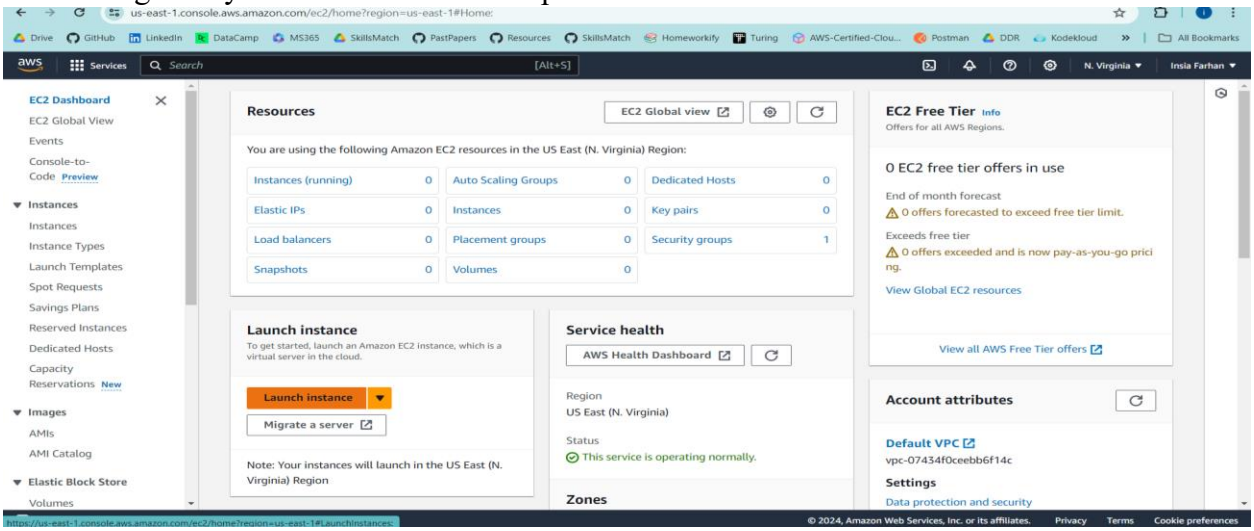
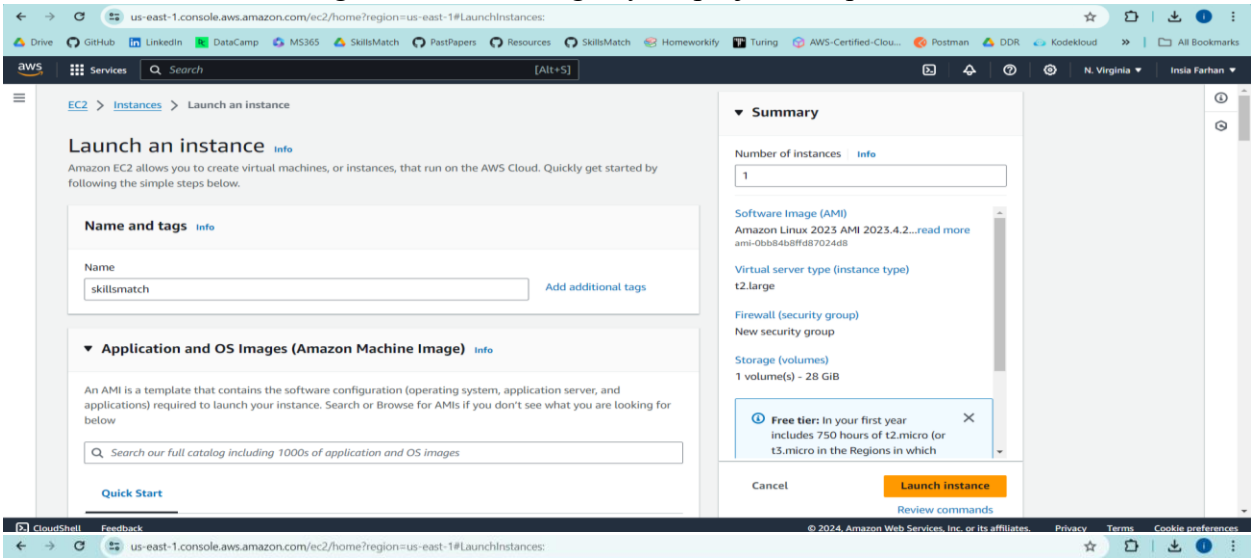
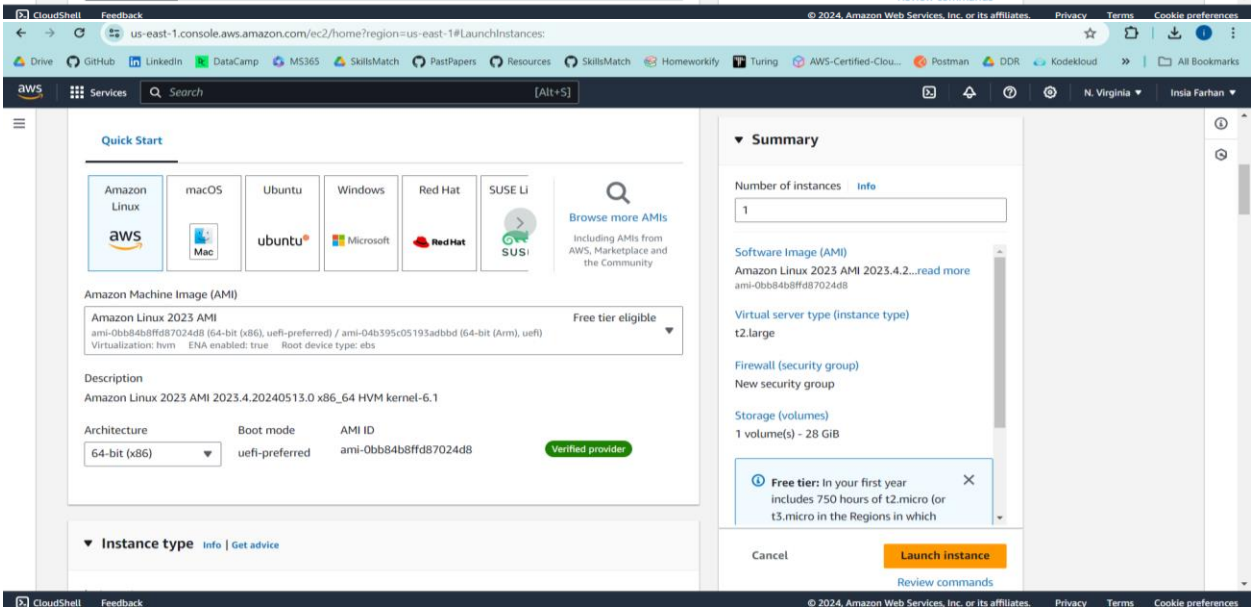
1. Log in to your AWS console and open EC2 via search bar. Click on Launch an instance.

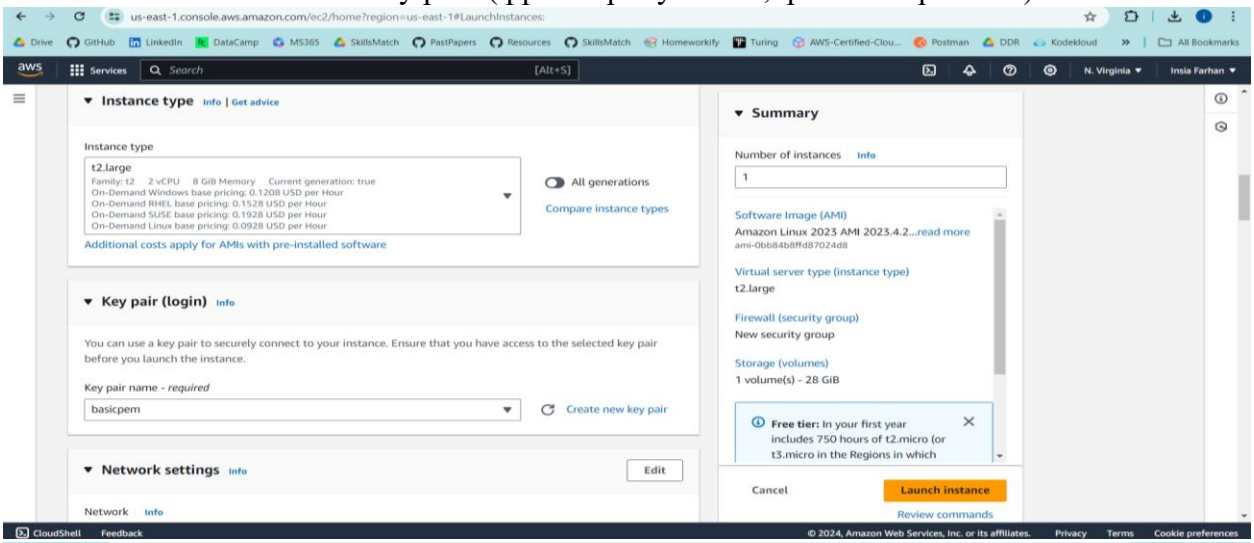


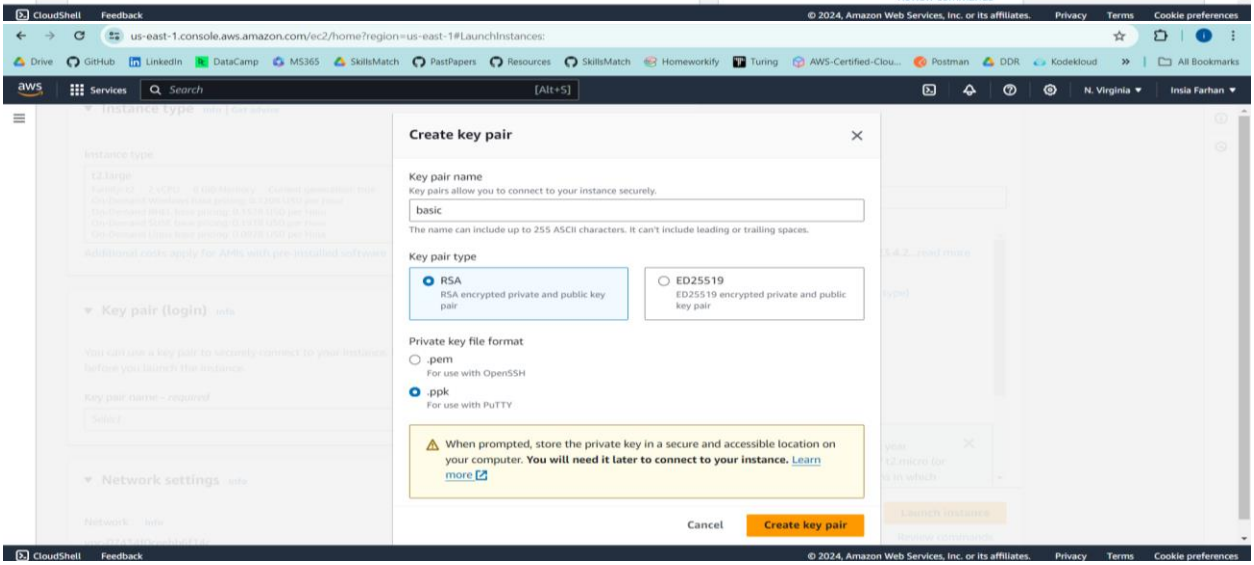
2. Choose EC2 configurations according to your project's requirements.



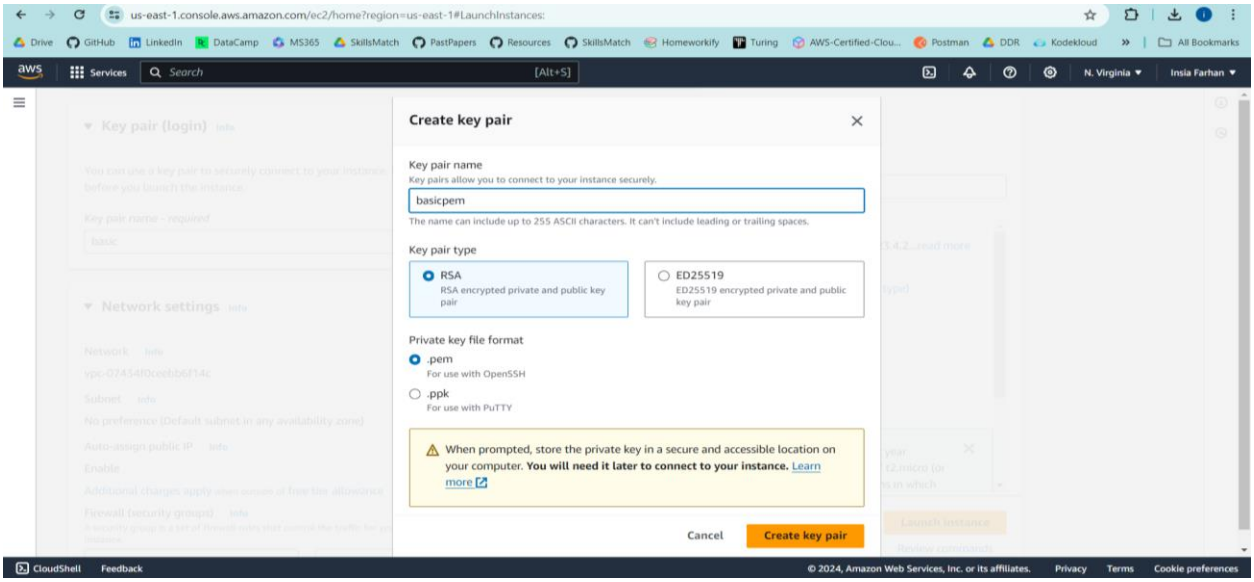


3. Click on Create new key pair. (.ppk for putty access, .pem for OpenSSH)

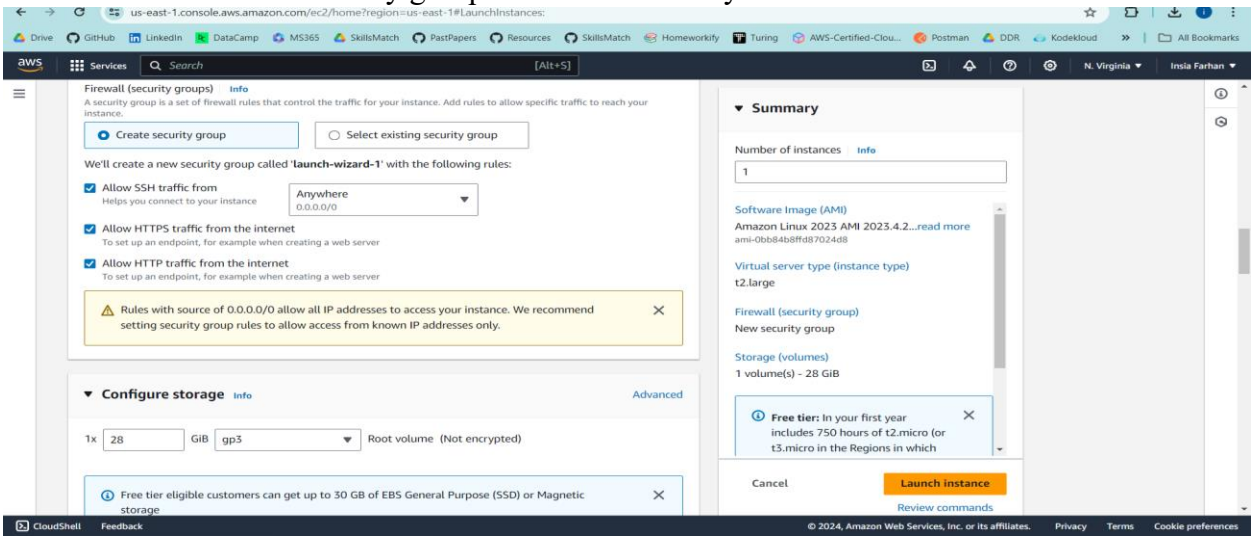




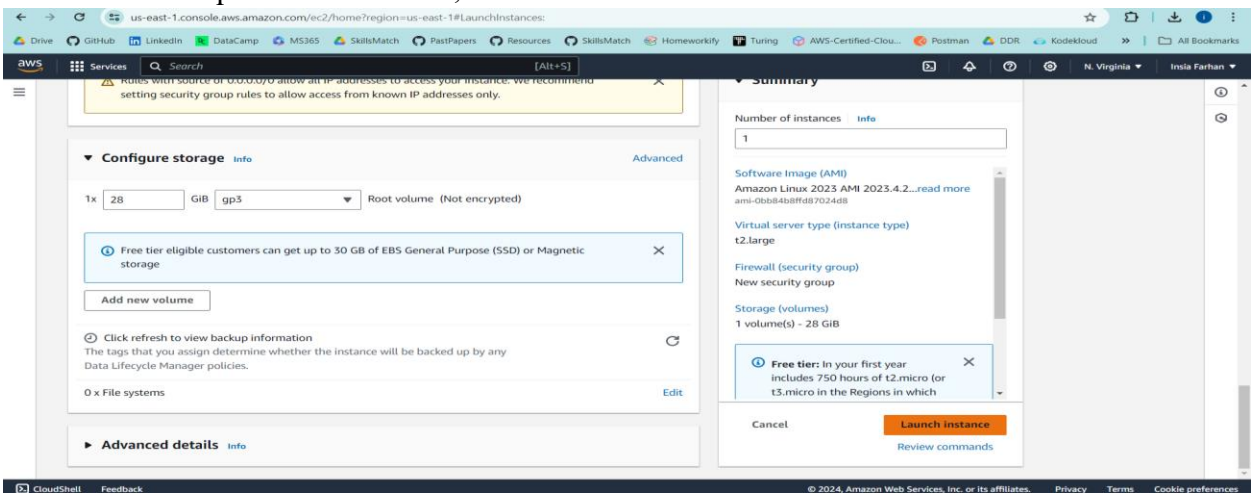
Or:



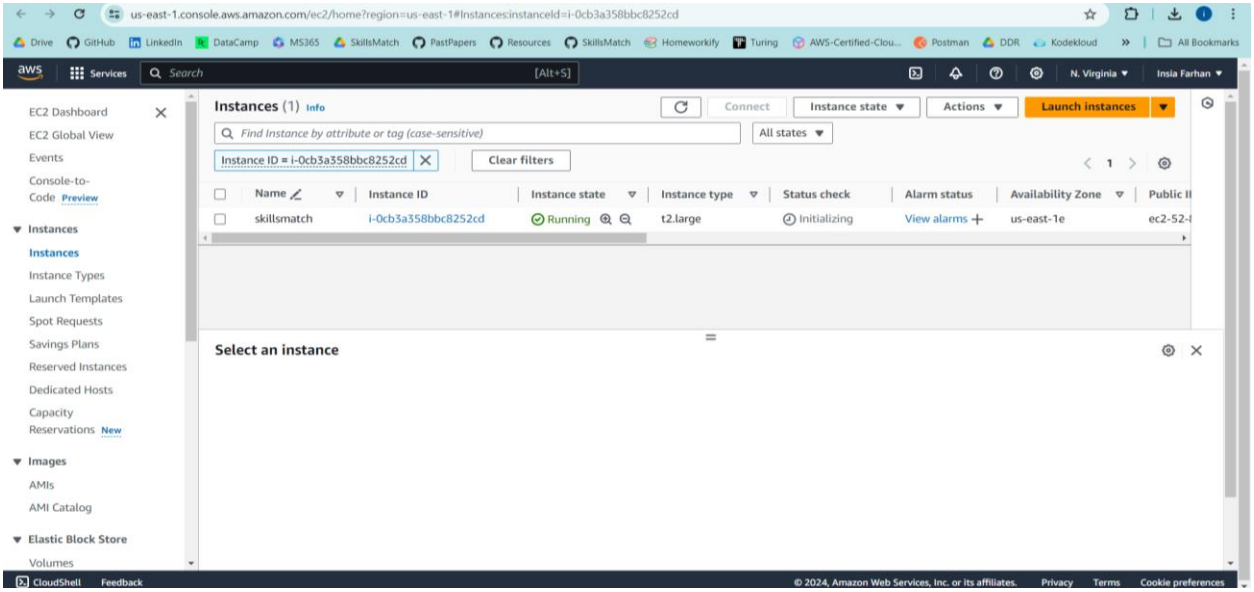
4. Click on create security group for custom security rules.



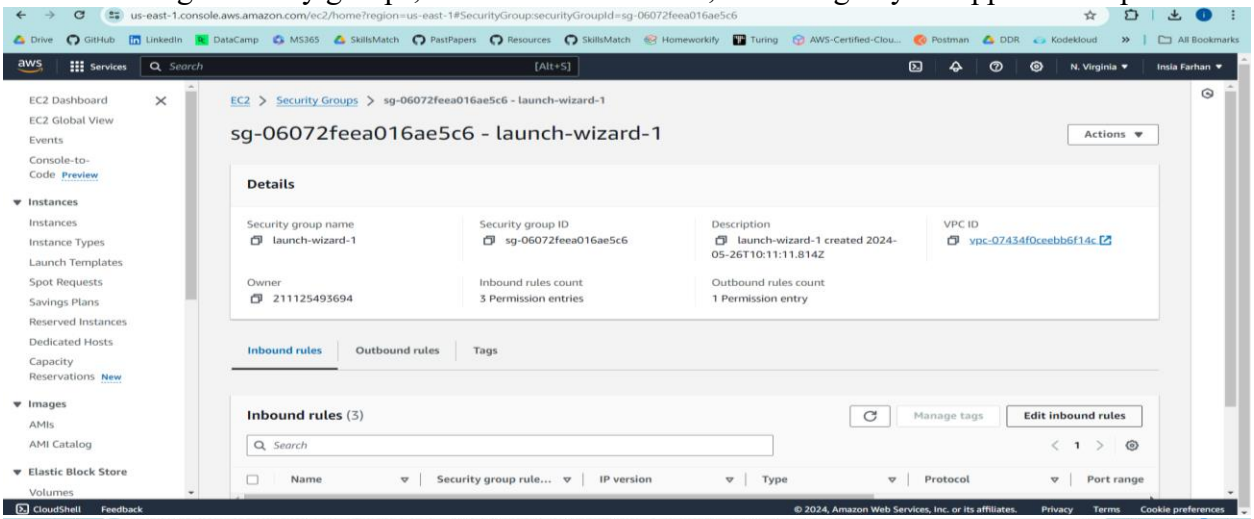
5. When requirements are met, click on Launch instance.

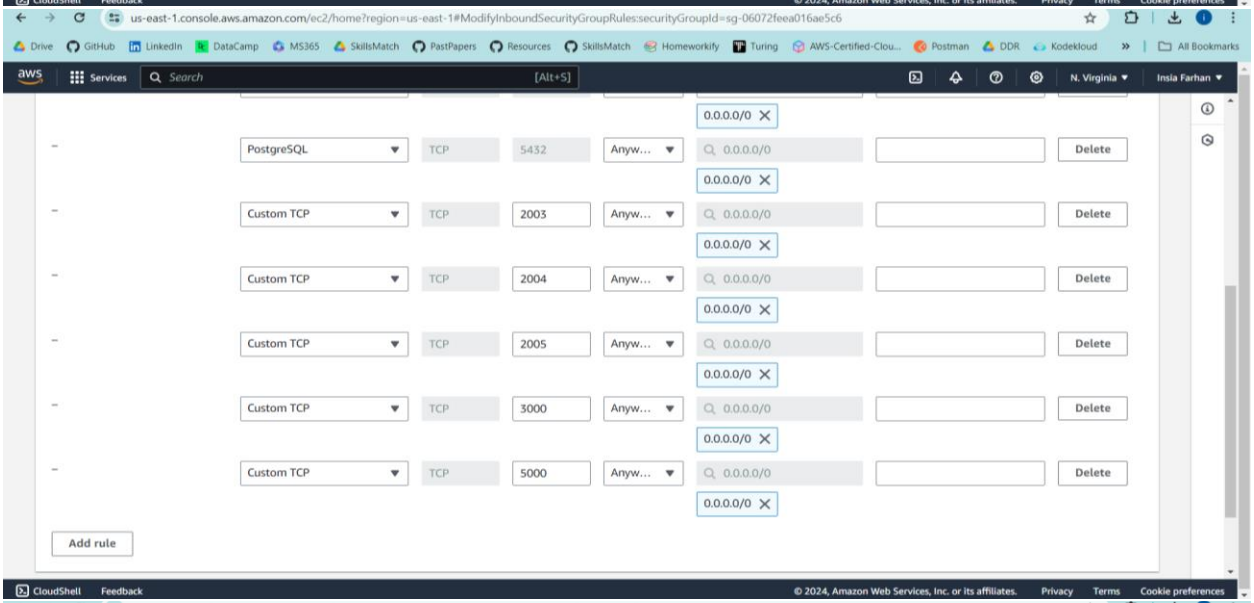


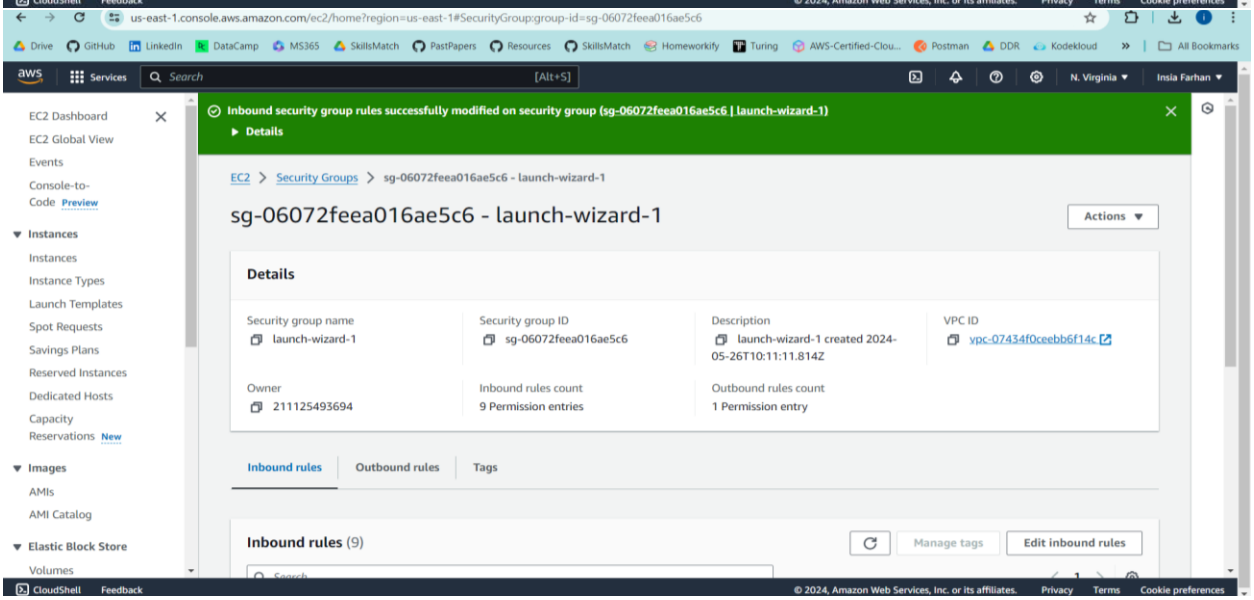
6. Click on the Instance ID for instance details.



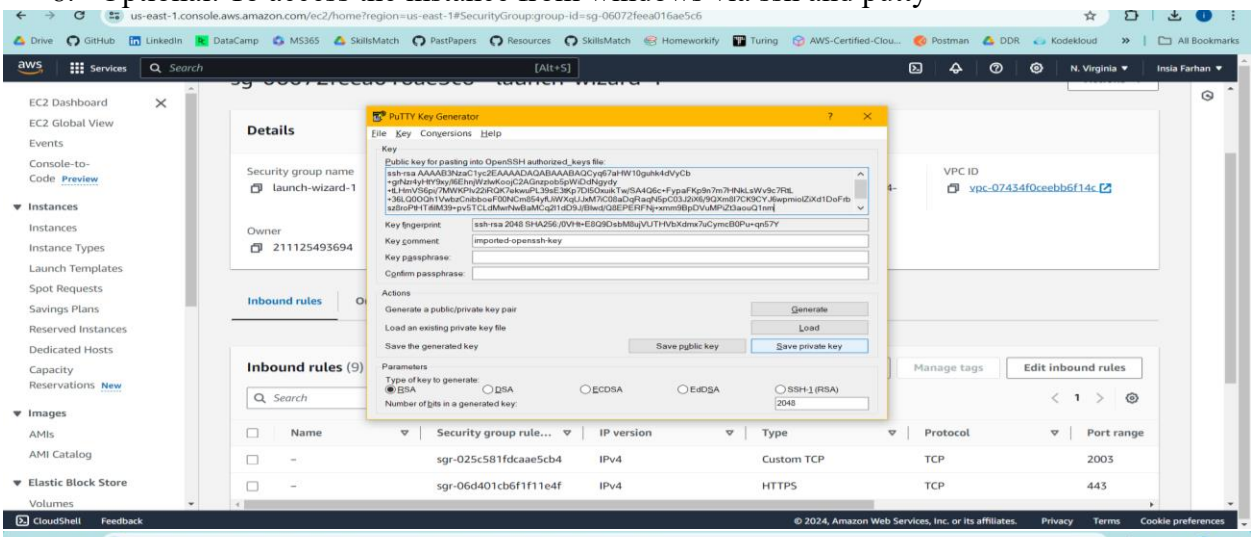
7. Through security groups, edit the inbound rules, according to your applications ports.

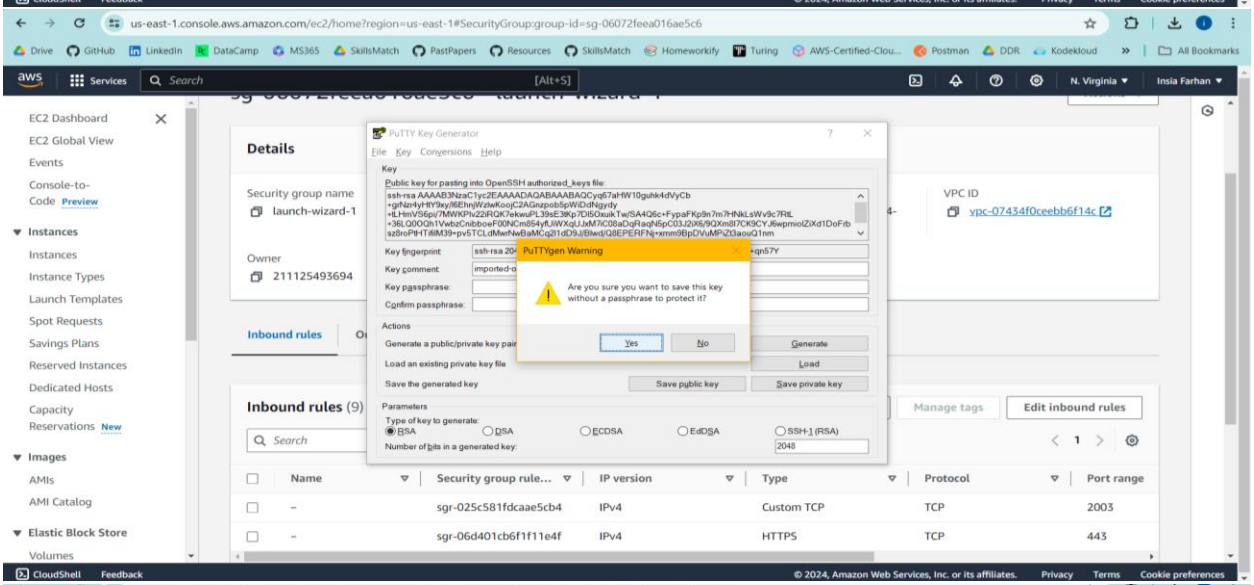


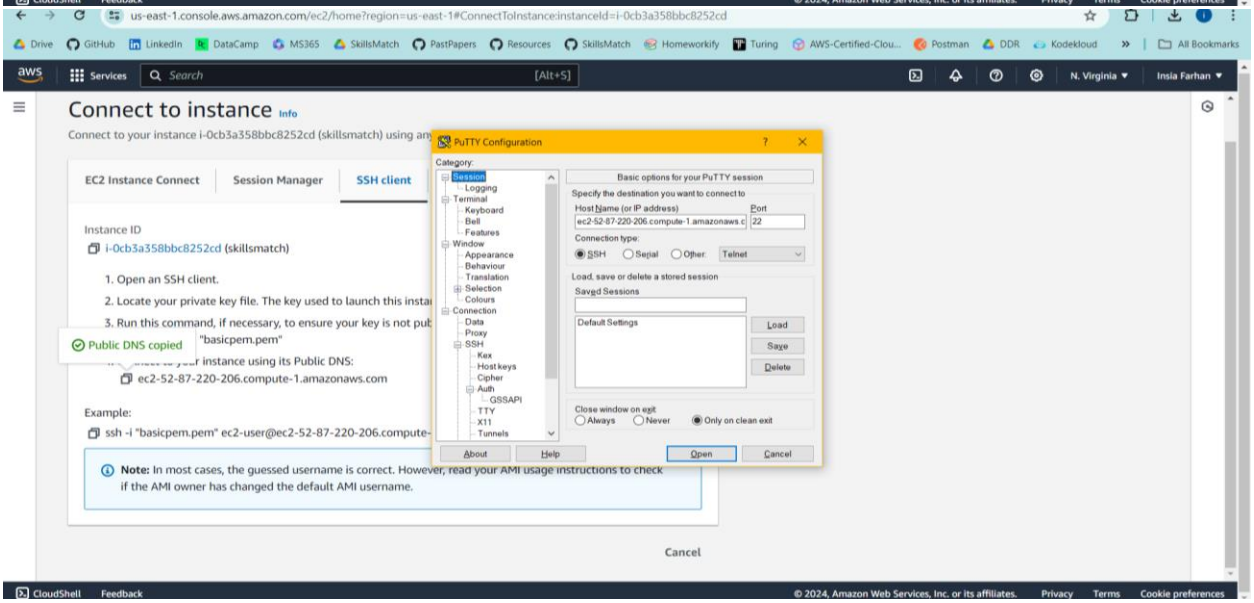


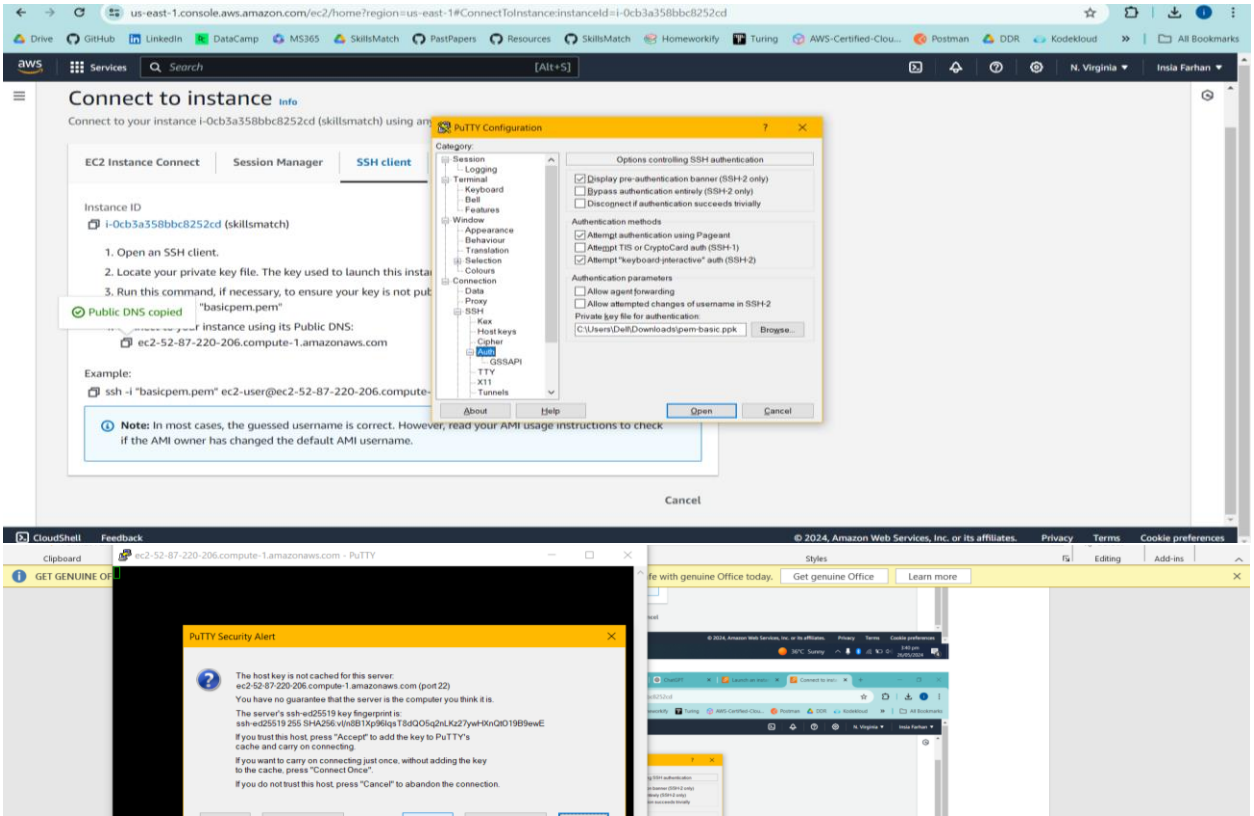


8. Optional: To access the instance from windows via ssh and putty

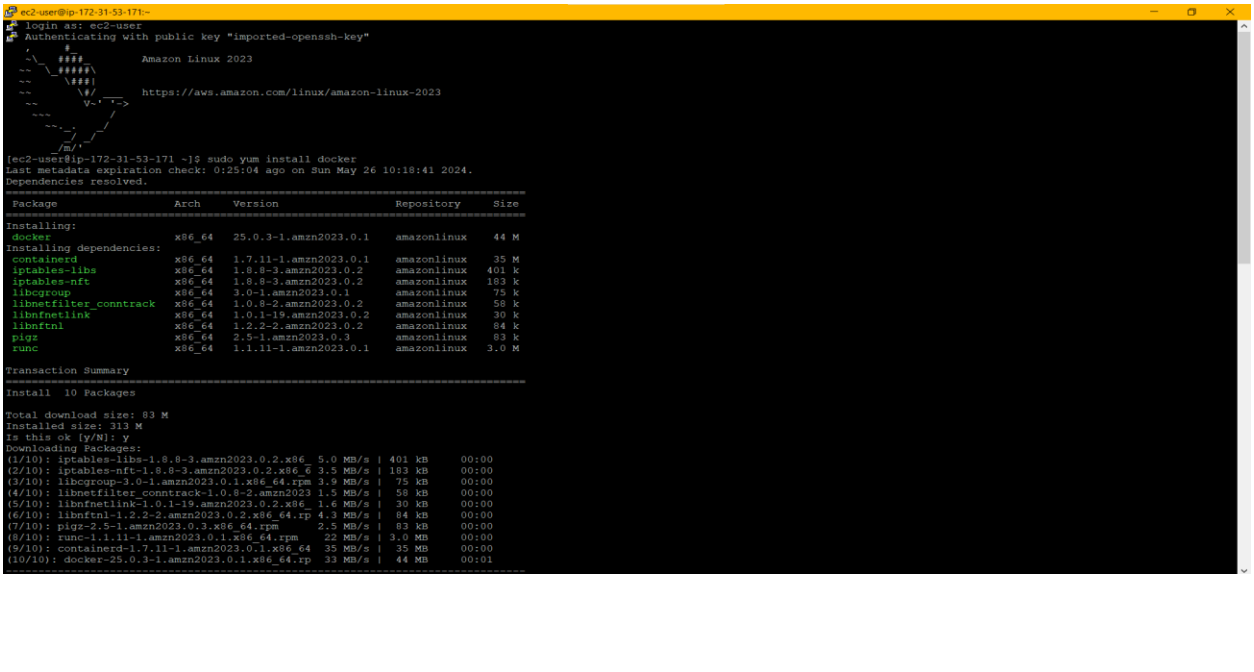


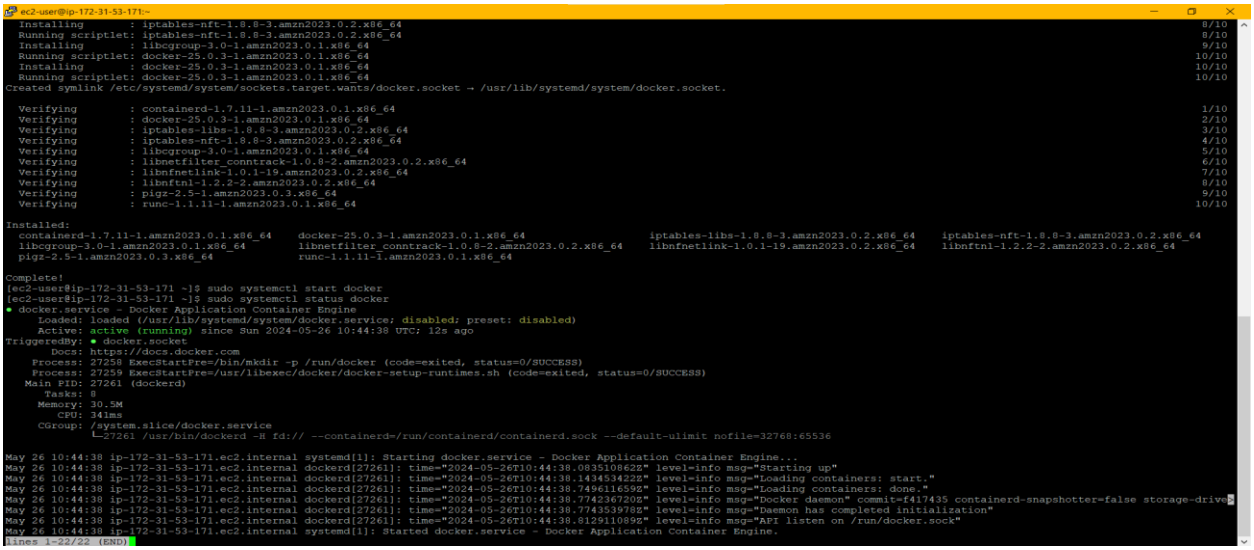




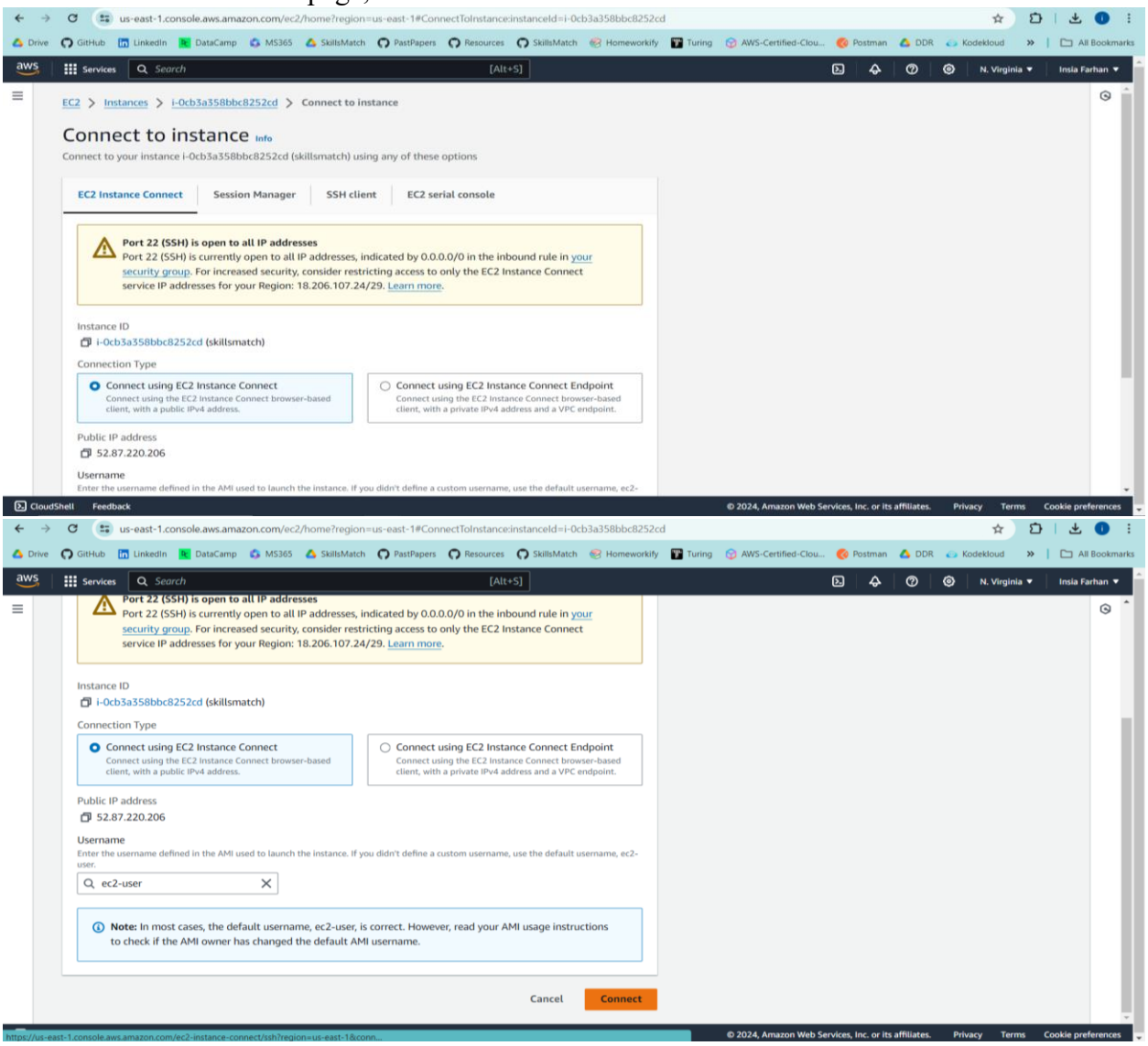

Connect to instance
EC2 Instance Connect
Session Manager
SSH client
Public DNS copied
"basicpem.pem"
ec2-52-87-220-206.compute-1.amazonaws.com
PuTTY Configuration
Open
Cancel

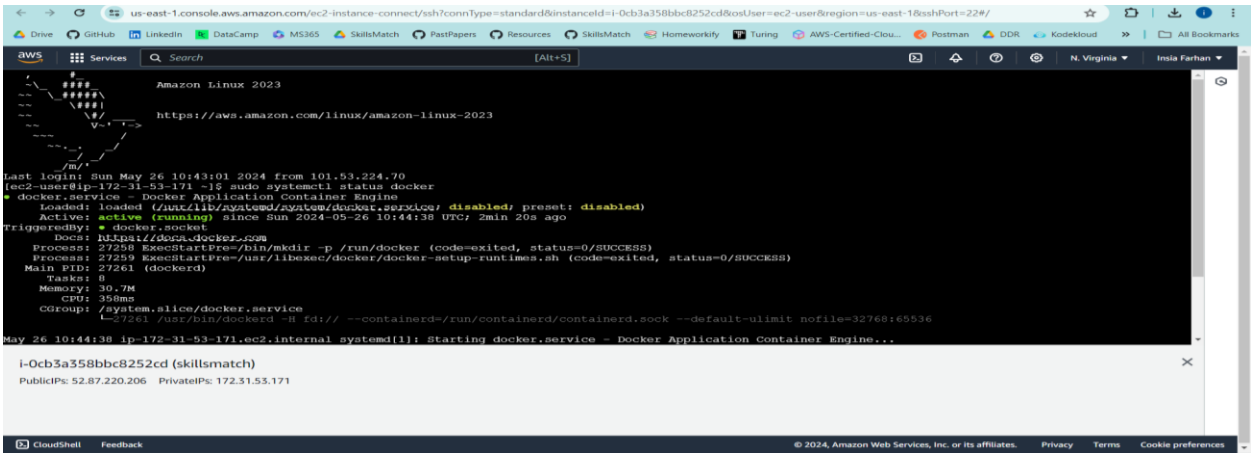
PuTTY Security Alert
The host key is not cached for this server:
ec2-52-87-220-206.compute-1.amazonaws.com (port 22)
You have no guarantee that the server is the computer you think it is.
Accept
Connect Once
Cancel


login as: ec2-user
Authenticating with public key "imported-openssh-key"
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-53-171 ~]$ sudo yum install docker
Last metadata expiration check: 0:25:04 ago on Sun May 26 10:18:41 2024.
Dependencies resolved.
Installing:
docker x86_64 25.0.3-1.amzn2023.0.1 amazonlinux 44 M
Installing dependencies:
containerd x86_64 1.7.11-1.amzn2023.0.1 amazonlinux 35 M
iptables-libs x86_64 1.8.8-3.amzn2023.0.2 amazonlinux 401 k
iptables-nft x86_64 1.8.8-3.amzn2023.0.2 amazonlinux 183 k
libcgroup x86_64 3.0-1.amzn2023.0.1 amazonlinux 75 k
libnetfilter_conntrack x86_64 1.0.8-2.amzn2023.0.2 amazonlinux 58 k
libnfnetlink x86_64 1.0.1-19.amzn2023.0.2 amazonlinux 30 k
libnftnl x86_64 1.2.2-2.amzn2023.0.2 amazonlinux 84 k
pigz x86_64 2.5-1.amzn2023.0.3 amazonlinux 83 k
runc x86_64 1.1.11-1.amzn2023.0.1 amazonlinux 3.0 M
Transaction Summary
Install 10 Packages
Total download size: 83 M
Installed size: 313 M
Is this ok [y/N]: y
Downloading Packages:
(1/10): iptables-libs-1.8.8-3.amzn2023.0.2.x86_ 5.0 MB/s | 401 kB 00:00
(2/10): iptables-nft-1.8.8-3.amzn2023.0.2.x86_6 3.5 MB/s | 183 kB 00:00
(3/10): libcgroup-3.0-1.amzn2023.0.1.x86_64.rpm 3.9 MB/s | 75 kB 00:00
(4/10): libnetfilter_conntrack-1.0.8-2.amzn2023 1.5 MB/s | 58 kB 00:00
(5/10): libnfnetlink-1.0.1-19.amzn2023.0.2.x86_ 1.6 MB/s | 30 kB 00:00
(6/10): libnftnl-1.2.2-2.amzn2023.0.2.x86_64.rp 4.3 MB/s | 84 kB 00:00
(7/10): pigz-2.5-1.amzn2023.0.3.x86_64.rpm 2.5 MB/s | 83 kB 00:00
(8/10): runc-1.1.11-1.amzn2023.0.1.x86_64.rpm 22 MB/s | 3.0 MB 00:00
(9/10): containerd-1.7.11-1.amzn2023.0.1.x86_64 35 MB/s | 35 MB 00:00
(10/10): docker-25.0.3-1.amzn2023.0.1.x86_64.rp 33 MB/s | 44 MB 00:01

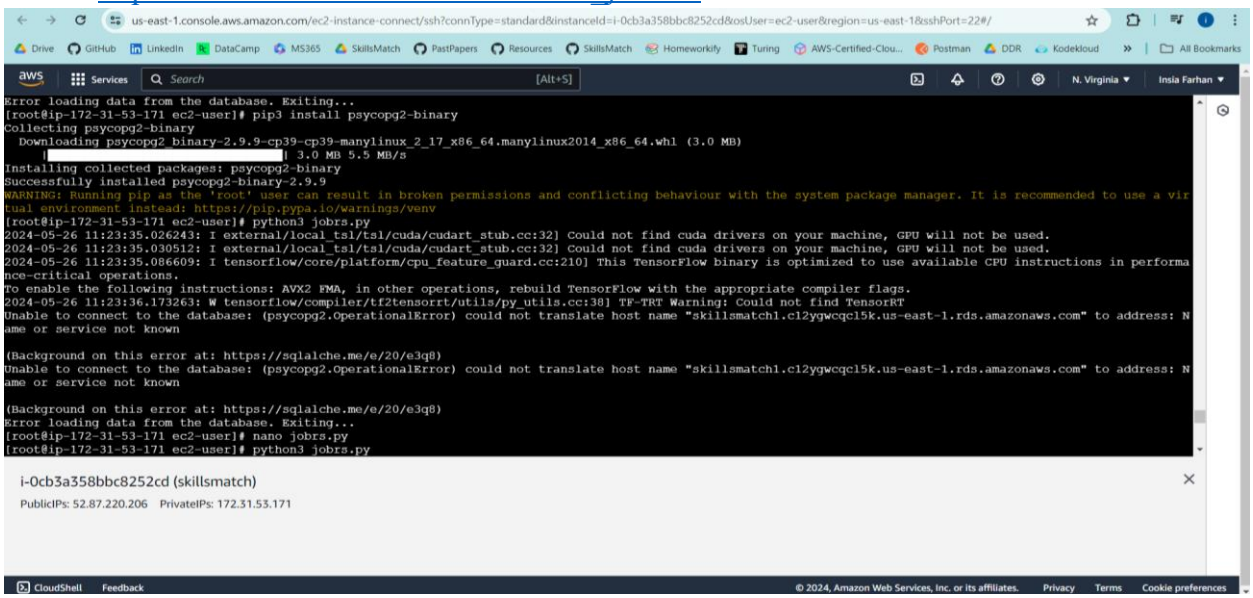


9. On EC2 instances page, click on the instance ID and click on Connect.

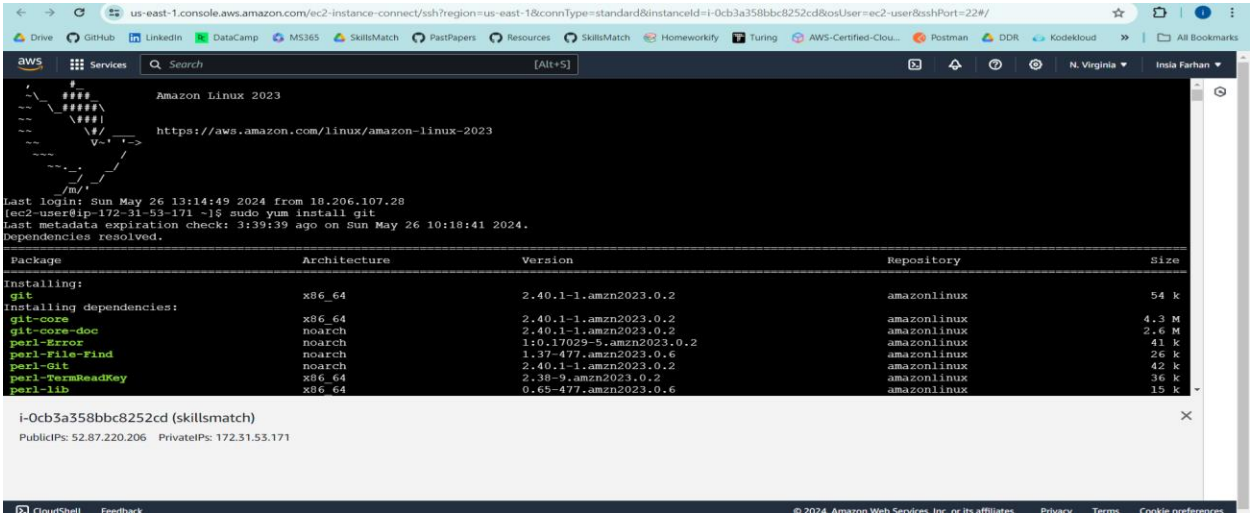


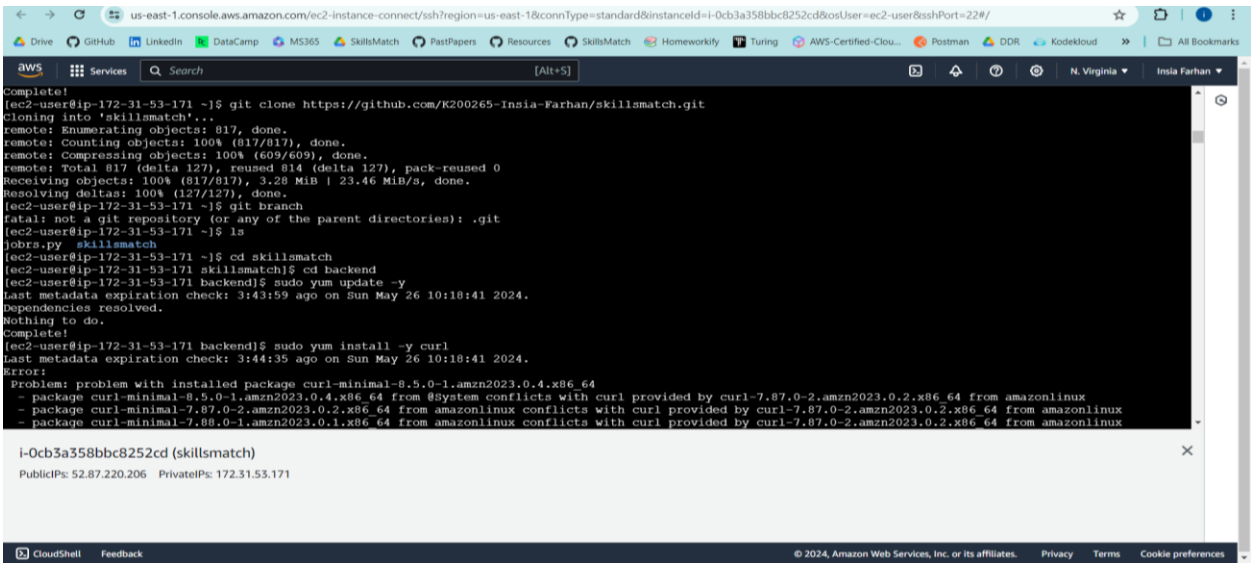


10. Install all the required dependencies of your project, create code's file, copy code in it, run it, and access through public URL. For example: http://52.87.220.226:2003/recommend_jobs/11

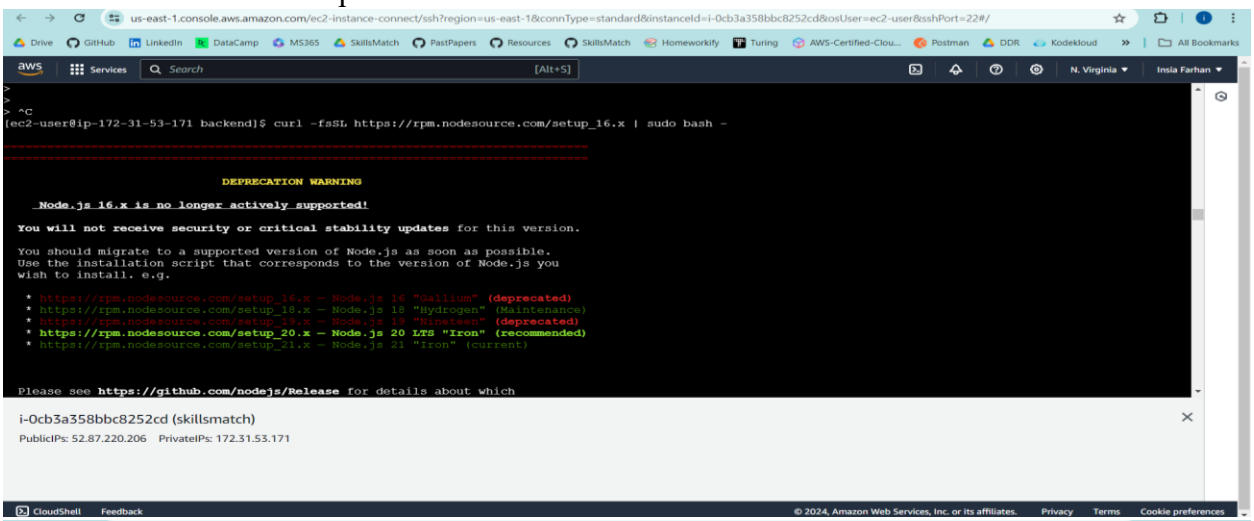


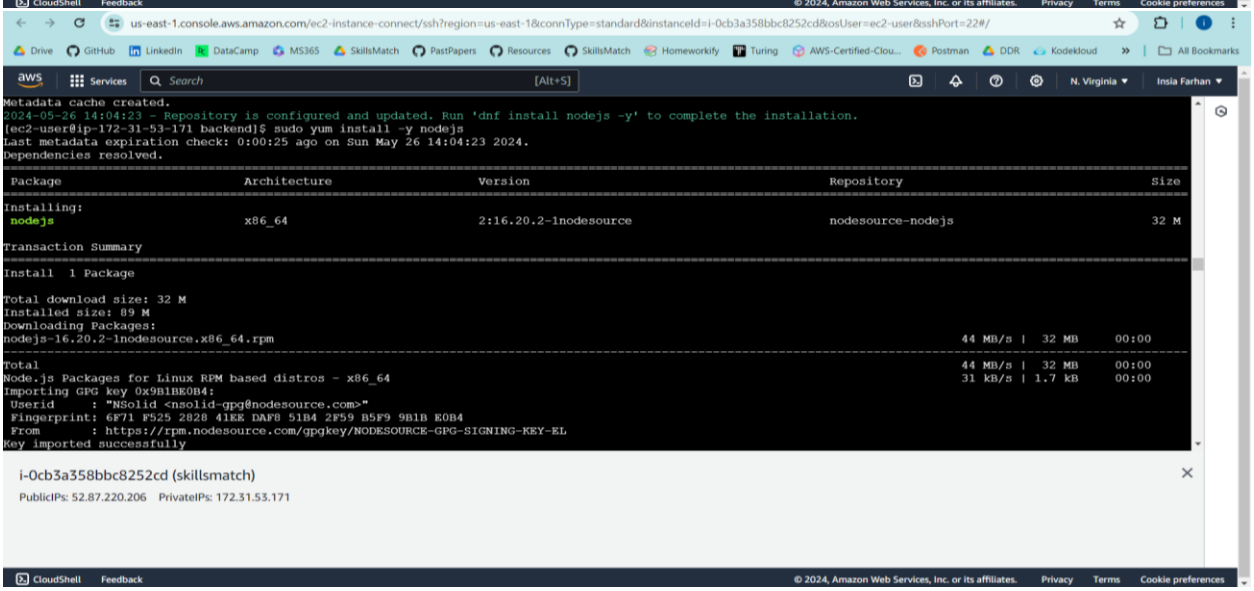
11. Backend code copying from GitHub.

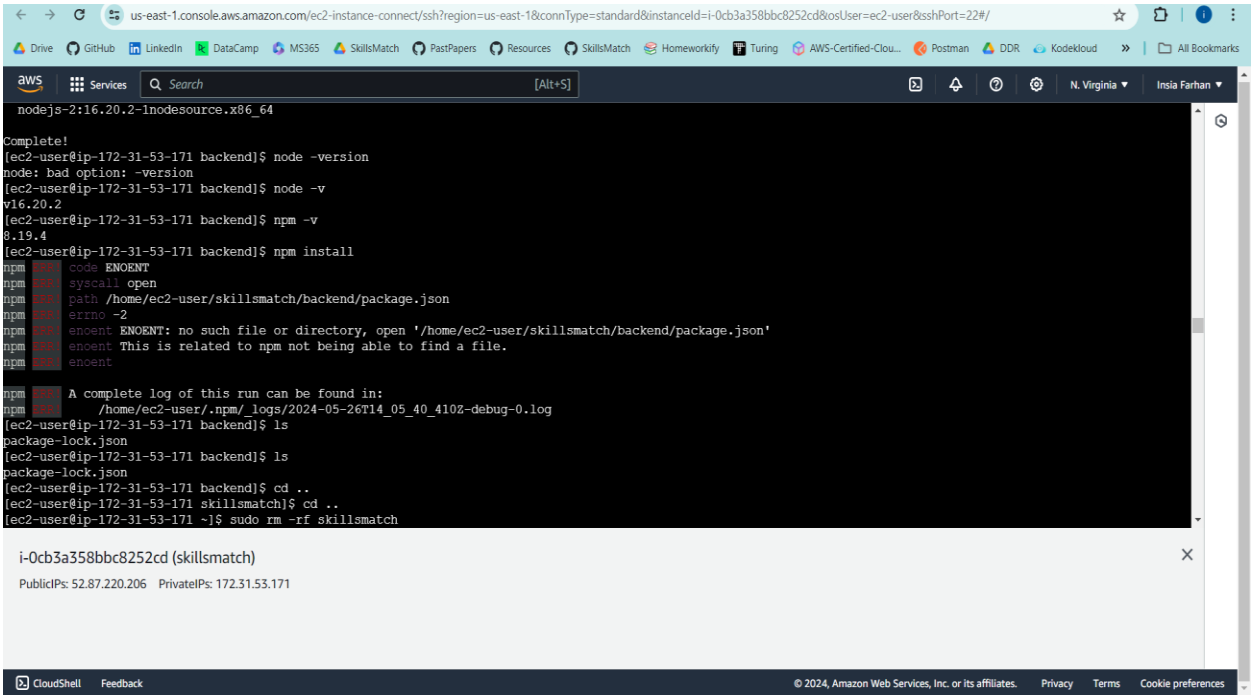




12. Backend code's dependencies installations.







13. Running backend code.