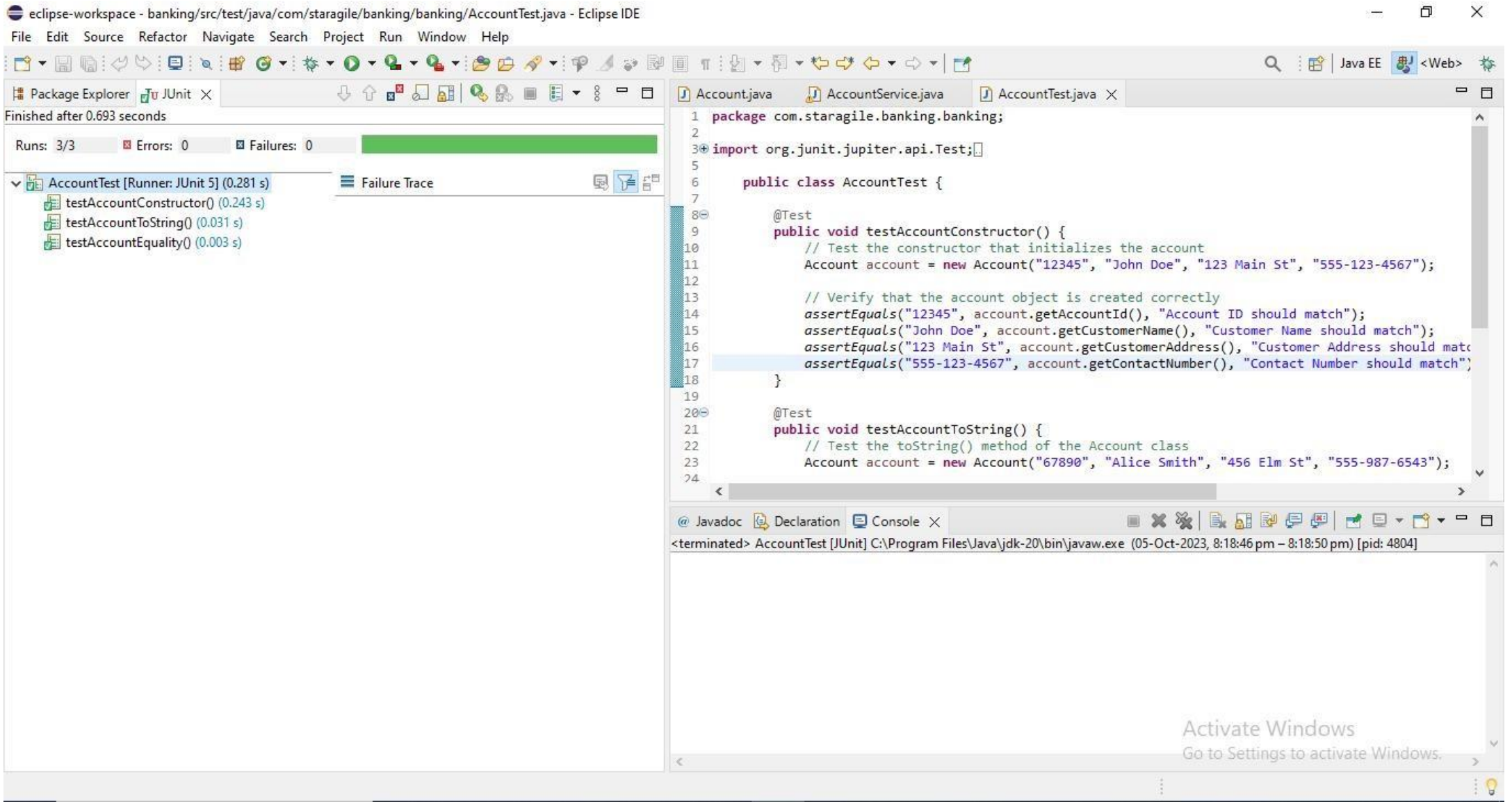
Write necessary Junit testcase.



Run the JUnit test.

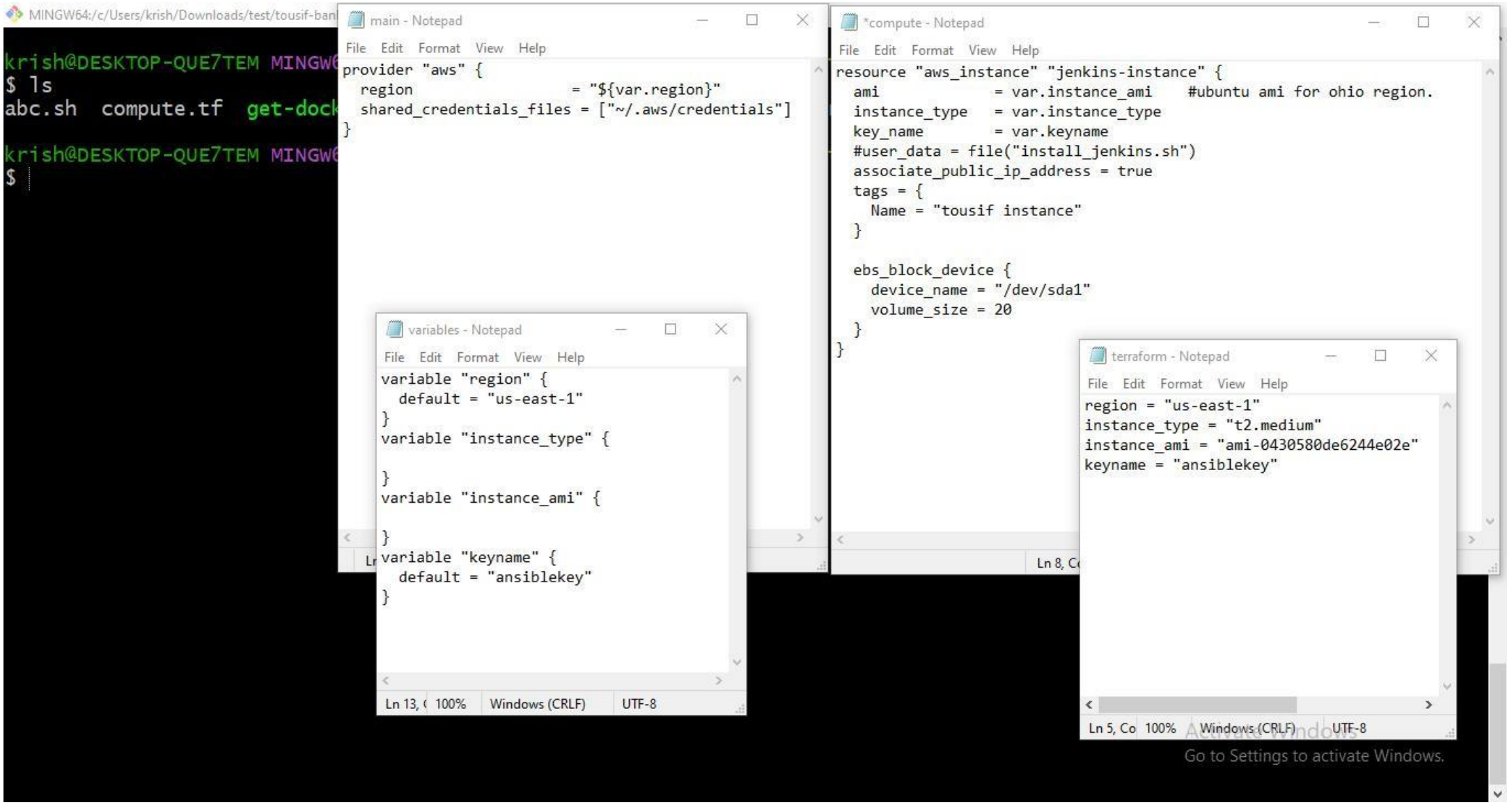


Showing the Junit test result.



Push your code into your GitHub Repository.

Write terraform file to create aws instance.



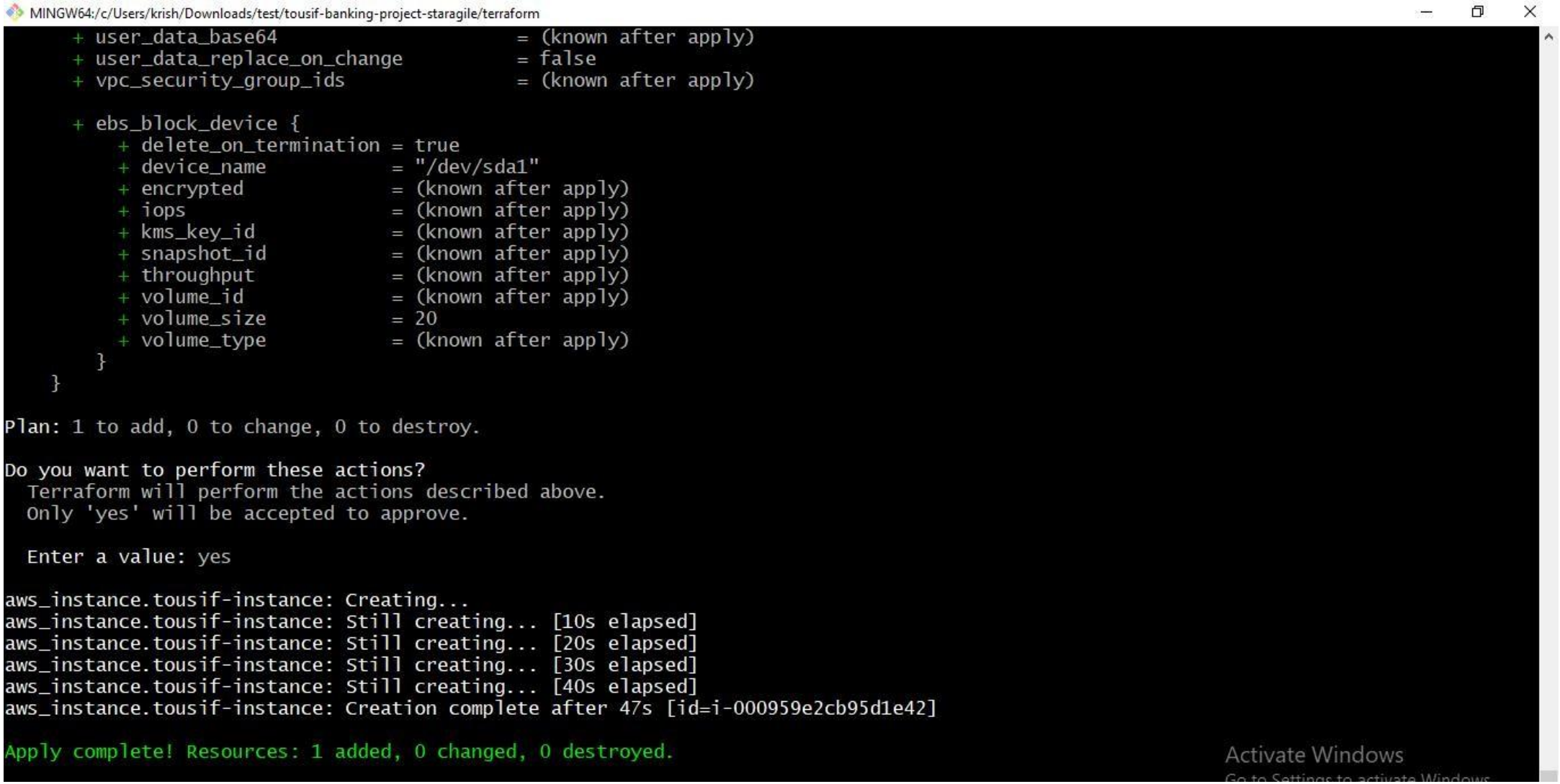
Create terraform local repo.

```
$ terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.19.0...
- Installed hashicorp/aws v5.19.0 (signed by HashiCorp)

Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
```

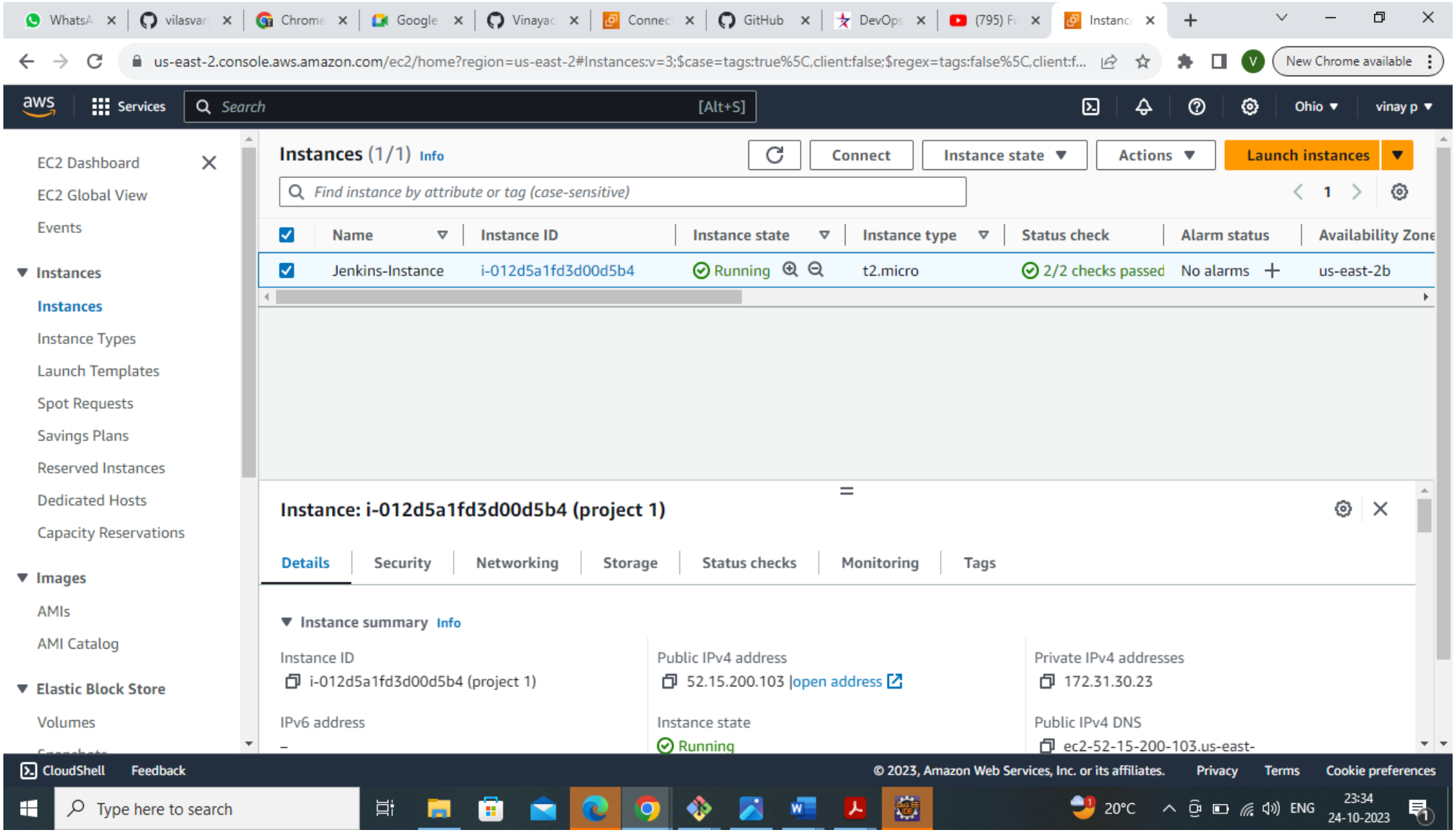
Terraform apply to create aws instance.

```
$ terraform apply

Terraform used the selected providers to generate the following execution
plan. Resource actions are indicated with the following symbols:
  + create

Terraform will perform the following actions:

  # aws_instance.tousif-instance will be created
  + resource "aws_instance" "tousif-instance" {
      + ami                                  = "ami-0430580de6244e02e"
      + arn                                  = (known after apply)
      + associate_public_ip_address          = true
      + availability_zone                    = (known after apply)
      + cpu_core_count                       = (known after apply)
      + cpu_threads_per_core                 = (known after apply)
      + disable_api_stop                     = (known after apply)
      + disable_api_termination              = (known after apply)
      + ebs_optimized                        = (known after apply)
      + get_password_data                    = false
      + host_id                              = (known after apply)
      + host_resource_group_arn              = (known after apply)
      + iam_instance_profile                 = (known after apply)
      + id                                   = (known after apply)
      + instance_initiated_shutdown_behavior = (known after apply)
      + instance_lifecycle                   = (known after apply)
      + instance_state                       = (known after apply)
      + instance_type                        = "t2.medium"
      + ipv6_address_count                   = (known after apply)
      + ipv6_addresses                       = (known after apply)
      + key_name                             = "ansiblekey"
      + monitoring                           = (known after apply)
      + outpost_arn                          = (known after apply)
      + password_data                        = (known after apply)
      + placement_group                      = (known after apply)
      + placement_partition_number           = (known after apply)
```

Same as above.



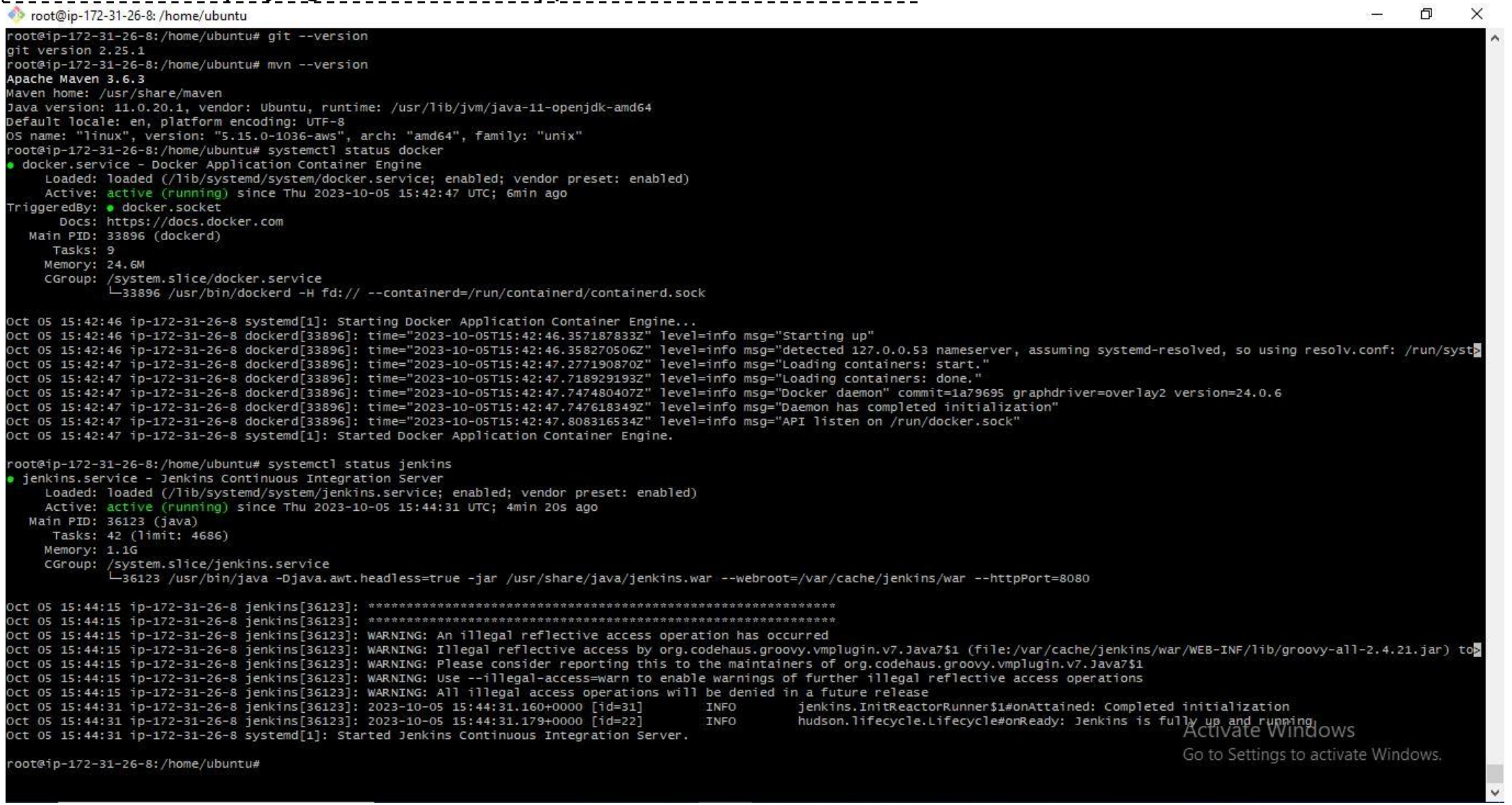
Instance create.



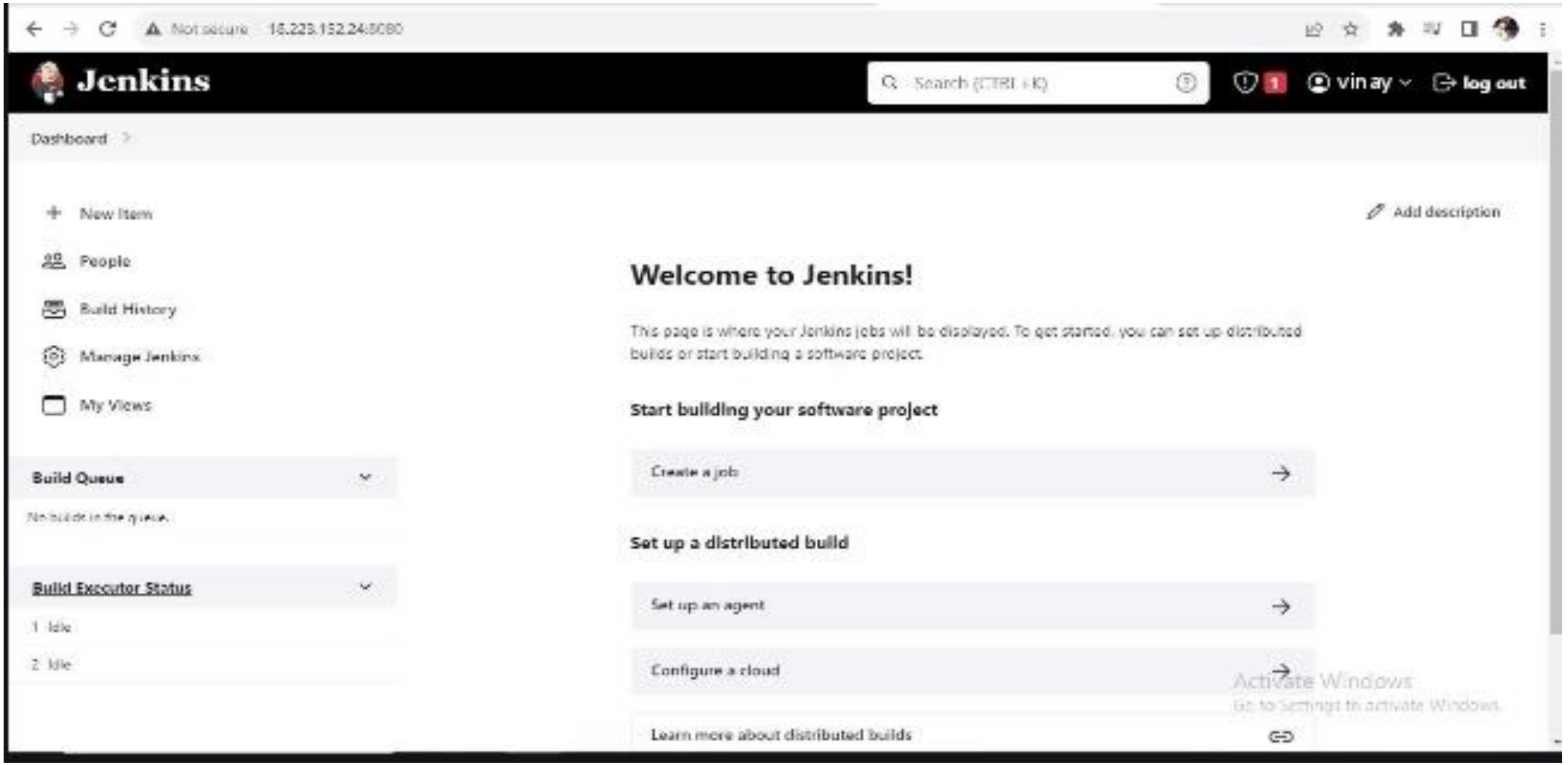
Logged in instance.

```
$ ssh -i "ansiblekey.pem" ubuntu@ec2-18-223-152-24.us-east-2.compute.amazonaws.com
The authenticity of host 'ec2-18-223-152-24.us-east-2.compute.amazonaws.com (18.223.152.24)' can't be established.
ED25519 key fingerprint is SHA256:c5zw8okJGKZL7IU8qO8o7q5luc2XQVOUlVoFJRElyT8.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-18-223-152-24.us-east-2.compute.amazonaws.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1036-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Thu Oct  5 15:37:57 UTC 2023

  System load:  0.18              Processes:             115
  Usage of /:   8.3% of 19.20GB   Users logged in:       0
  Memory usage: 6%                IPv4 address for eth0: 172.31.26.8
  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-172-31-26-8:~$
```

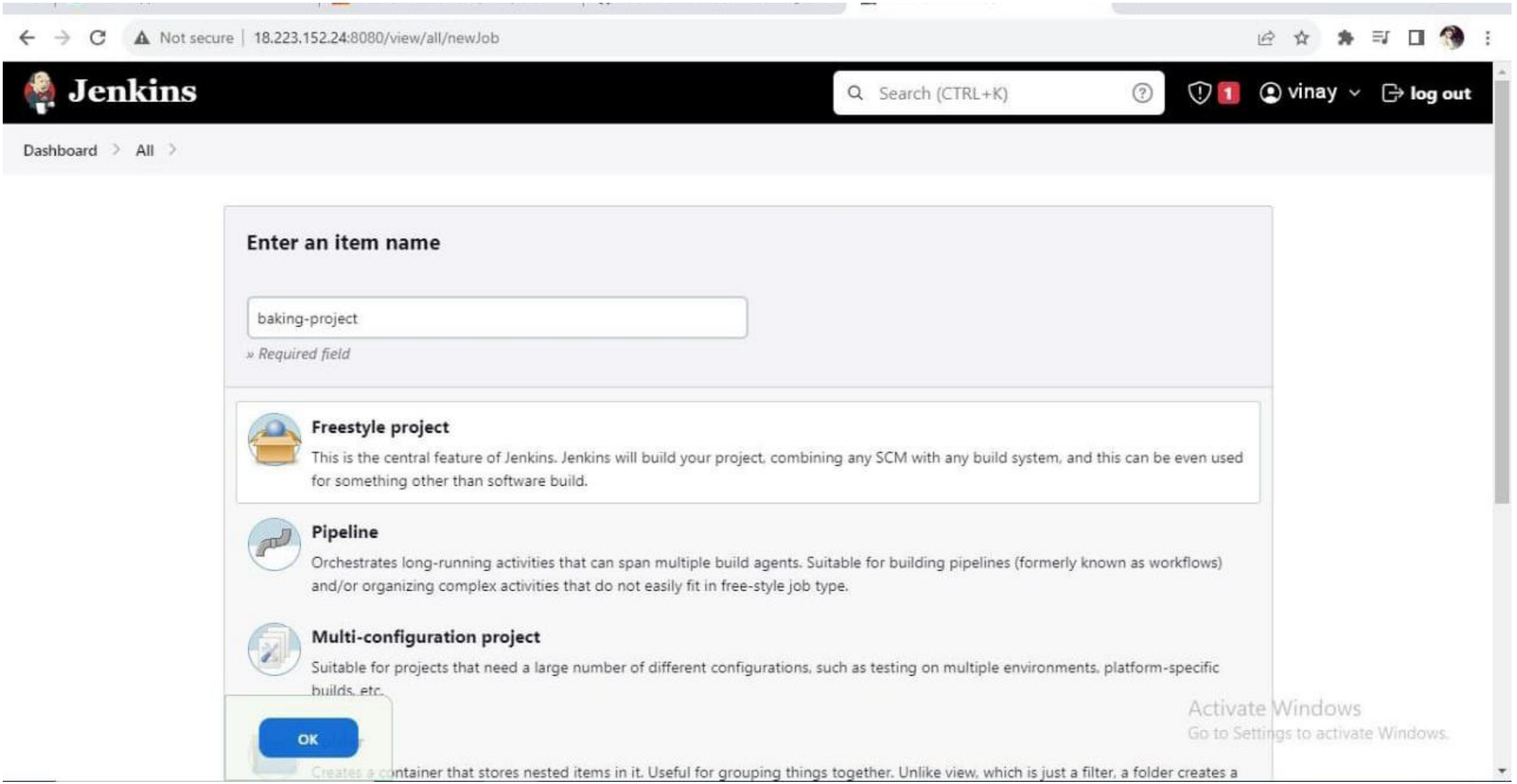
Git - For version control for tracking changes in the code files
Maven – For Continuous Build
Jenkins - For continuous integration and continuous deployment
Docker - For deploying containerized applications



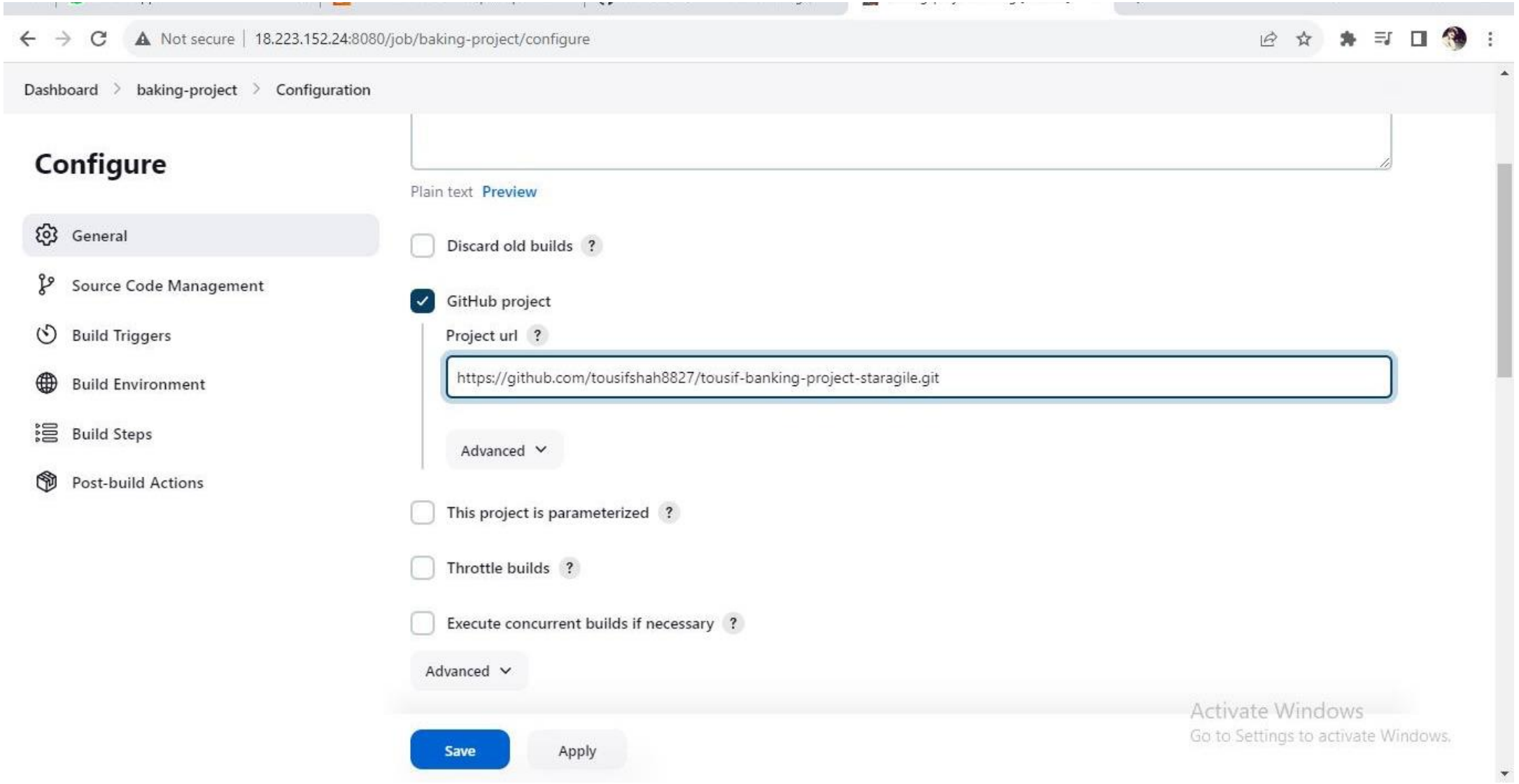
Open jenkins.



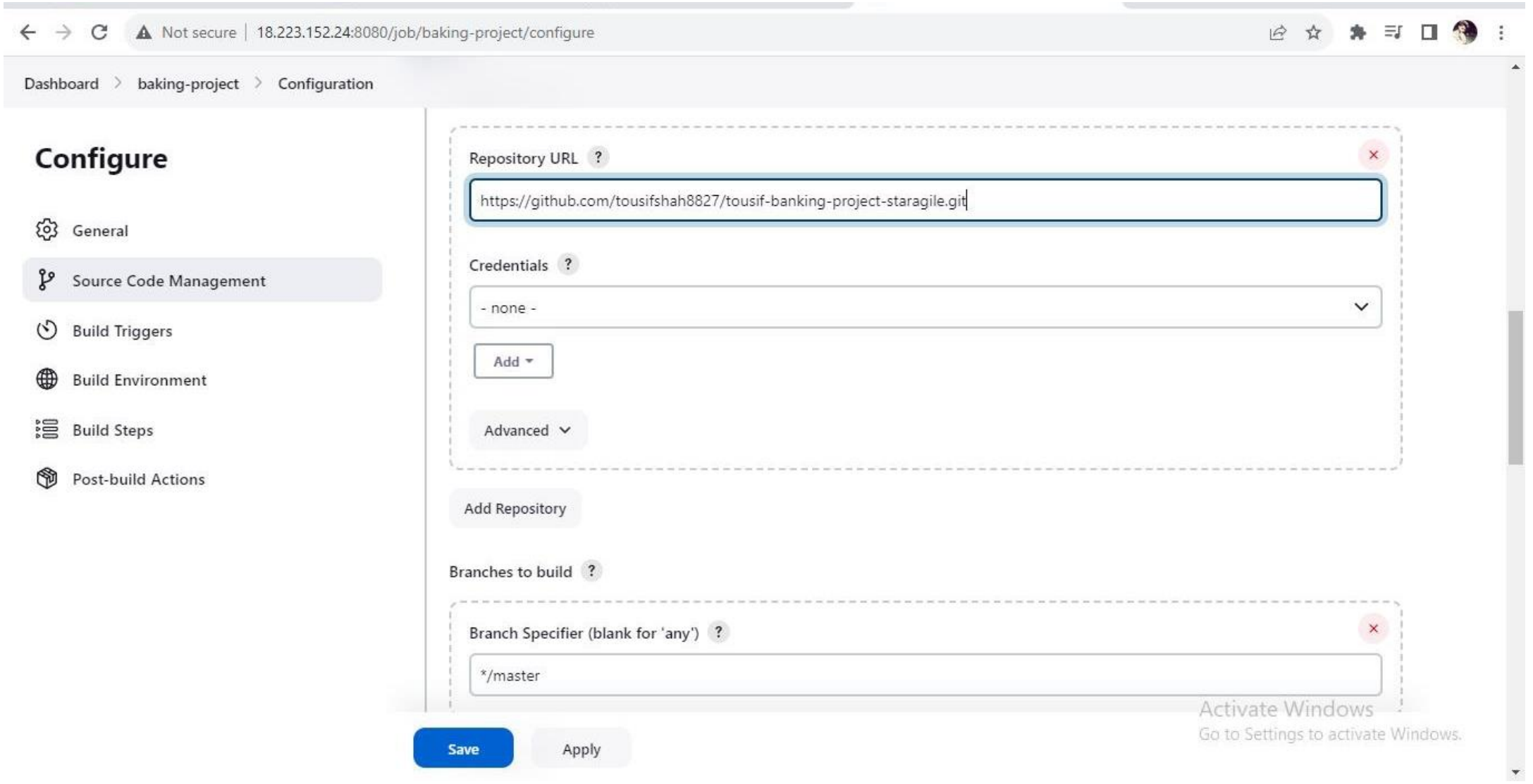
Create freestyle project.



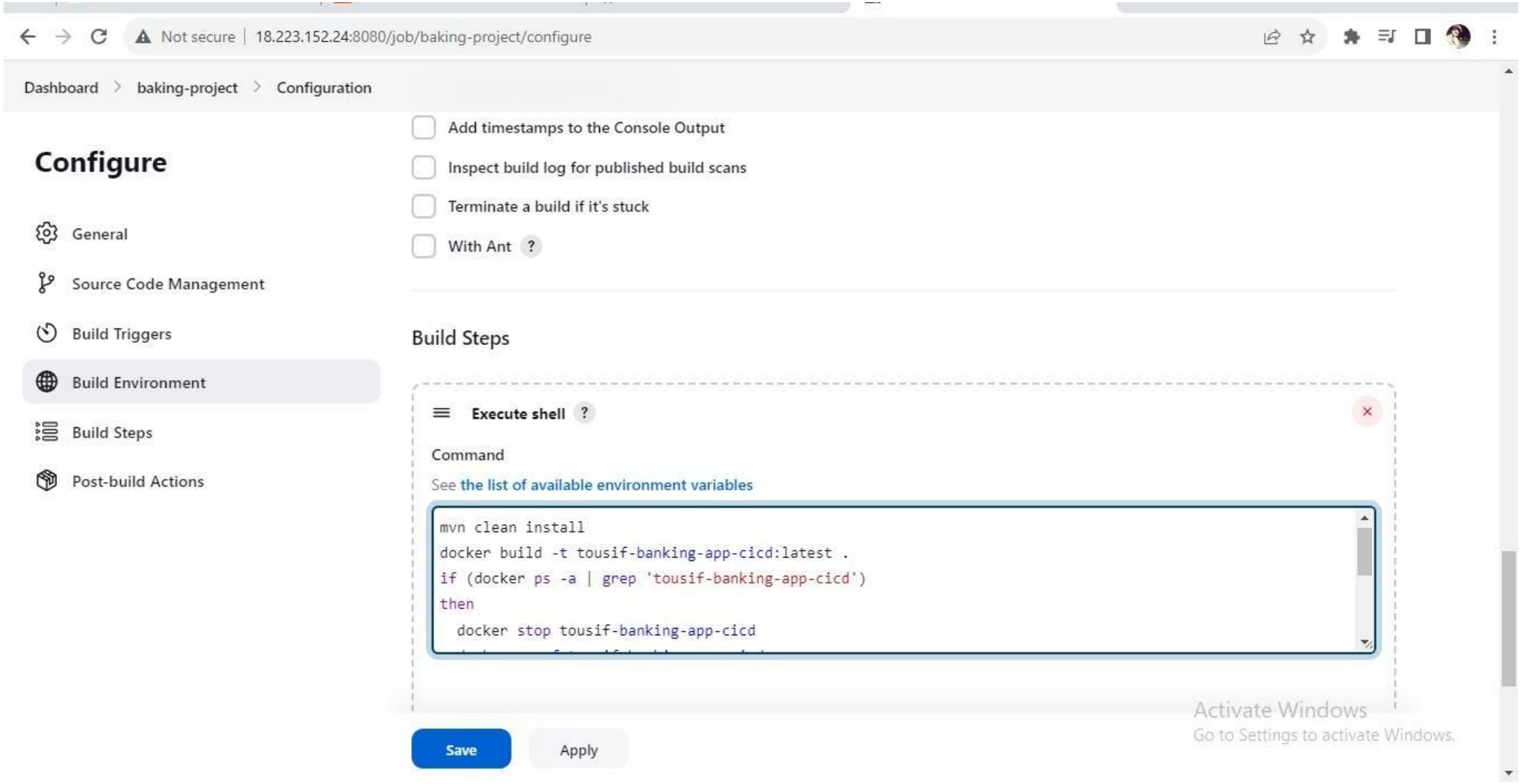
Given the github path where is my source code.



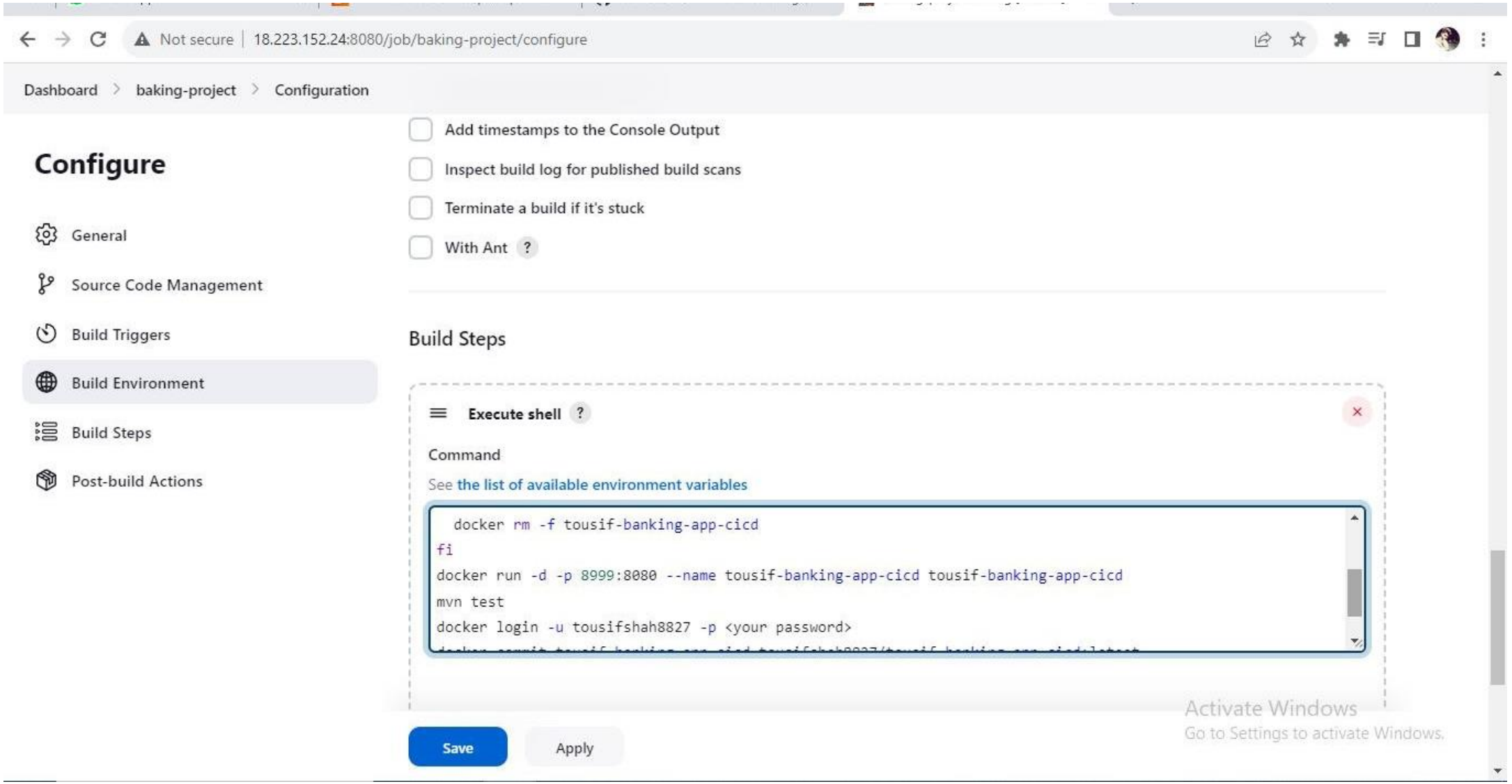
Same as above.



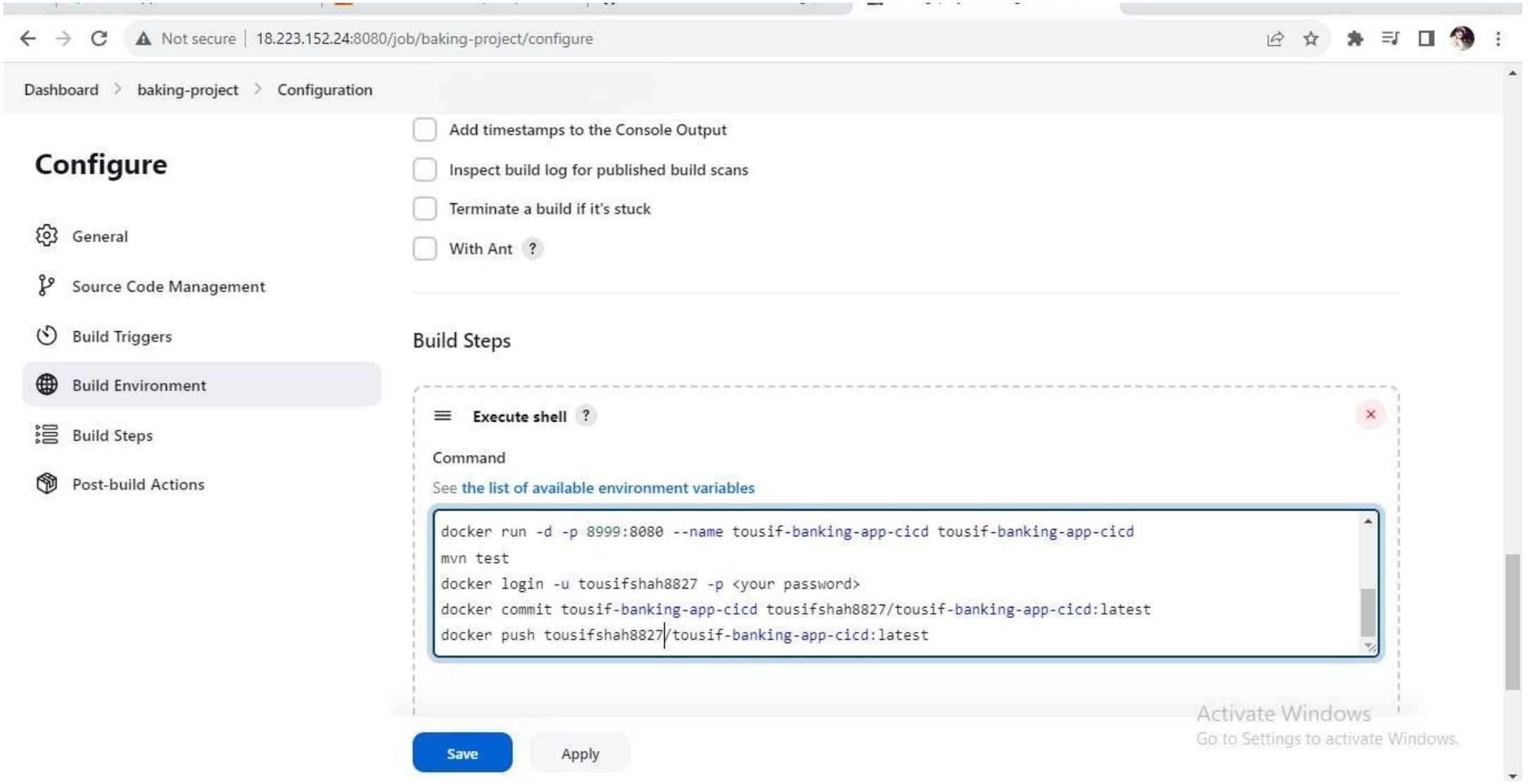
Given the command to create war/jar file and build docker image .



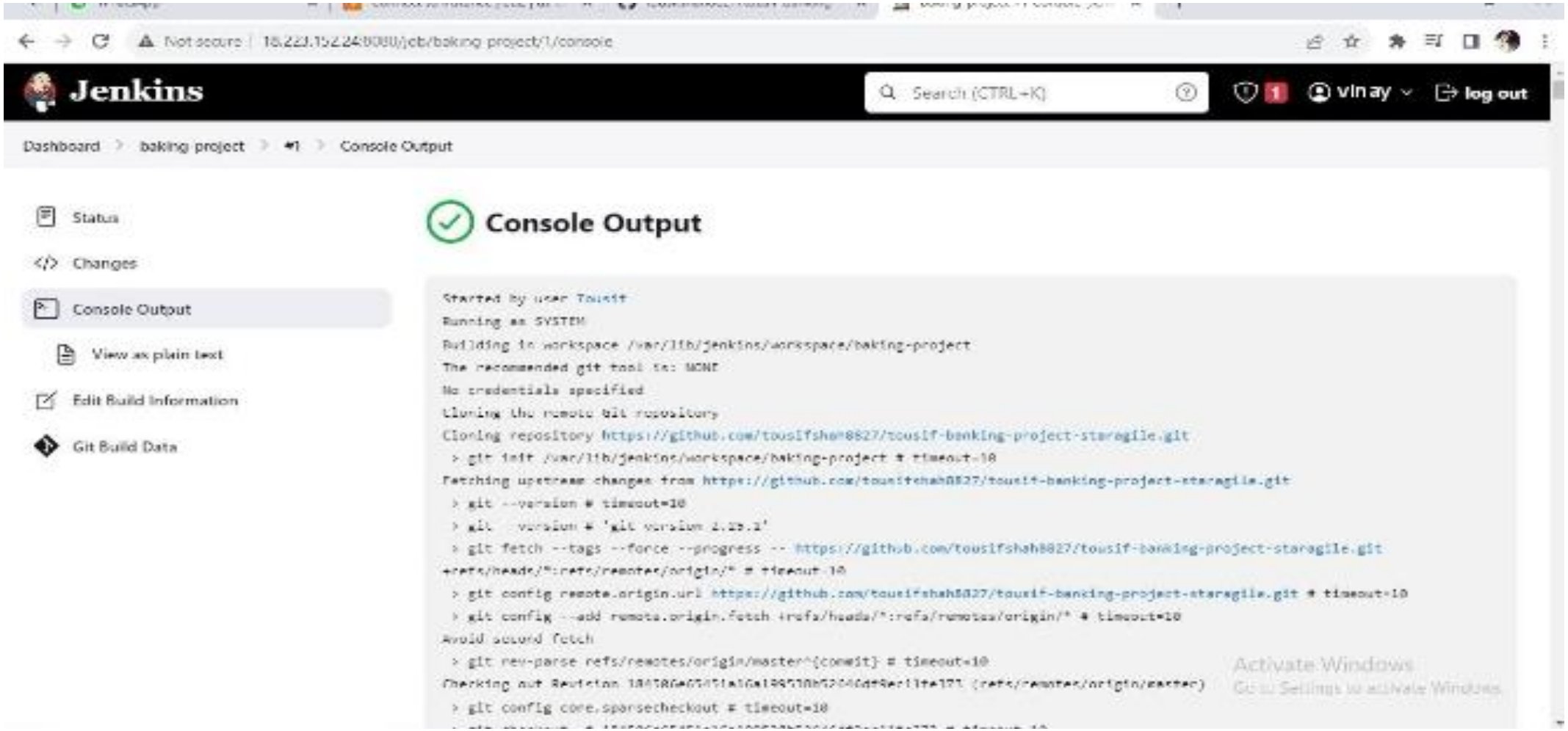
Given the command to run docker conatiner and docker login.



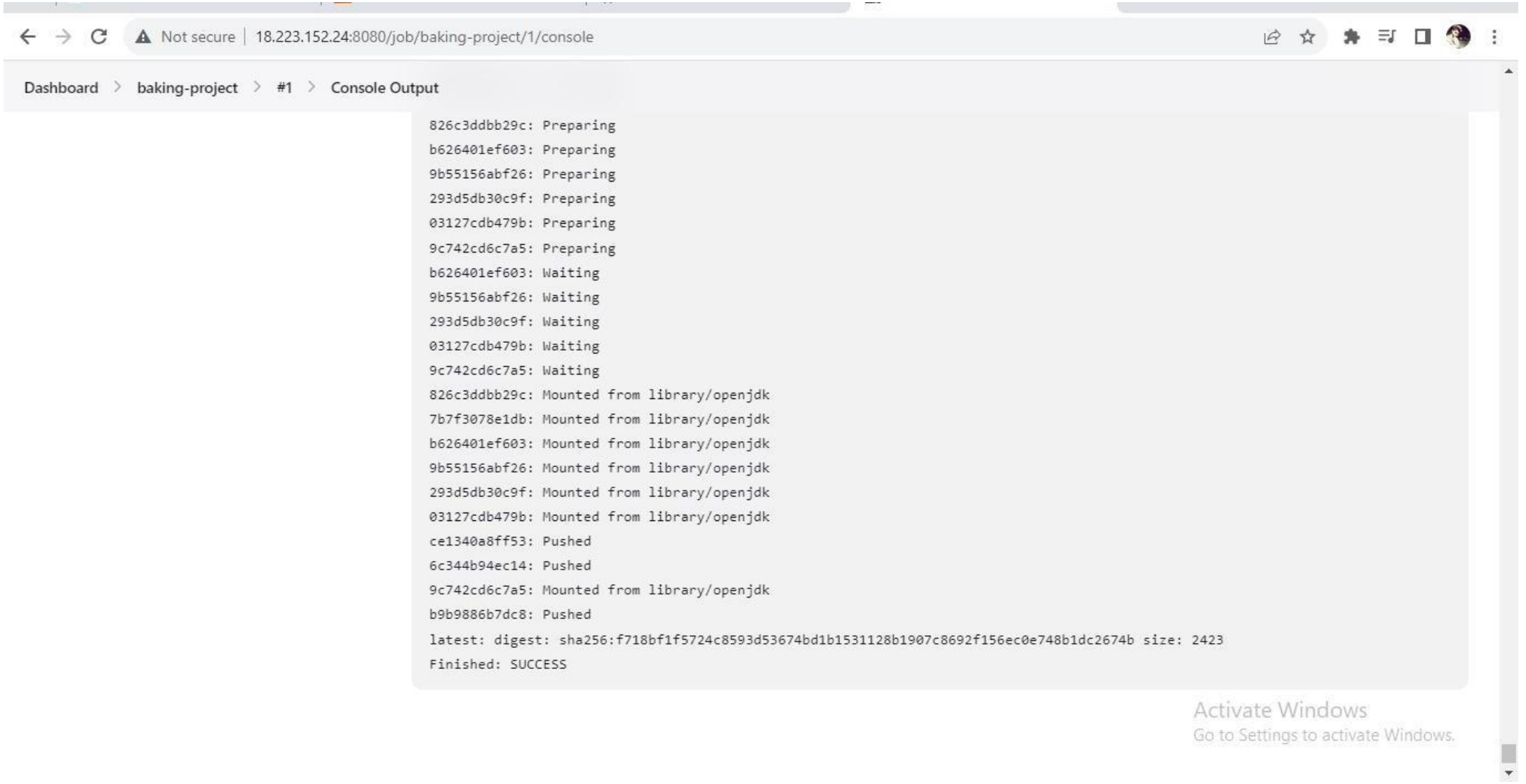
Given the command to create container to image and push the image in docker hub.

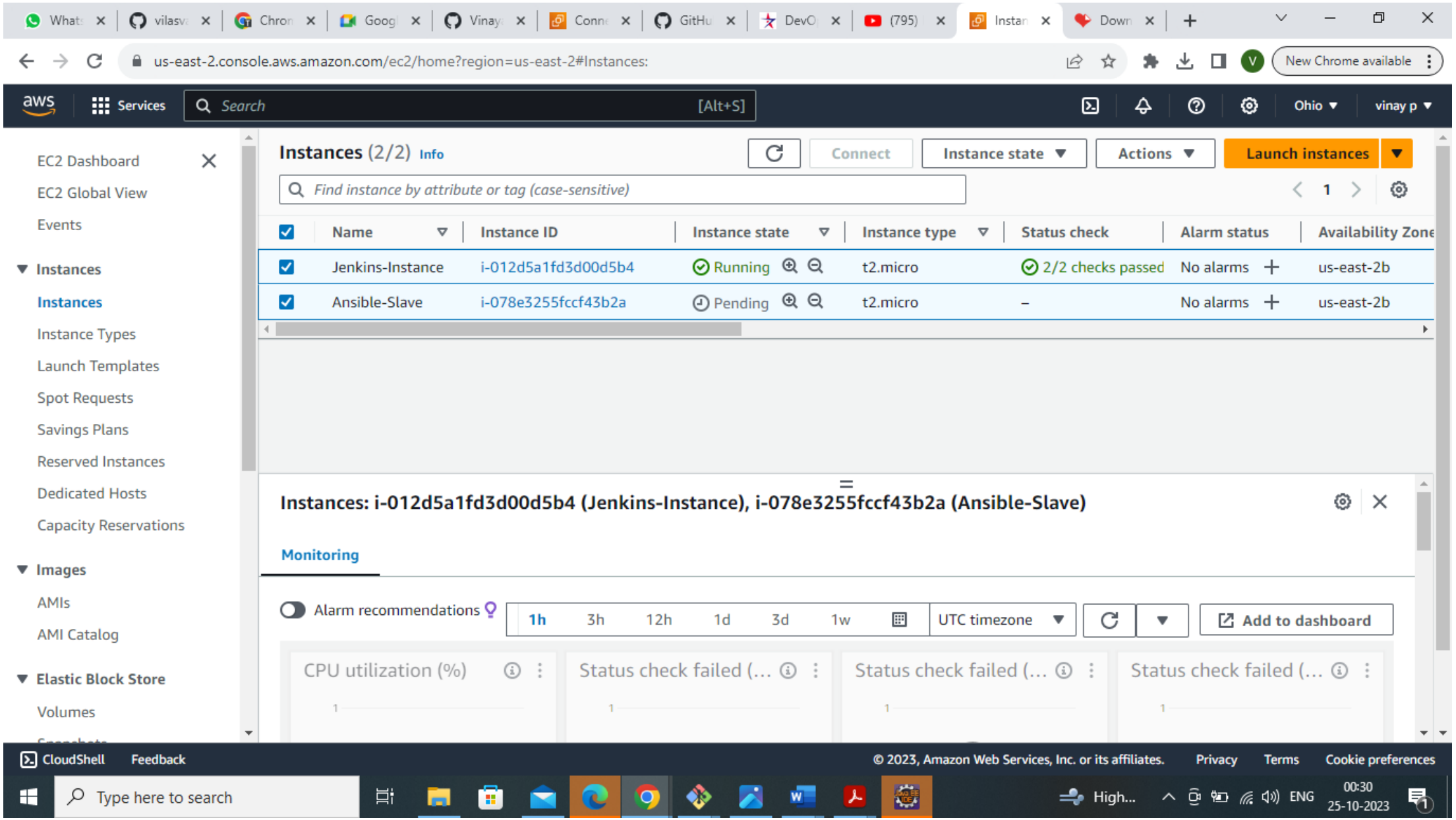


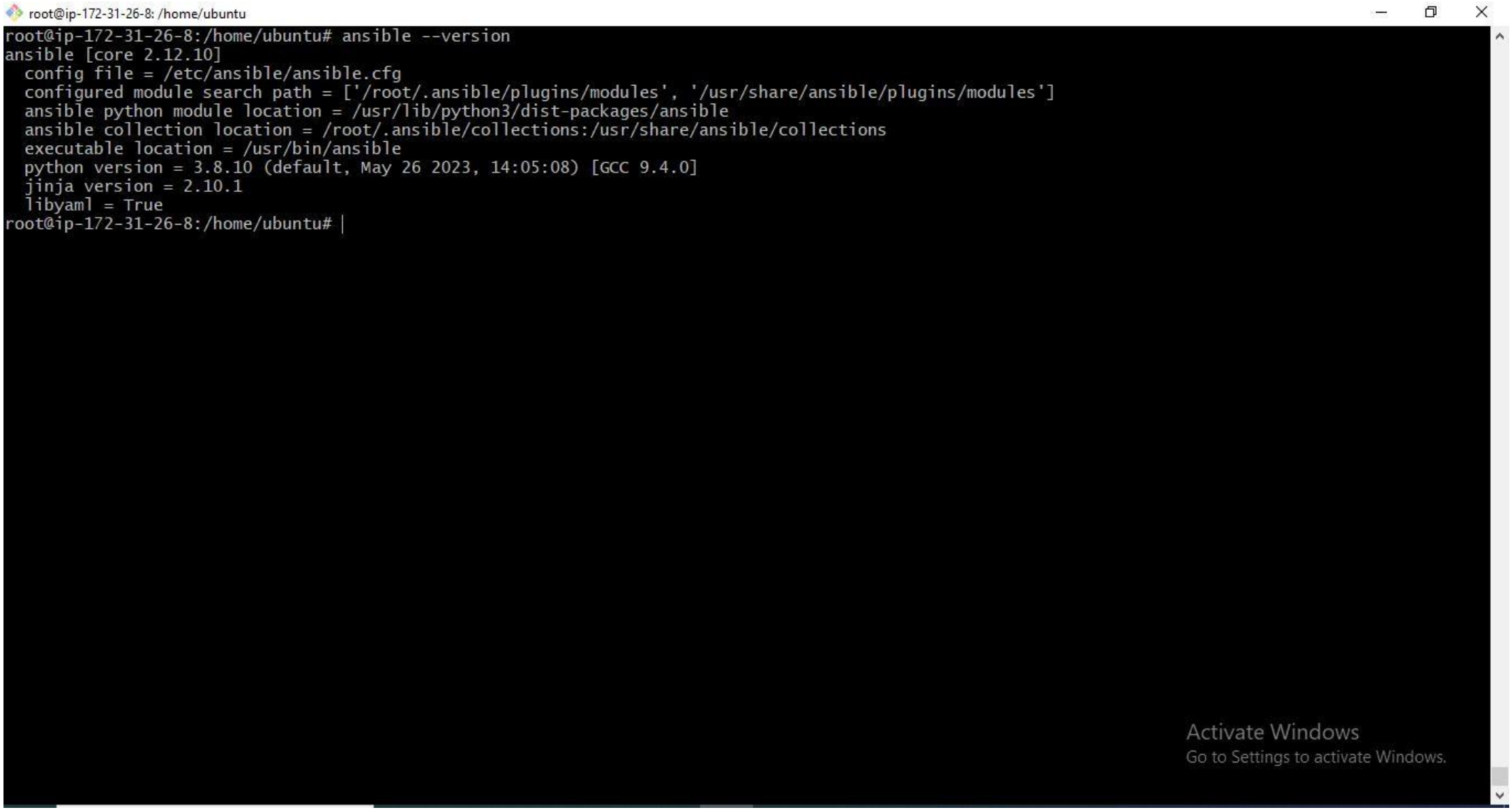
Now build the project ans showing result.



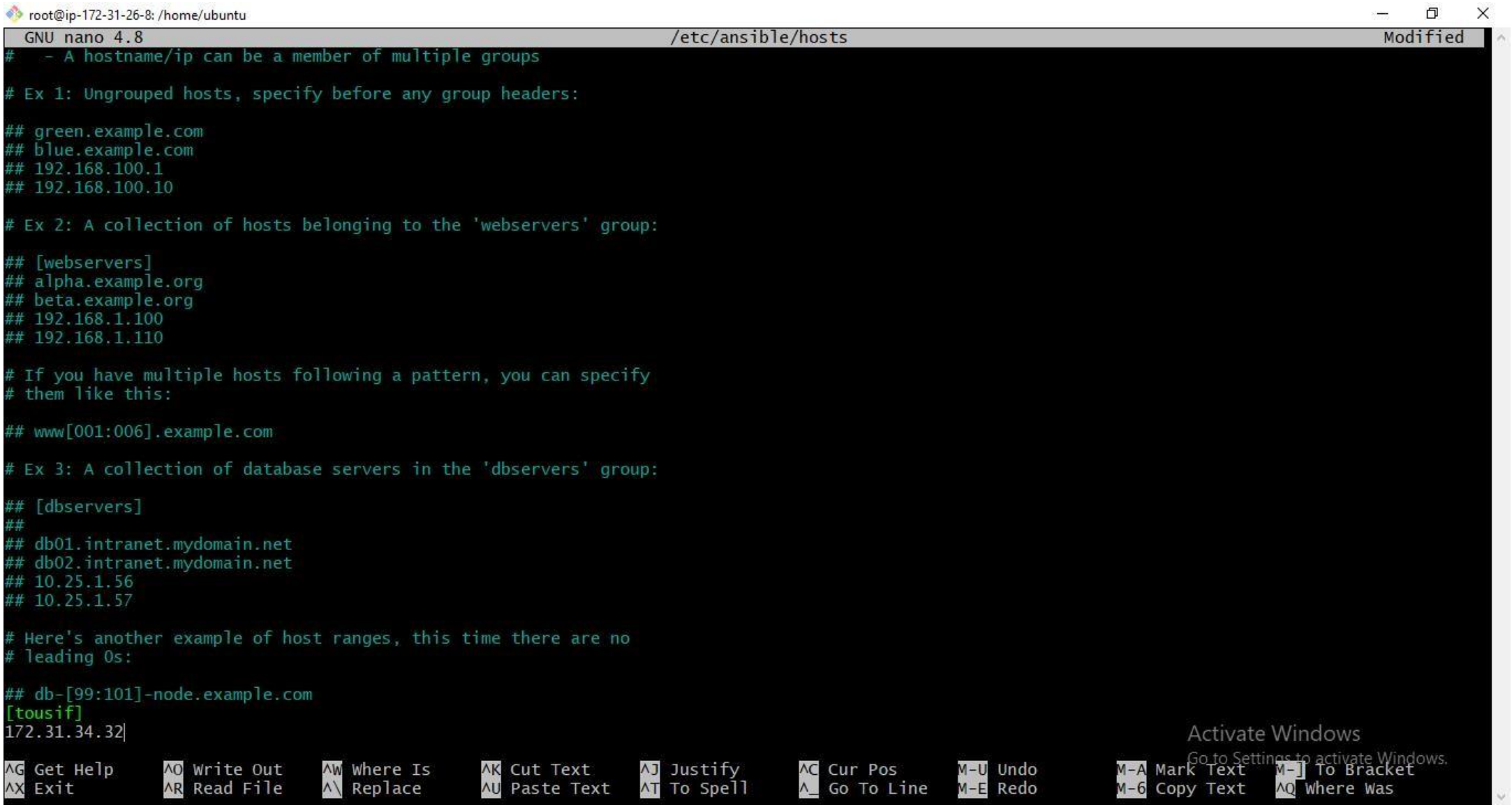
Same as above.




us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:
New Chrome available
aws
Services
Search
[Alt+S]
Ohio
vinay p
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (2/2) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Jenkins-Instance
i-012d5a1fd3d00d5b4
Running
t2.micro
2/2 checks passed
No alarms
us-east-2b
Ansible-Slave
i-078e3255fccf43b2a
Pending
t2.micro
–
No alarms
us-east-2b
Instances: i-012d5a1fd3d00d5b4 (Jenkins-Instance), i-078e3255fccf43b2a (Ansible-Slave)
Monitoring
Alarm recommendations
1h
3h
12h
1d
3d
1w
UTC timezone
Add to dashboard
CPU utilization (%)
Status check failed (...
Status check failed (...
Status check failed (...
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
High...
ENG
00:30
25-10-2023


root@ip-172-31-26-8: /home/ubuntu
root@ip-172-31-26-8:/home/ubuntu# ansible --version
ansible [core 2.12.10]
config file = /etc/ansible/ansible.cfg
configured module search path = ['/root/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
ansible python module location = /usr/lib/python3/dist-packages/ansible
ansible collection location = /root/.ansible/collections:/usr/share/ansible/collections
executable location = /usr/bin/ansible
python version = 3.8.10 (default, May 26 2023, 14:05:08) [GCC 9.4.0]
jinja version = 2.10.1
libyaml = True
root@ip-172-31-26-8:/home/ubuntu#
Activate Windows
Go to Settings to activate Windows.

Same as above.



Write yml file code to run ansible slave.

ansible@ip-172-31-26-8: ~

```yaml
- name: Configure and Deploy Spring Boot App
  hosts: tousif  # Replace with the target host from your inventory file
  become: yes  # This allows the tasks to run with sudo privileges

  tasks:
    - name: Install Python and pip
      become: yes
      raw: test -e /usr/bin/python3 || (apt -y update && apt install -y python3 python3-pip)

    - name: Install Docker python
      pip:
        name: docker
        state: present
      become: yes

    - name: deploy tousif banking project
      docker_container:
        name: banking-app
        #become_user: ansible
        #become_method: sudo
        image: docker.io/tousifshah8827/tousif-banking-app-cicd  # Replace with your Docker image and tag
        state: started
        #restart_policy: always
        ports:
          - "8081:8080"
        privileged: true # Run this task as the 'demo' user
```

-- INSERT -- 22,26 Bot

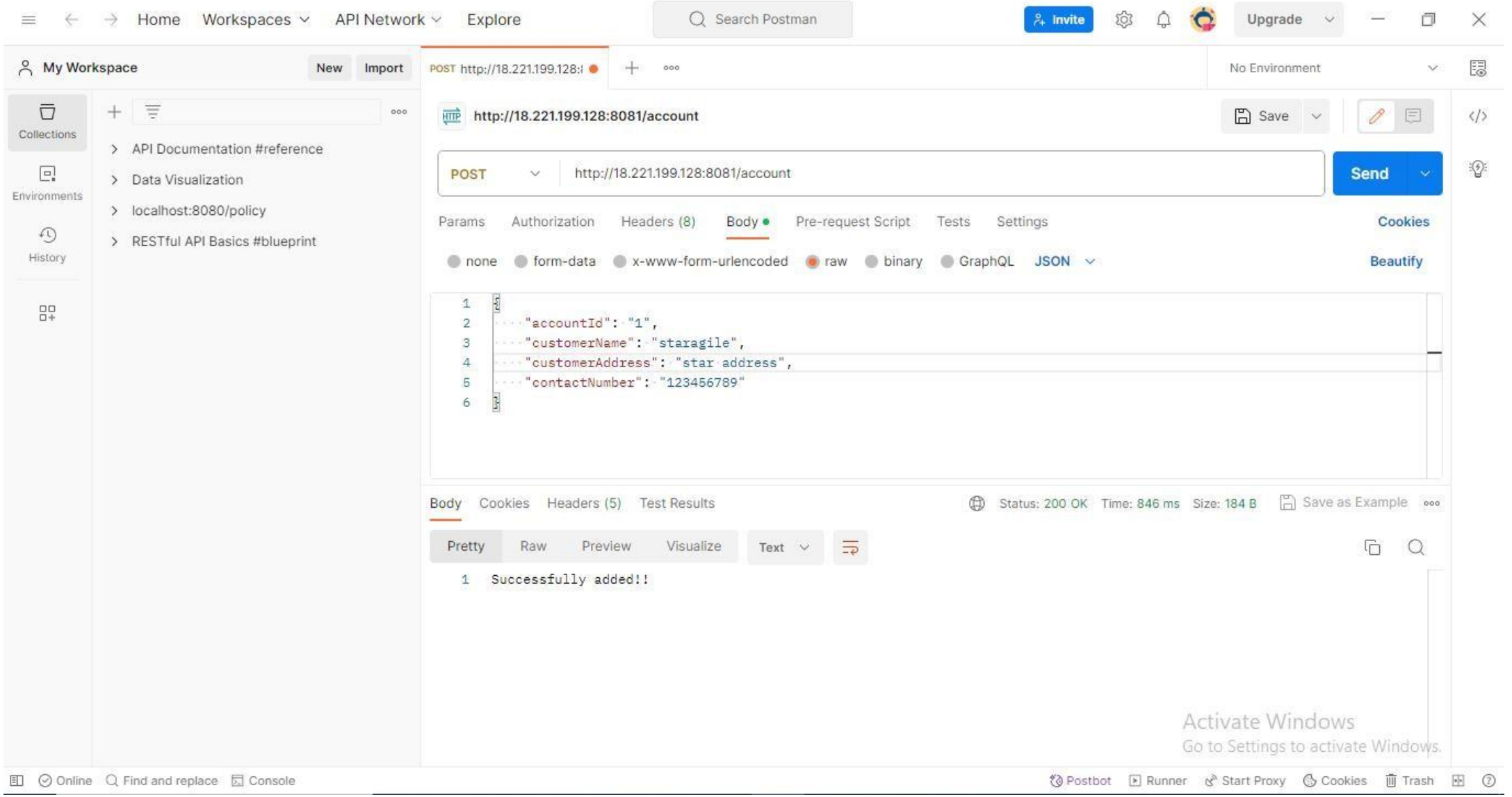
ansible@ip-172-31-26-8: ~

```
ansible@ip-172-31-26-8:~$ ansible-playbook tousifbanking.yml

PLAY [Configure and Deploy Spring Boot App] ***************************************************************

TASK [Gathering Facts] ************************************************************************************
ok: [172.31.34.32]

TASK [Install Python and pip] *****************************************************************************
changed: [172.31.34.32]

TASK [Install Docker python] ******************************************************************************
ok: [172.31.34.32]

TASK [deploy tousif banking project] **********************************************************************
changed: [172.31.34.32]

PLAY RECAP ************************************************************************************************
172.31.34.32               : ok=4    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

ansible@ip-172-31-26-8:~$
```

Activate Windows
Go to Settings to activate Windows.

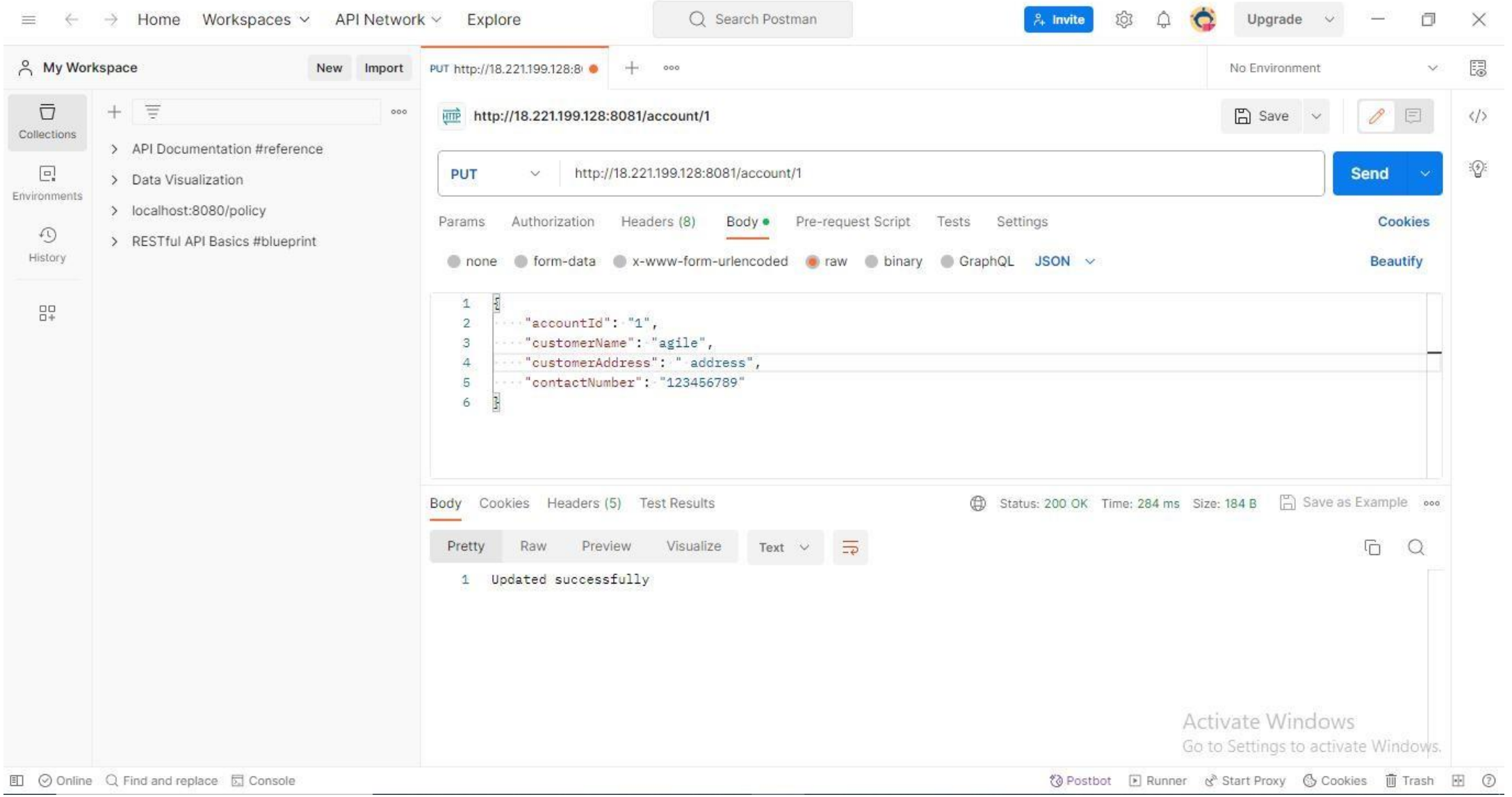

Not secure | 18.221.199.128:8081/getallaccount
Welcome to Vinay Banking Web Application
Enter your ID:
Enter your name:
Enter your address:
Enter your contact:
Create Account
Update Account
Delete Account
Account ID
Customer Name
Customer Address
Contact Number
Activate Windows
Go to Settings to activate Windows.

/createAccount (HTTP Method : POST) (Request Body : JSON)



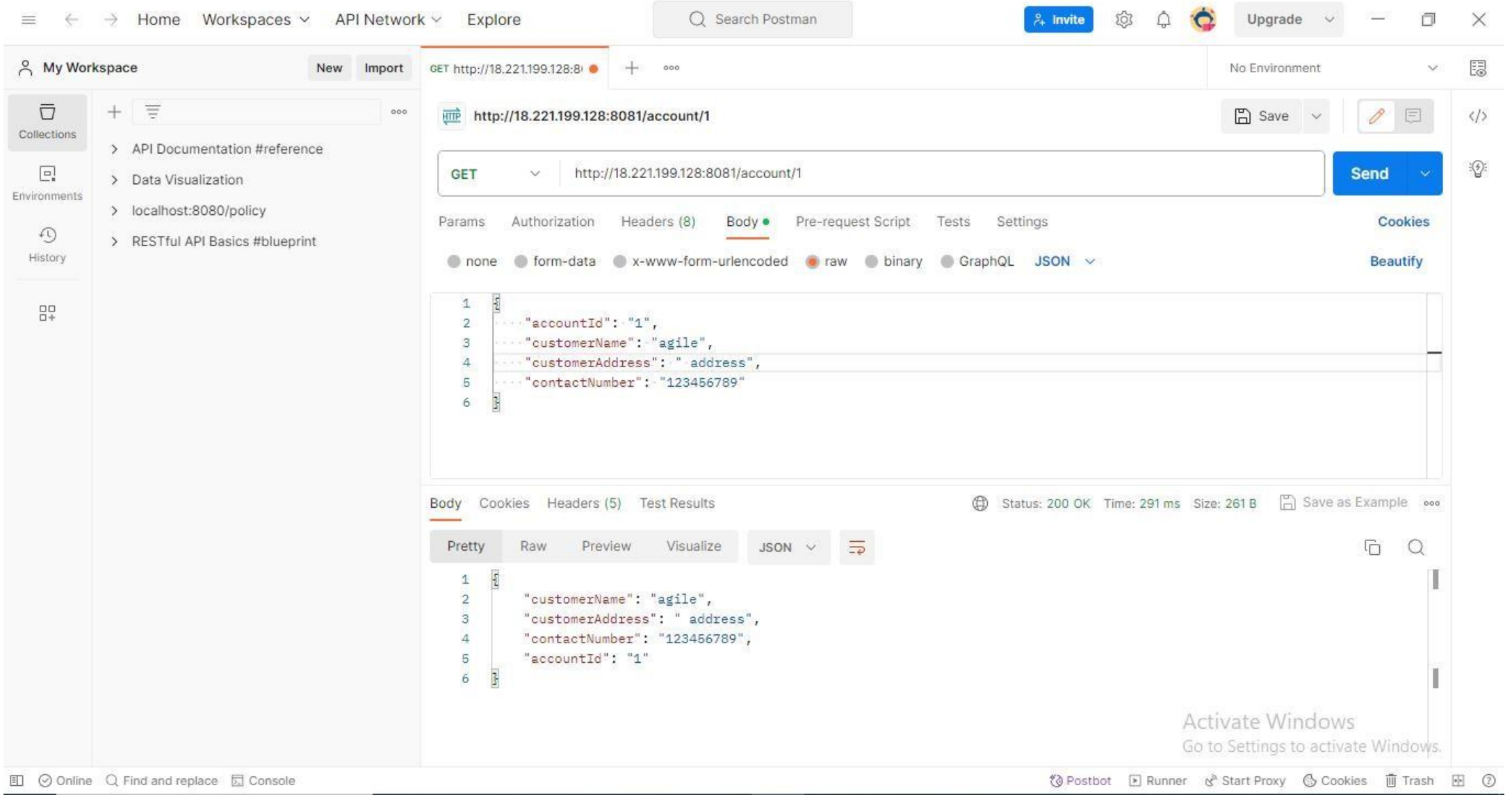
Showing result.

/updateAccount/{account no.} (HTTP Method : PUT) (Request Body : JSON)

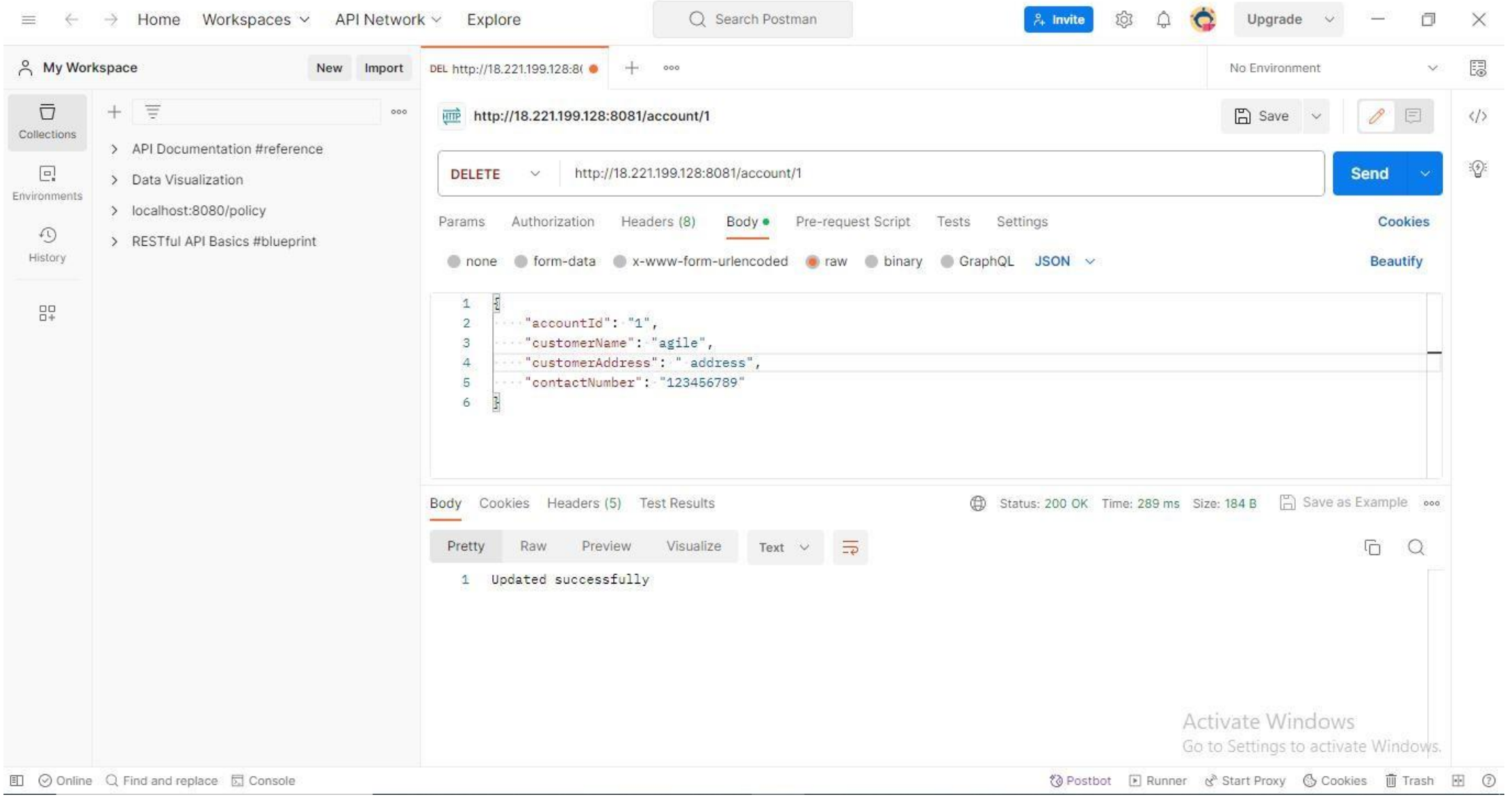


Showing result.

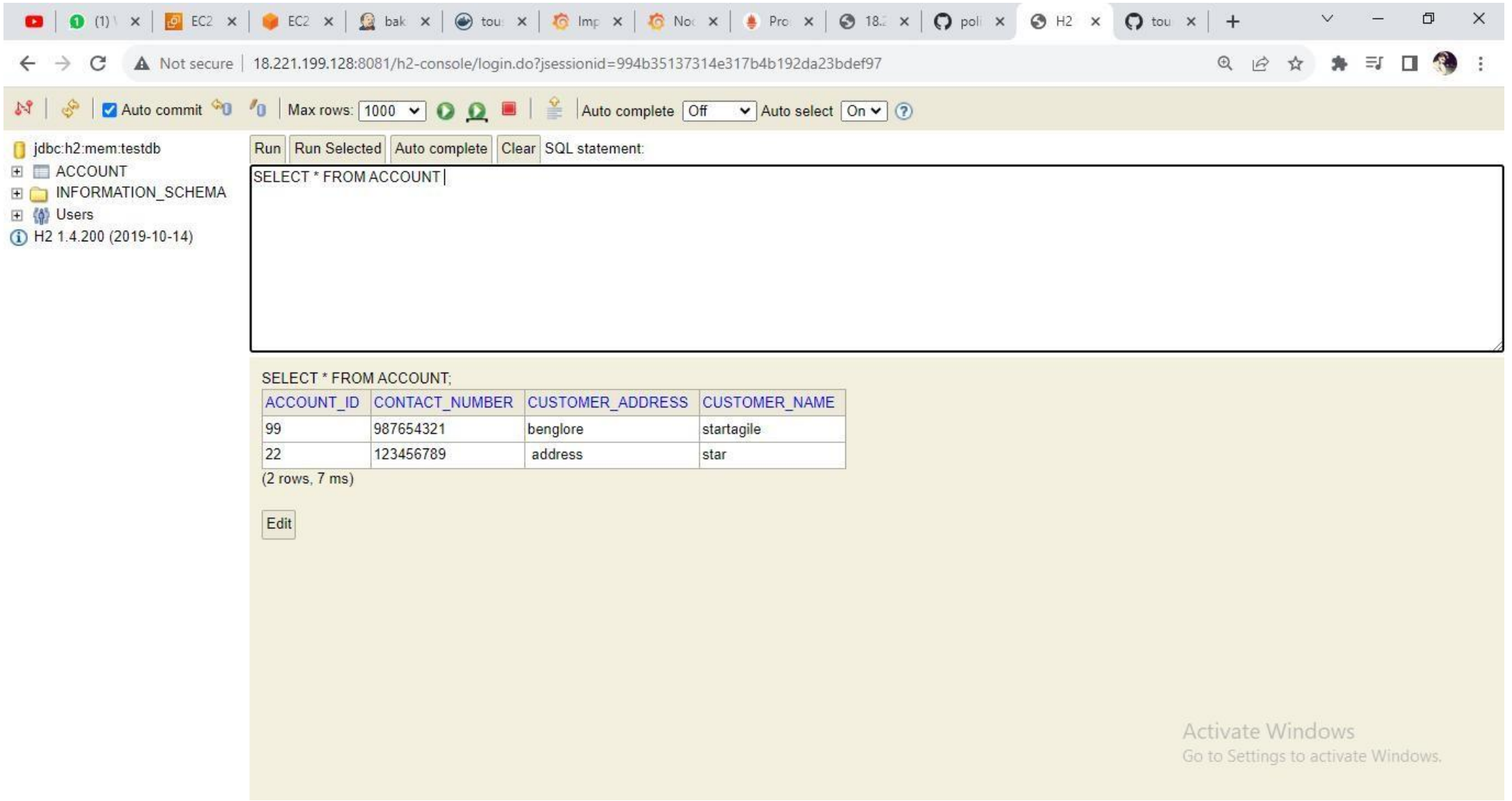
/viewPolicy/{account no.} (HTTP Method : GET) (No Request Body)

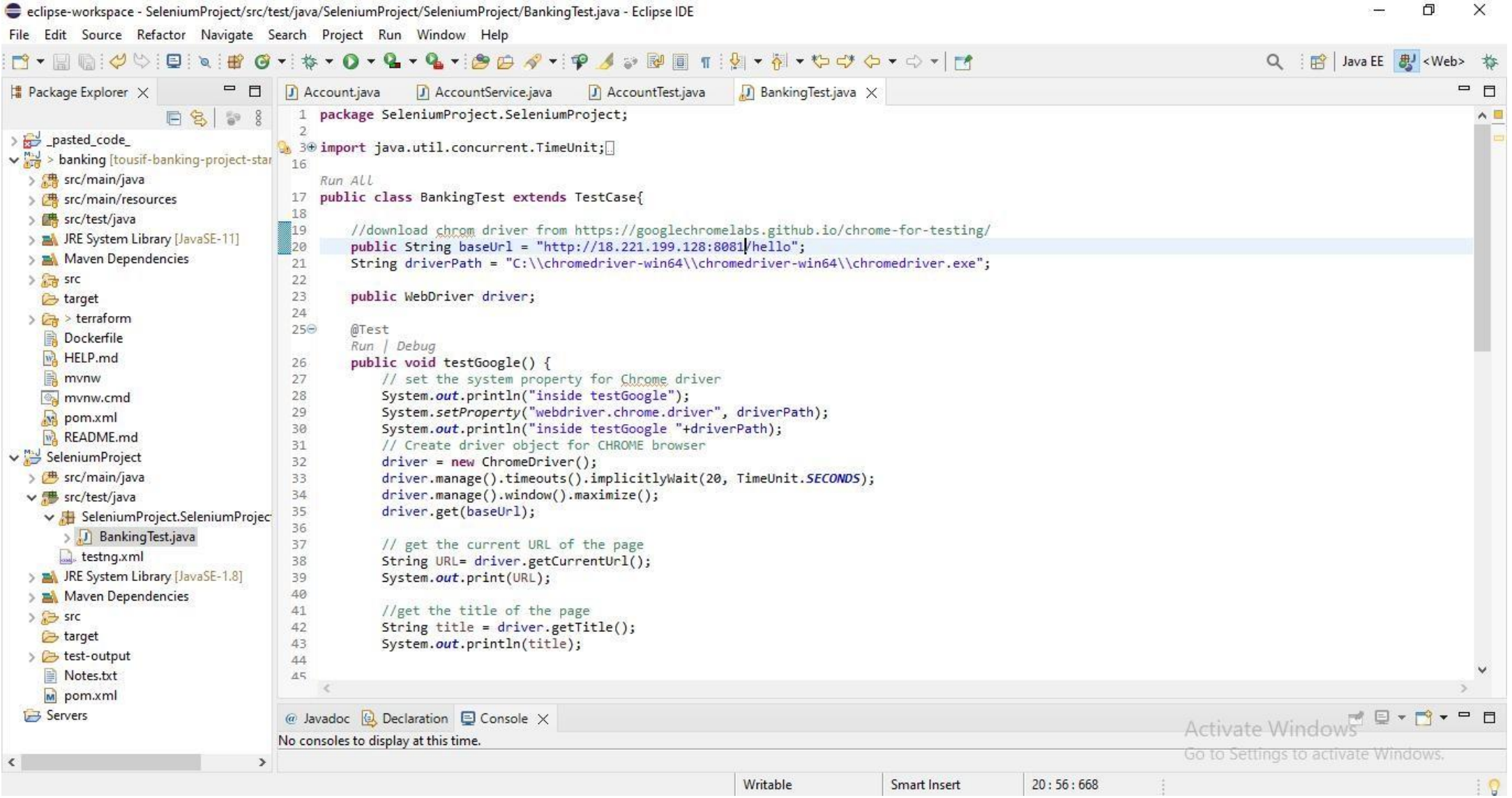


. /deletePolicy/{account no.} (HTTP Method : DELETE) (No Request Body)

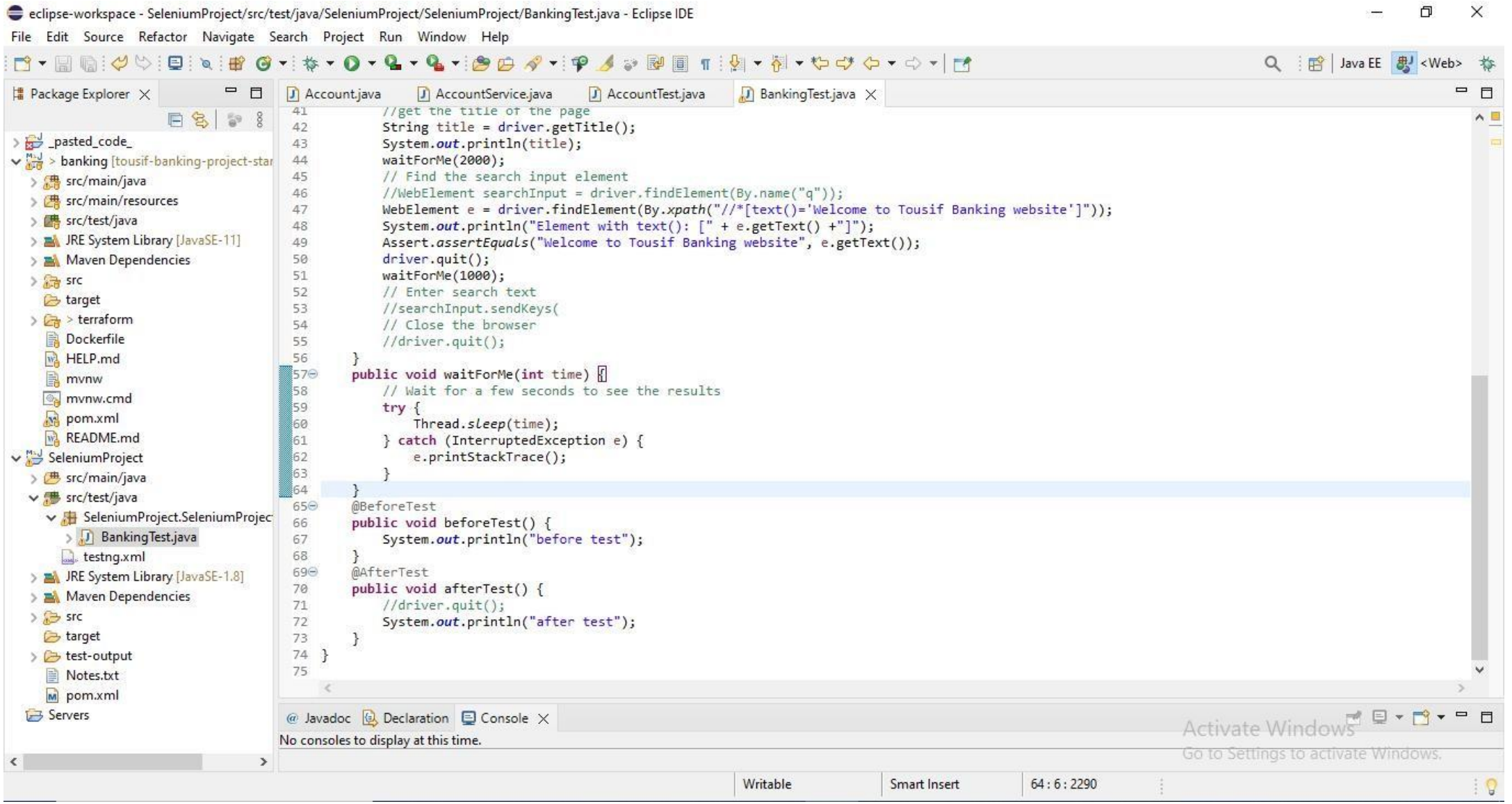


Showing result.

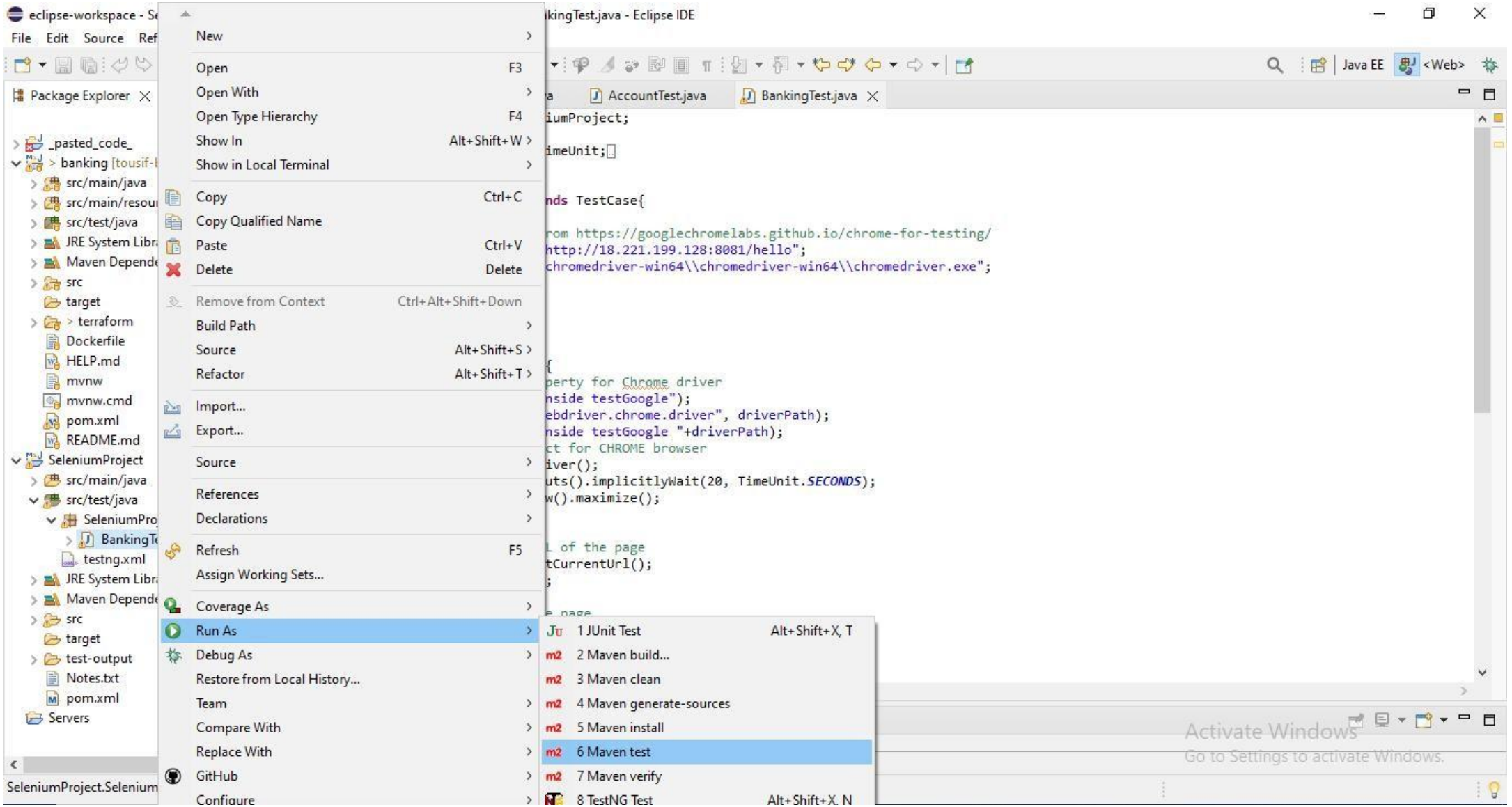

H2
Not secure
18.221.199.128:8081/h2-console/login.do?jsessionid=994b35137314e317b4b192da23bdef97
Auto commit
Max rows: 1000
Auto complete Off
Auto select On
jdbc:h2:mem:testdb
ACCOUNT
INFORMATION_SCHEMA
Users
H2 1.4.200 (2019-10-14)
Run
Run Selected
Auto complete
Clear
SQL statement:
SELECT * FROM ACCOUNT
SELECT * FROM ACCOUNT;
ACCOUNT_ID CONTACT_NUMBER CUSTOMER_ADDRESS CUSTOMER_NAME
99 987654321 benglore startagile
22 123456789 address star
(2 rows, 7 ms)
Edit
Activate Windows
Go to Settings to activate Windows.

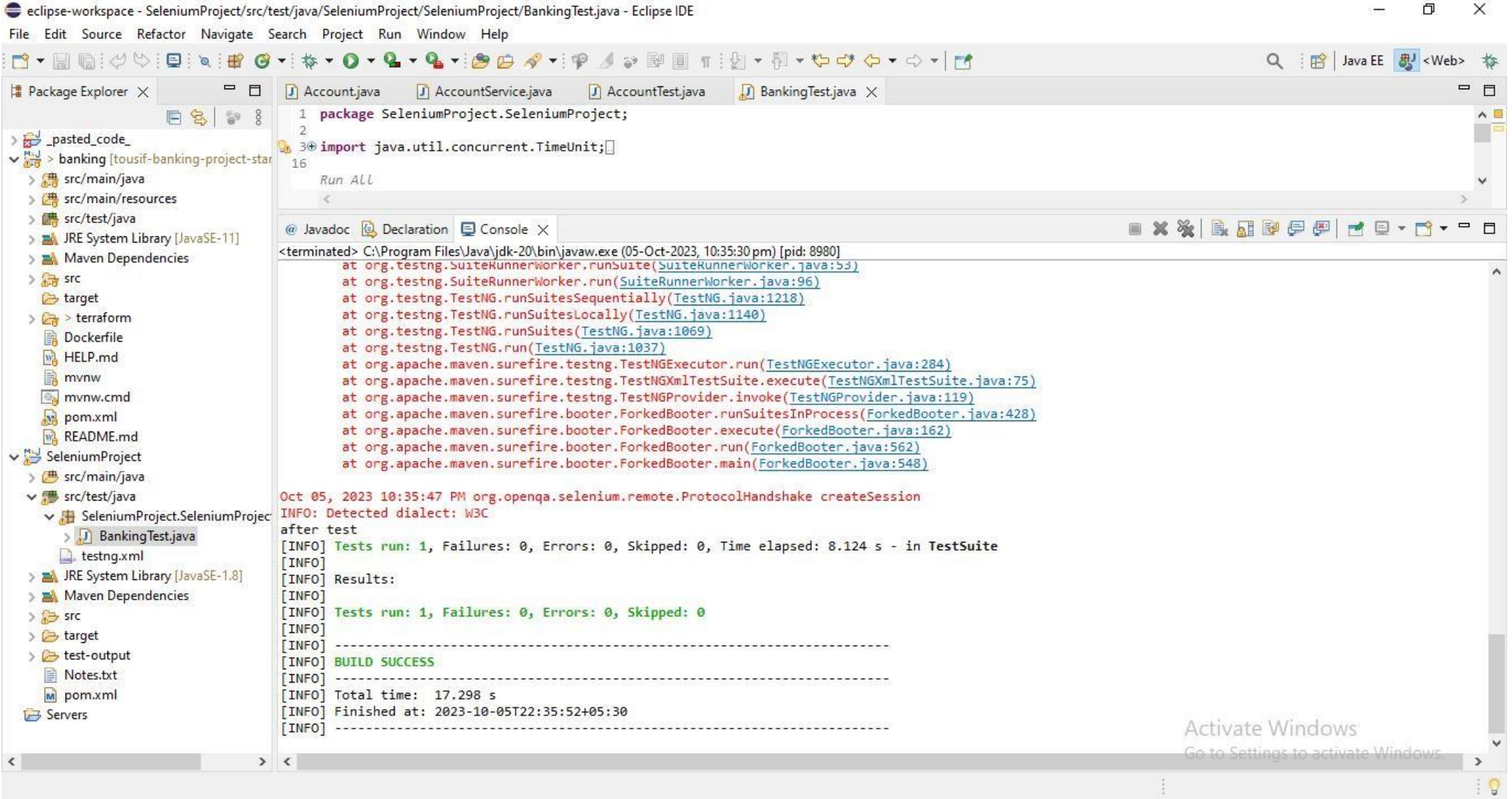

eclipse-workspace - SeleniumProject/src/test/java/SeleniumProject/SeleniumProject/BankingTest.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Java EE
<Web>
Package Explorer
_pasted_code_
banking [tousif-banking-project-star
src/main/java
src/main/resources
src/test/java
JRE System Library [JavaSE-11]
Maven Dependencies
src
target
terraform
Dockerfile
HELP.md
mvnw
mvnw.cmd
pom.xml
README.md
SeleniumProject
src/main/java
src/test/java
SeleniumProject.SeleniumProjec
BankingTest.java
testng.xml
JRE System Library [JavaSE-1.8]
Maven Dependencies
src
target
test-output
Notes.txt
pom.xml
Servers
Account.java
AccountService.java
AccountTest.java
BankingTest.java
1 package SeleniumProject.SeleniumProject;
2
3 import java.util.concurrent.TimeUnit;
16
Run All
17 public class BankingTest extends TestCase{
18
19 //download chrom driver from https://googlechromelabs.github.io/chrome-for-testing/
20 public String baseUrl = "http://18.221.199.128:8081/hello";
21 String driverPath = "C:\\chromedriver-win64\\chromedriver-win64\\chromedriver.exe";
22
23 public WebDriver driver;
24
25 @Test
Run | Debug
26 public void testGoogle() {
27 // set the system property for Chrome driver
28 System.out.println("inside testGoogle");
29 System.setProperty("webdriver.chrome.driver", driverPath);
30 System.out.println("inside testGoogle "+driverPath);
31 // Create driver object for CHROME browser
32 driver = new ChromeDriver();
33 driver.manage().timeouts().implicitlyWait(20, TimeUnit.SECONDS);
34 driver.manage().window().maximize();
35 driver.get(baseUrl);
36
37 // get the current URL of the page
38 String URL= driver.getCurrentUrl();
39 System.out.print(URL);
40
41 //get the title of the page
42 String title = driver.getTitle();
43 System.out.println(title);
44
45
Javadoc
Declaration
Console
No consoles to display at this time.
Activate Windows
Go to Settings to activate Windows.
Writable
Smart Insert
20 : 56 : 668

Same as above.



Run selenium test.

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1 package SeleniumProject.SeleniumProject;
2
3 import java.util.concurrent.TimeUnit;
16
Run All
Javadoc
Declaration
Console
<terminated> C:\Program Files\Java\jdk-20\bin\javaw.exe (05-Oct-2023, 10:35:30 pm) [pid: 8980]
at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:53)
at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:96)
at org.testng.TestNG.runSuitesSequentially(TestNG.java:1218)
at org.testng.TestNG.runSuitesLocally(TestNG.java:1140)
at org.testng.TestNG.runSuites(TestNG.java:1069)
at org.testng.TestNG.run(TestNG.java:1037)
at org.apache.maven.surefire.testng.TestNGExecutor.run(TestNGExecutor.java:284)
at org.apache.maven.surefire.testng.TestNGXmlTestSuite.execute(TestNGXmlTestSuite.java:75)
at org.apache.maven.surefire.testng.TestNGProvider.invoke(TestNGProvider.java:119)
at org.apache.maven.surefire.booter.ForkedBooter.runSuitesInProcess(ForkedBooter.java:428)
at org.apache.maven.surefire.booter.ForkedBooter.execute(ForkedBooter.java:162)
at org.apache.maven.surefire.booter.ForkedBooter.run(ForkedBooter.java:562)
at org.apache.maven.surefire.booter.ForkedBooter.main(ForkedBooter.java:548)
Oct 05, 2023 10:35:47 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
after test
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 8.124 s - in TestSuite
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --
[INFO] BUILD SUCCESS
[INFO] --
[INFO] Total time: 17.298 s
[INFO] Finished at: 2023-10-05T22:35:52+05:30
[INFO] --
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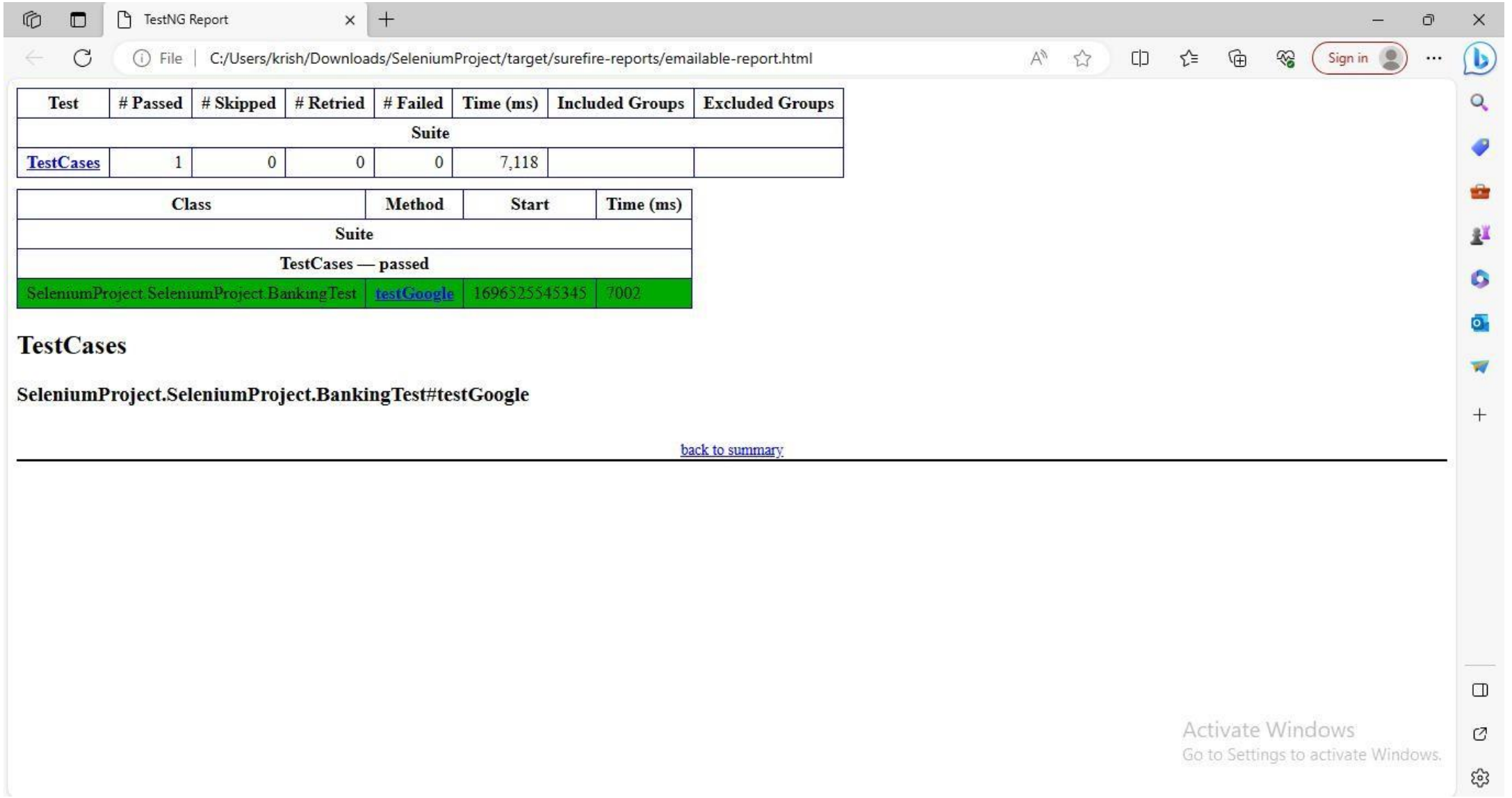


Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Suite							
TestCases	1	0	0	0	7,118		

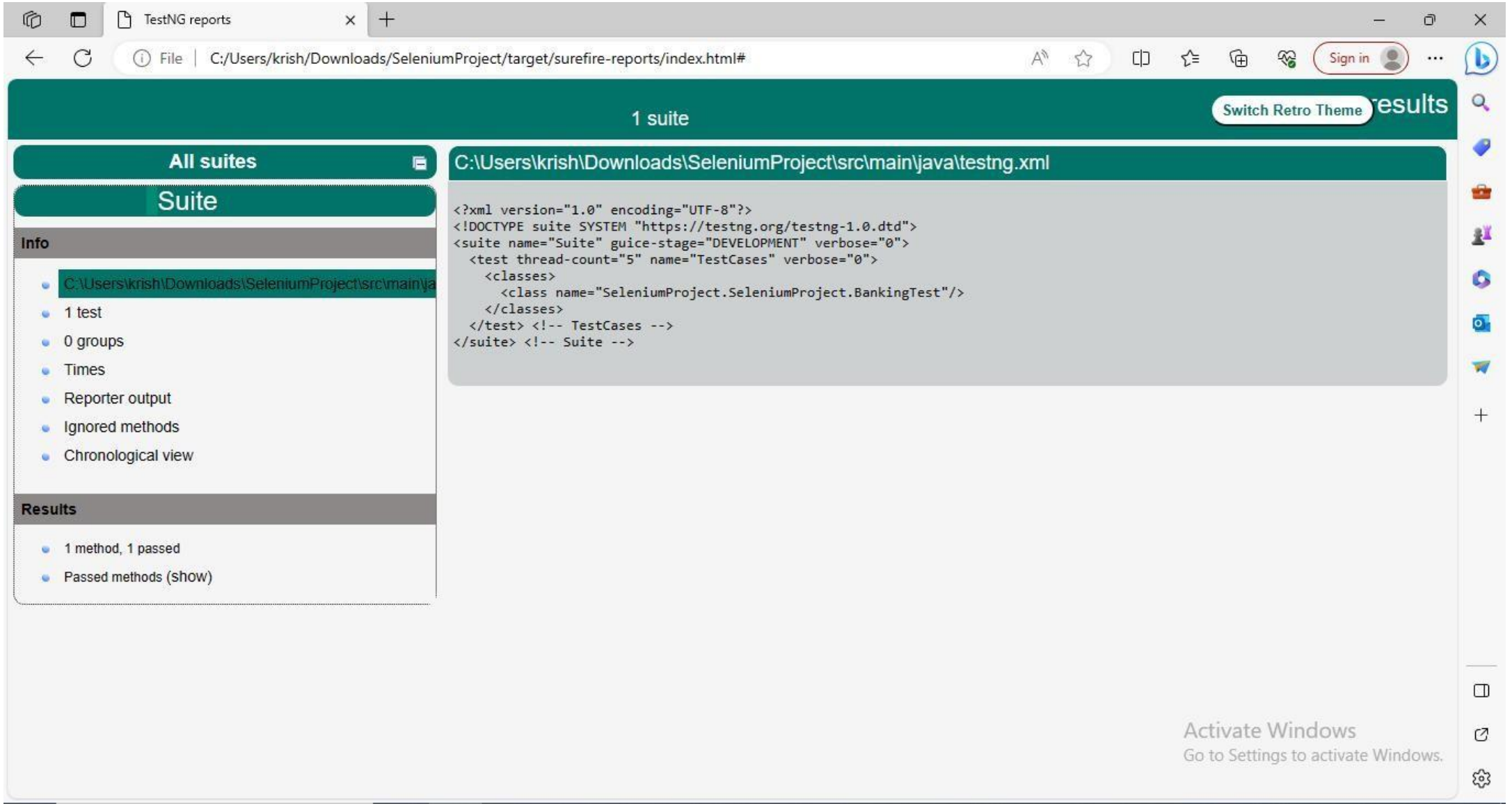
Class	Method	Start	Time (ms)
Suite			
TestCases — passed			
SeleniumProject.SeleniumProject.BankingTest	testGoogle	1696525545345	7002

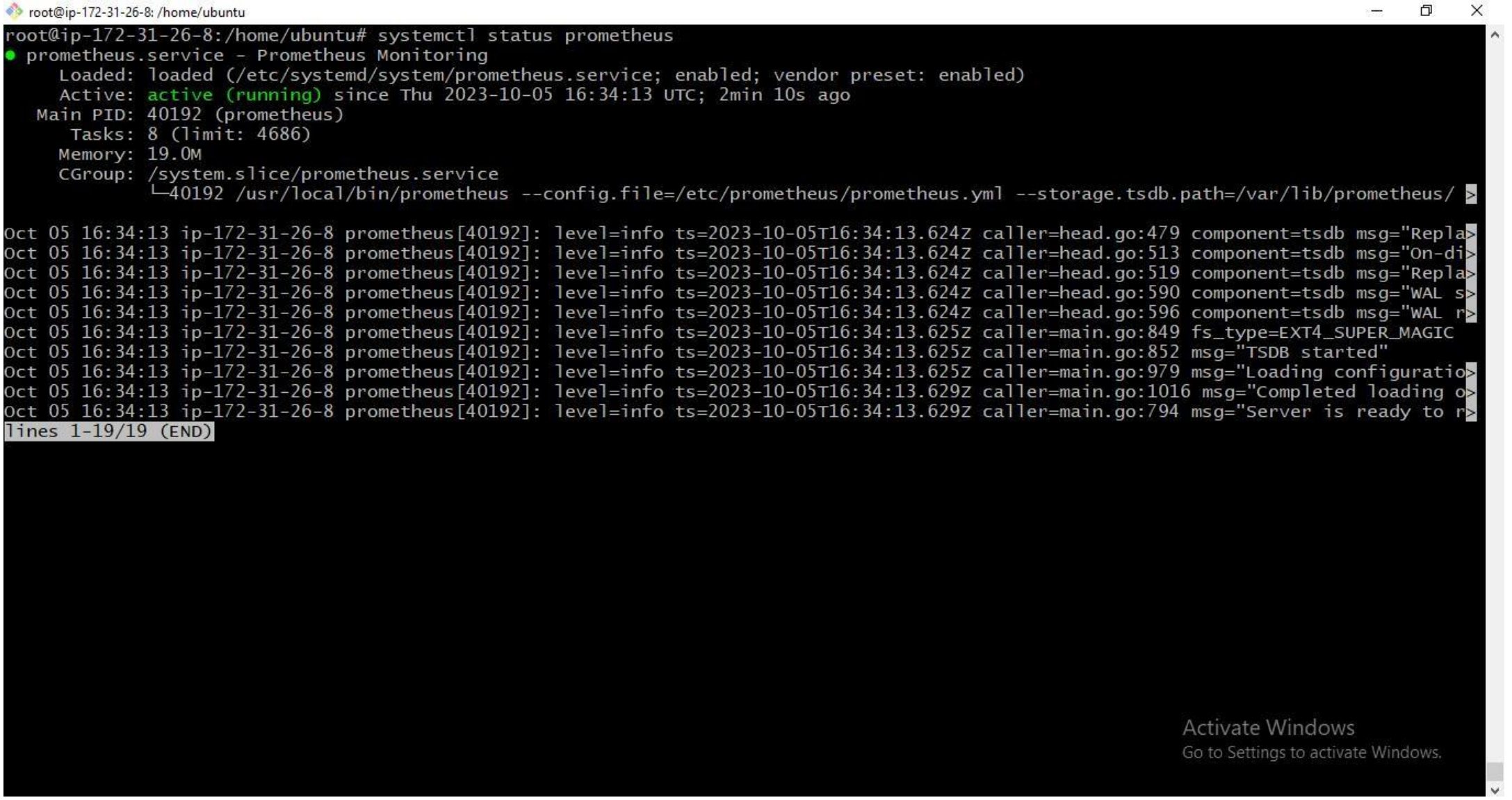
TestCases

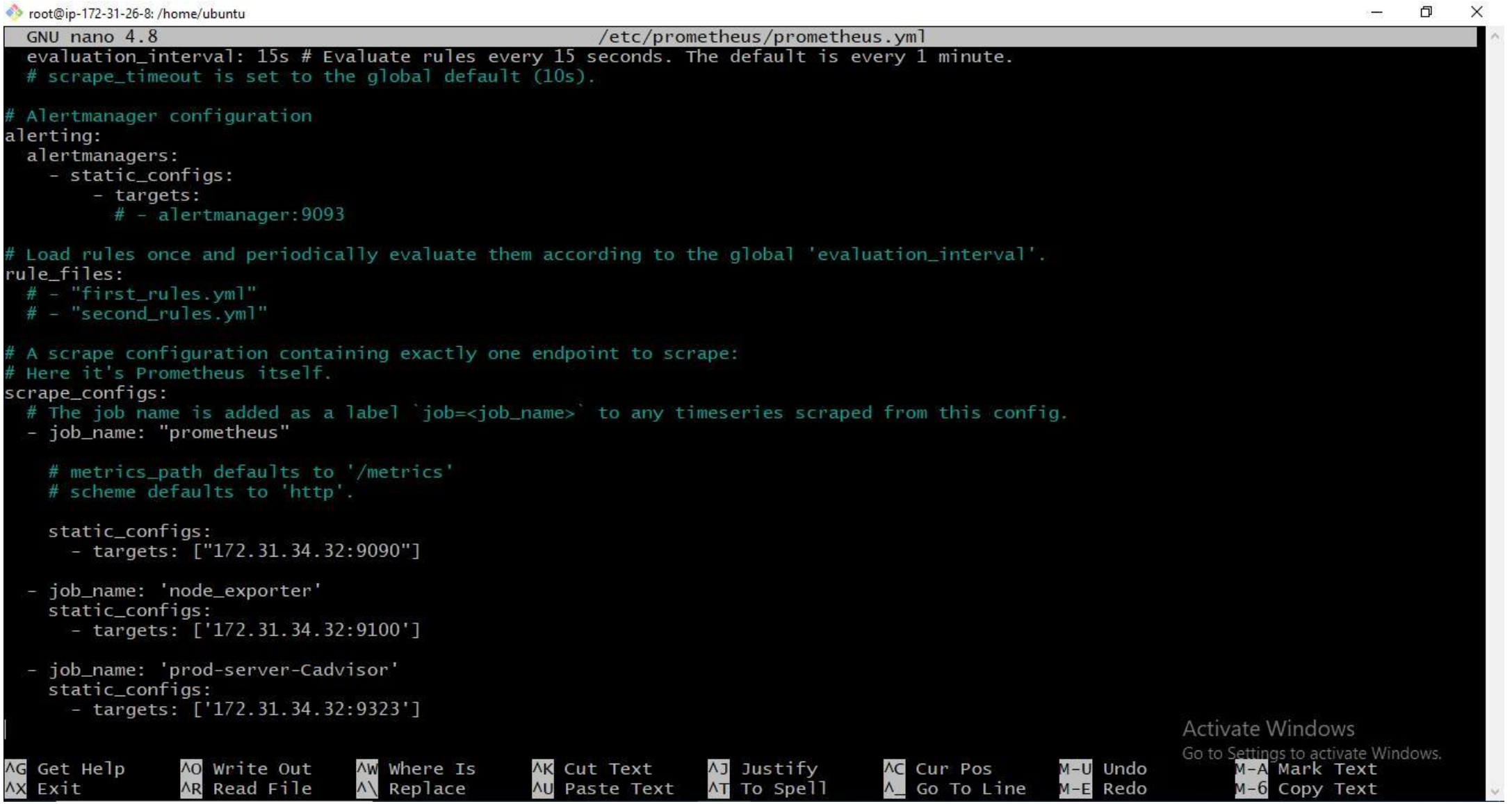
SeleniumProject.SeleniumProject.BankingTest#testGoogle

back to summary

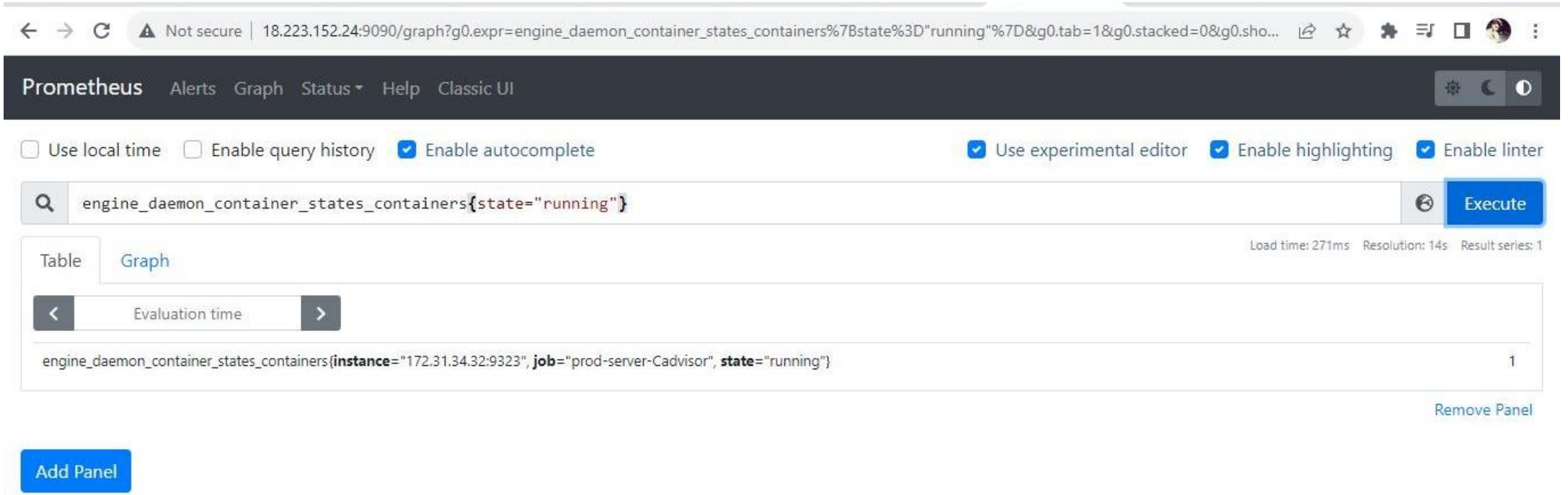
Showing result.



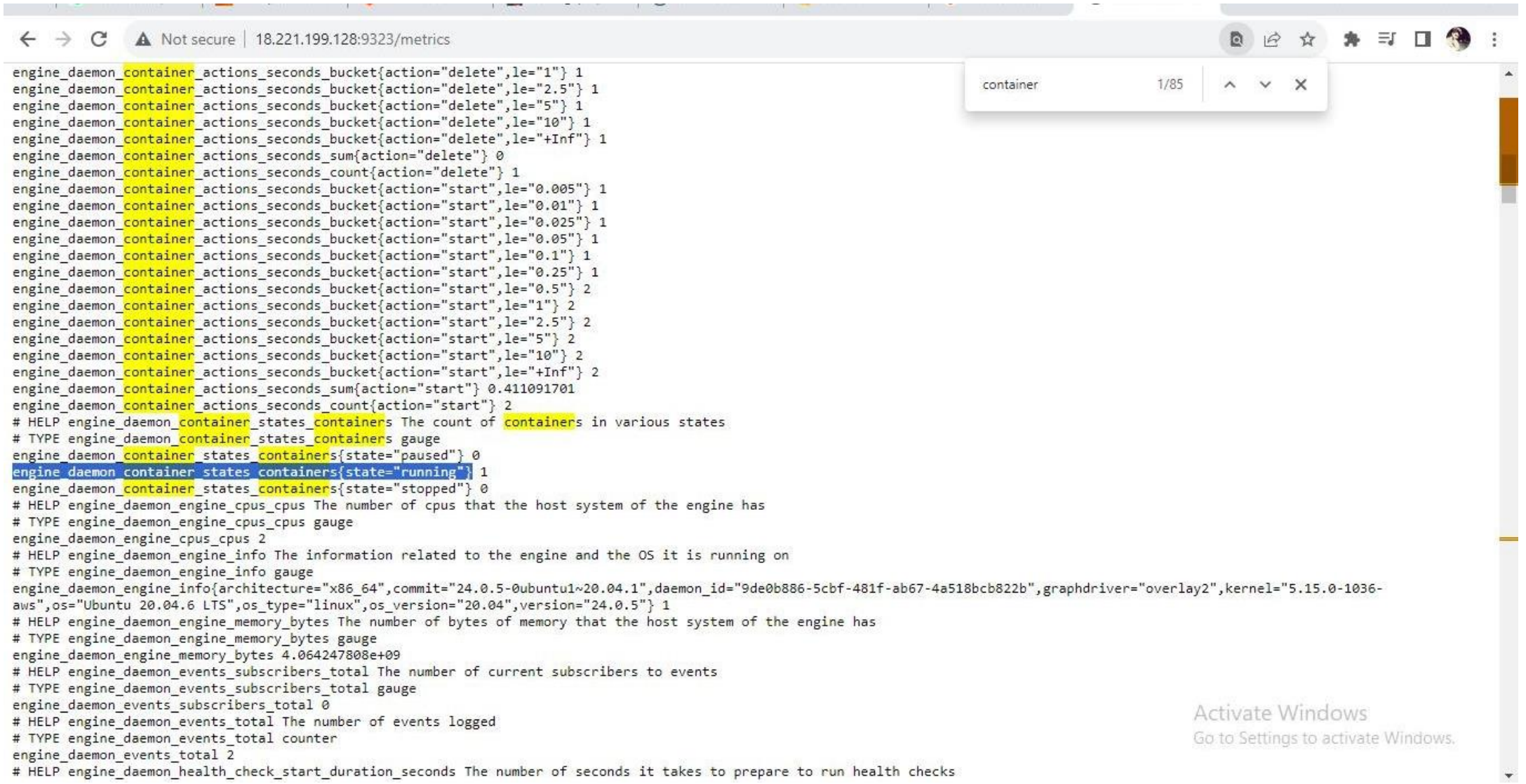

root@ip-172-31-26-8: /home/ubuntu
root@ip-172-31-26-8:/home/ubuntu# systemctl status prometheus
● prometheus.service - Prometheus Monitoring
Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; vendor preset: enabled)
Active: active (running) since Thu 2023-10-05 16:34:13 UTC; 2min 10s ago
Main PID: 40192 (prometheus)
Tasks: 8 (limit: 4686)
Memory: 19.0M
CGroup: /system.slice/prometheus.service
└─40192 /usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --storage.tsdb.path=/var/lib/prometheus/ >
Oct 05 16:34:13 ip-172-31-26-8 prometheus[40192]: level=info ts=2023-10-05T16:34:13.624Z caller=head.go:479 component=tsdb msg="Repla>
Oct 05 16:34:13 ip-172-31-26-8 prometheus[40192]: level=info ts=2023-10-05T16:34:13.624Z caller=head.go:513 component=tsdb msg="On-di>
Oct 05 16:34:13 ip-172-31-26-8 prometheus[40192]: level=info ts=2023-10-05T16:34:13.624Z caller=head.go:519 component=tsdb msg="Repla>
Oct 05 16:34:13 ip-172-31-26-8 prometheus[40192]: level=info ts=2023-10-05T16:34:13.624Z caller=head.go:590 component=tsdb msg="WAL s>
Oct 05 16:34:13 ip-172-31-26-8 prometheus[40192]: level=info ts=2023-10-05T16:34:13.624Z caller=head.go:596 component=tsdb msg="WAL r>
Oct 05 16:34:13 ip-172-31-26-8 prometheus[40192]: level=info ts=2023-10-05T16:34:13.625Z caller=main.go:849 fs_type=EXT4_SUPER_MAGIC
Oct 05 16:34:13 ip-172-31-26-8 prometheus[40192]: level=info ts=2023-10-05T16:34:13.625Z caller=main.go:852 msg="TSDB started"
Oct 05 16:34:13 ip-172-31-26-8 prometheus[40192]: level=info ts=2023-10-05T16:34:13.625Z caller=main.go:979 msg="Loading configuratio>
Oct 05 16:34:13 ip-172-31-26-8 prometheus[40192]: level=info ts=2023-10-05T16:34:13.629Z caller=main.go:1016 msg="Completed loading o>
Oct 05 16:34:13 ip-172-31-26-8 prometheus[40192]: level=info ts=2023-10-05T16:34:13.629Z caller=main.go:794 msg="Server is ready to r>
lines 1-19/19 (END)
Activate Windows
Go to Settings to activate Windows.


root@ip-172-31-26-8: /home/ubuntu
GNU nano 4.8 /etc/prometheus/prometheus.yml
evaluation_interval: 15s # Evaluate rules every 15 seconds. The default is every 1 minute.
scrape_timeout is set to the global default (10s).
Alertmanager configuration
alerting:
alertmanagers:
- static_configs:
- targets:
- alertmanager:9093
Load rules once and periodically evaluate them according to the global 'evaluation_interval'.
rule_files:
- "first_rules.yml"
- "second_rules.yml"
A scrape configuration containing exactly one endpoint to scrape:
Here it's Prometheus itself.
scrape_configs:
The job name is added as a label `job=<job_name>` to any timeseries scraped from this config.
- job_name: "prometheus"
metrics_path defaults to '/metrics'
scheme defaults to 'http'.
static_configs:
- targets: ["172.31.34.32:9090"]
- job_name: 'node_exporter'
static_configs:
- targets: ['172.31.34.32:9100']
- job_name: 'prod-server-Cadvisor'
static_configs:
- targets: ['172.31.34.32:9323']
Activate Windows
Go to Settings to activate Windows.
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo M-A Mark Text
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line M-E Redo M-6 Copy Text

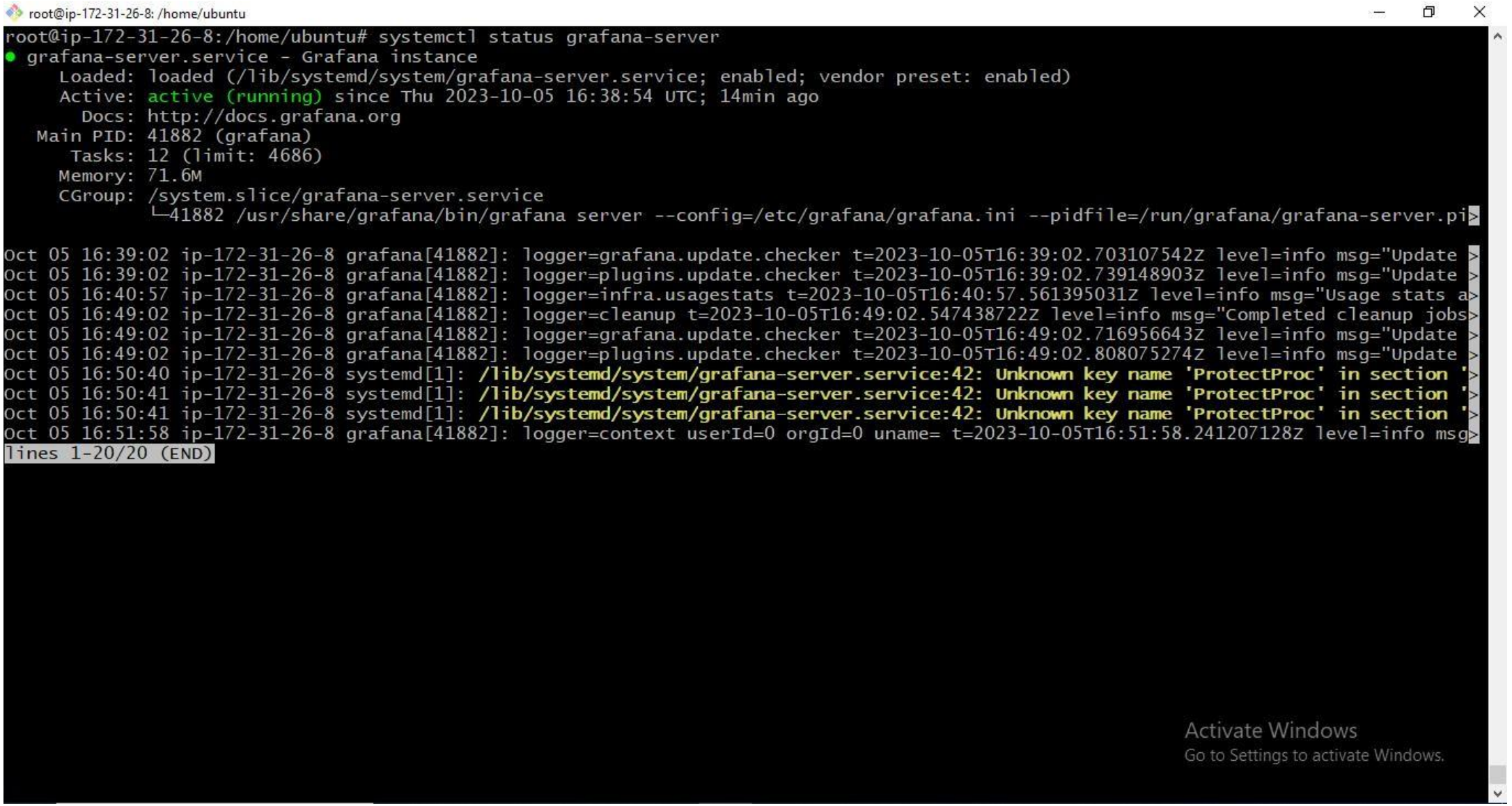
Showing result monitor the running conntainer.

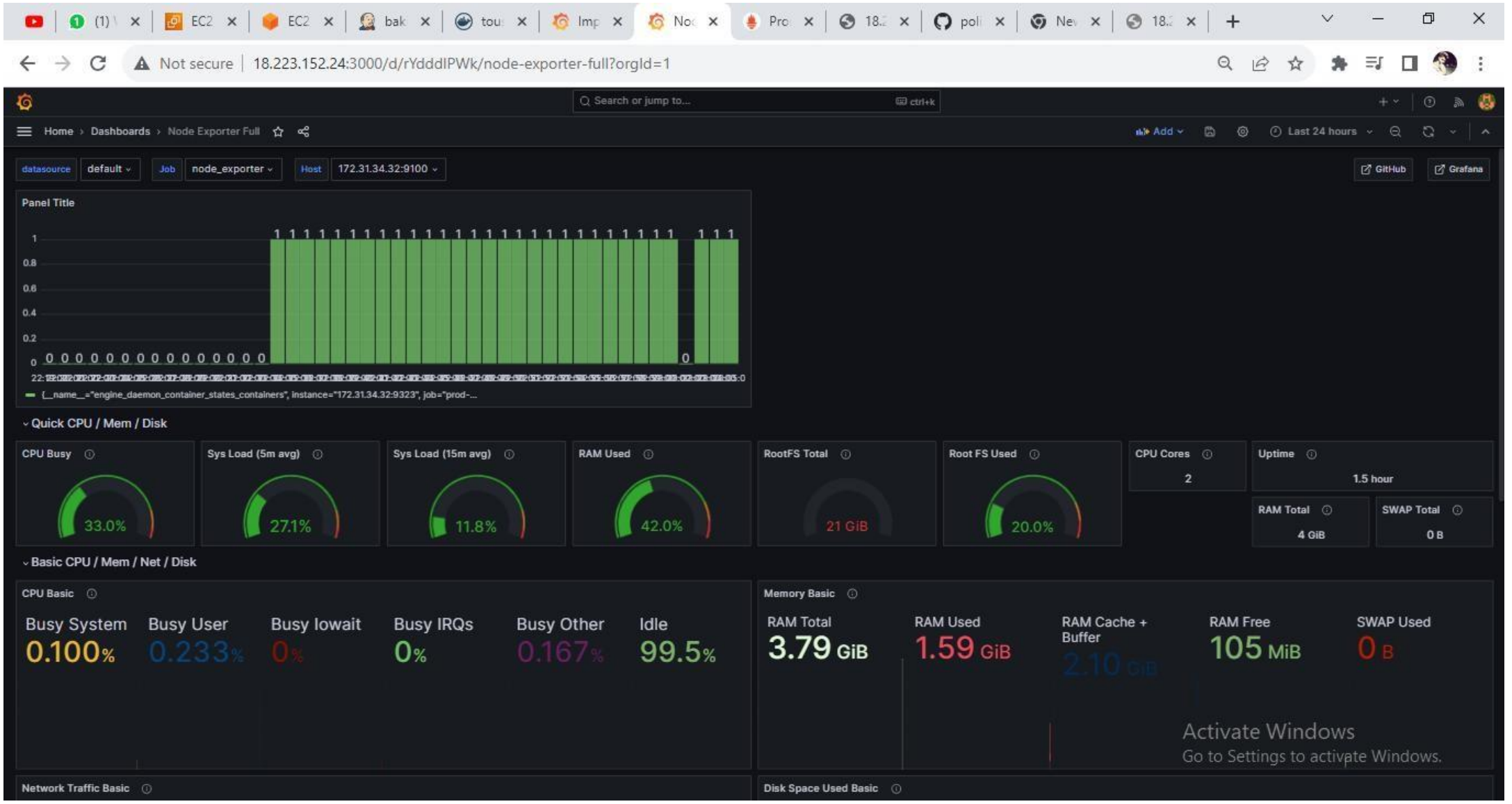


Showing running container.



Setup grafana.




Not secure
18.223.152.24:3000/d/rYdddlPWk/node-exporter-full?orgId=1
Search or jump to...
Home › Dashboards › Node Exporter Full
Add
Last 24 hours
datasource
default
Job
node_exporter
Host
172.31.34.32:9100
GitHub
Grafana
Panel Title
{__name__="engine_daemon_container_states_containers", instance="172.31.34.32:9323", job="prod-...
Quick CPU / Mem / Disk
CPU Busy
33.0%
Sys Load (5m avg)
27.1%
Sys Load (15m avg)
11.8%
RAM Used
42.0%
RootFS Total
21 GiB
Root FS Used
20.0%
CPU Cores
2
Uptime
1.5 hour
RAM Total
4 GiB
SWAP Total
0 B
Basic CPU / Mem / Net / Disk
CPU Basic
Busy System
0.100%
Busy User
0.233%
Busy Iowait
0%
Busy IRQs
0%
Busy Other
0.167%
Idle
99.5%
Memory Basic
RAM Total
3.79 GiB
RAM Used
1.59 GiB
RAM Cache + Buffer
2.10 GiB
RAM Free
105 MiB
SWAP Used
0 B
Activate Windows
Go to Settings to activate Windows.
Network Traffic Basic
Disk Space Used Basic

THANK YOU

STAR AGILE