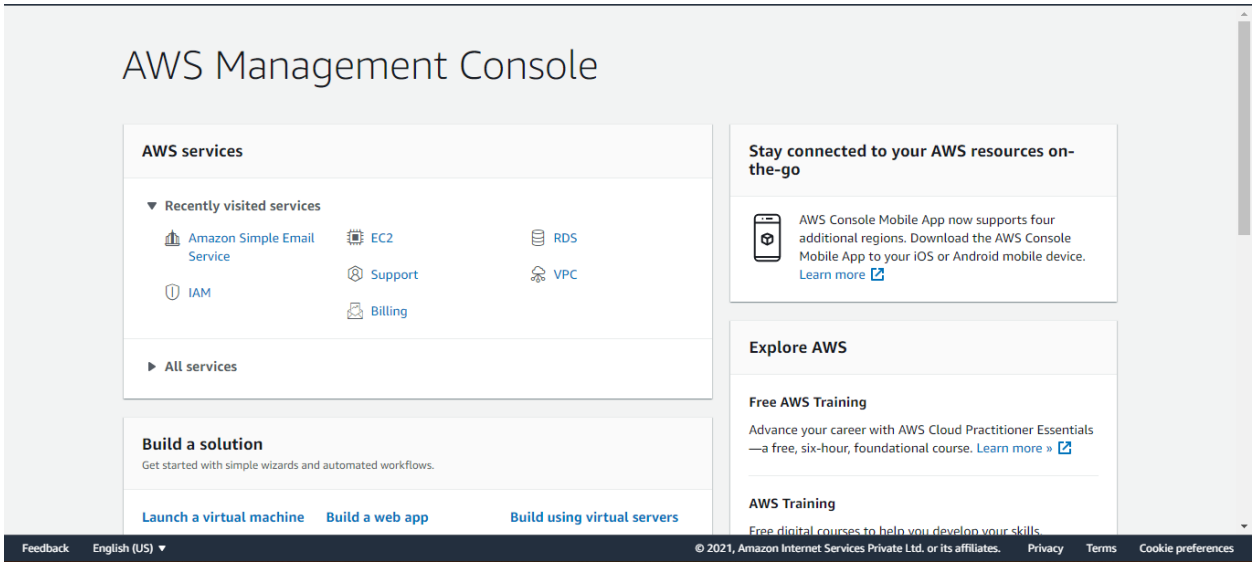
Steps we followed:

1. We signed up on aws.amazon.com
2. We were asked to enter a credit card in order to activate our account.
3. We selected ap-south-1 or Mumbai region for our VM.
4. We deployed an Ubuntu instance which is covered by the Free Tier by AWS.
5. In inbound rules, we allowed TCP Connections from any IP to Port 8548 alongside other ports like standard ports like 80, 443 and 3306 for HTTP, HTTPS and MySQL.
6. After deploying the machine, we generated an SSH Key on Puttygen and imported the key into the AWS EC2.
7. We then connected to our VM using the SSH Keys and deployed the server end code on the machine.
8. In server.py, the IP defined on the code was now 0.0.0.0 since the IP was of the current machine. The port is 8548.
9. We then run the server.py file.
10. In our client.py on our local machine, we will put the External IP of the machine which is 13.126.74.251 with the port 8548. The security group config will let us ping this port.
11. For the code to run in the background for up to 24 hours, we use the "screen" command and run the script of server.py in that. That way, the script runs until the machine is rebooted or up to 24 hours, whichever first.

[Screenshots are in the next page]


AWS Management Console
AWS services
Recently visited services
Amazon Simple Email Service
EC2
RDS
IAM
Support
VPC
Billing
All services
Build a solution
Get started with simple wizards and automated workflows.
Launch a virtual machine
Build a web app
Build using virtual servers
Stay connected to your AWS resources on-the-go
AWS Console Mobile App now supports four additional regions. Download the AWS Console Mobile App to your iOS or Android mobile device.
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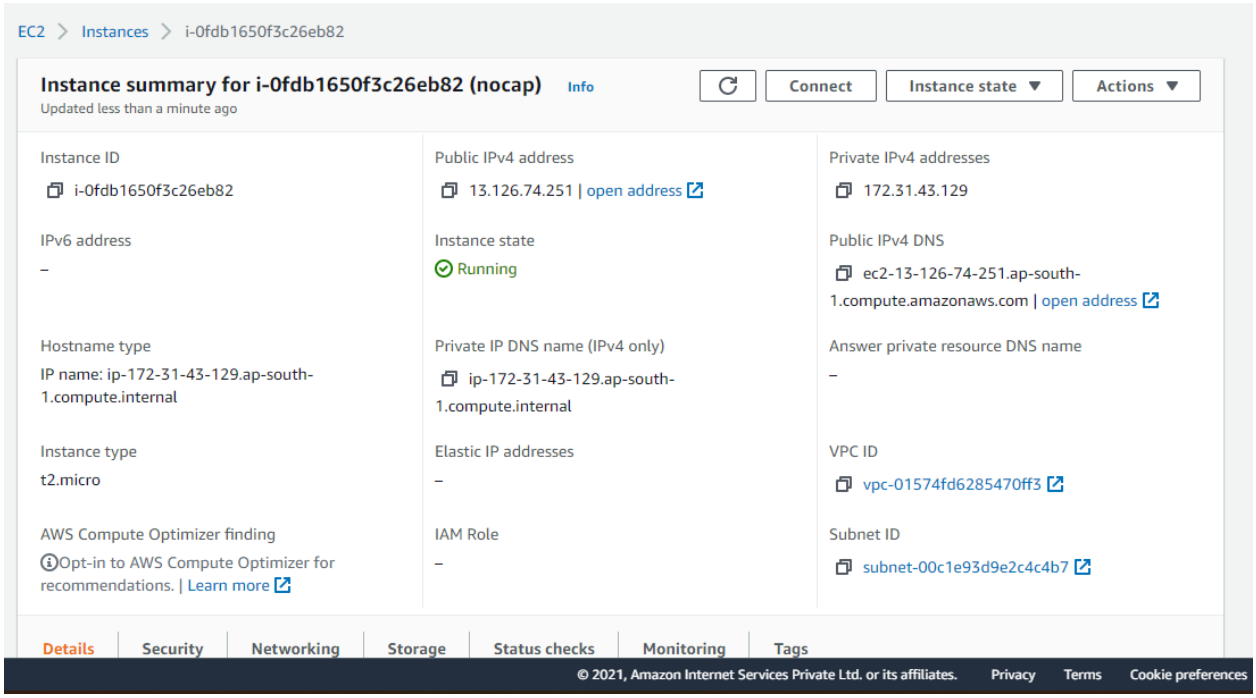
EC2 > Instances > i-0fdb1650f3c26eb82
Instance summary for i-0fdb1650f3c26eb82 (nocap)
Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-0fdb1650f3c26eb82
Public IPv4 address
13.126.74.251 | open address
Private IPv4 addresses
172.31.43.129
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-13-126-74-251.ap-south-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-43-129.ap-south-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-43-129.ap-south-1.compute.internal
Answer private resource DNS name
–
Instance type
t2.micro
Elastic IP addresses
–
VPC ID
vpc-01574fd6285470ff3
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role
–
Subnet ID
subnet-00c1e93d9e2c4c4b7
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
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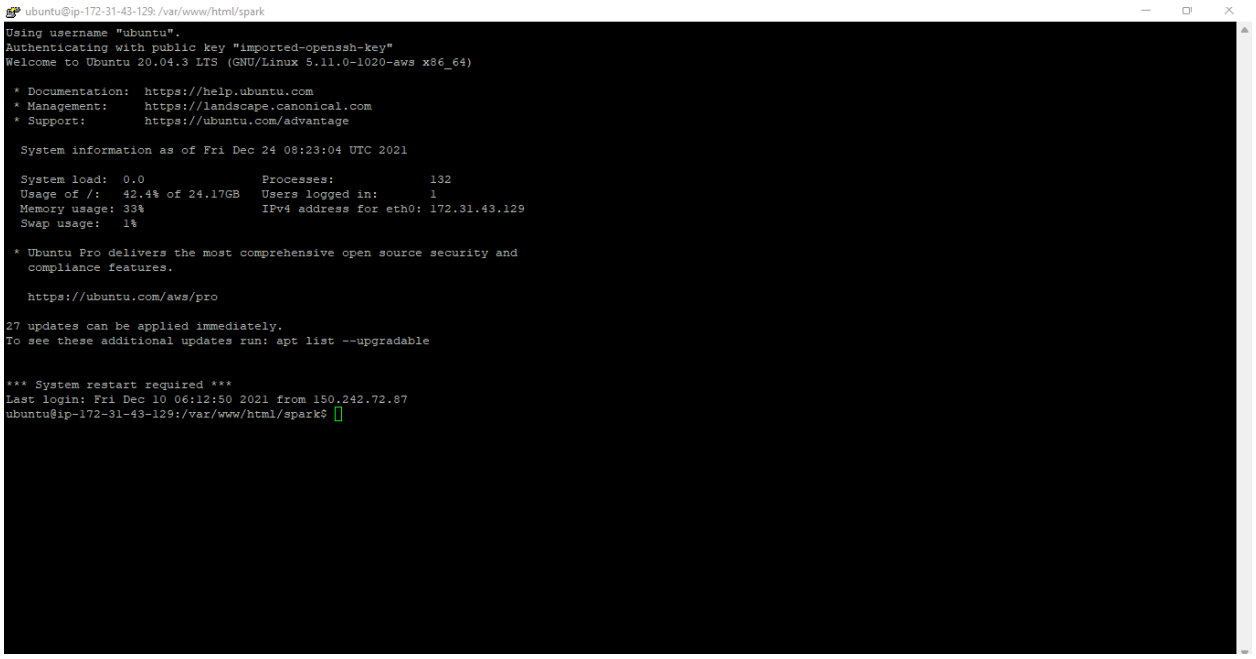
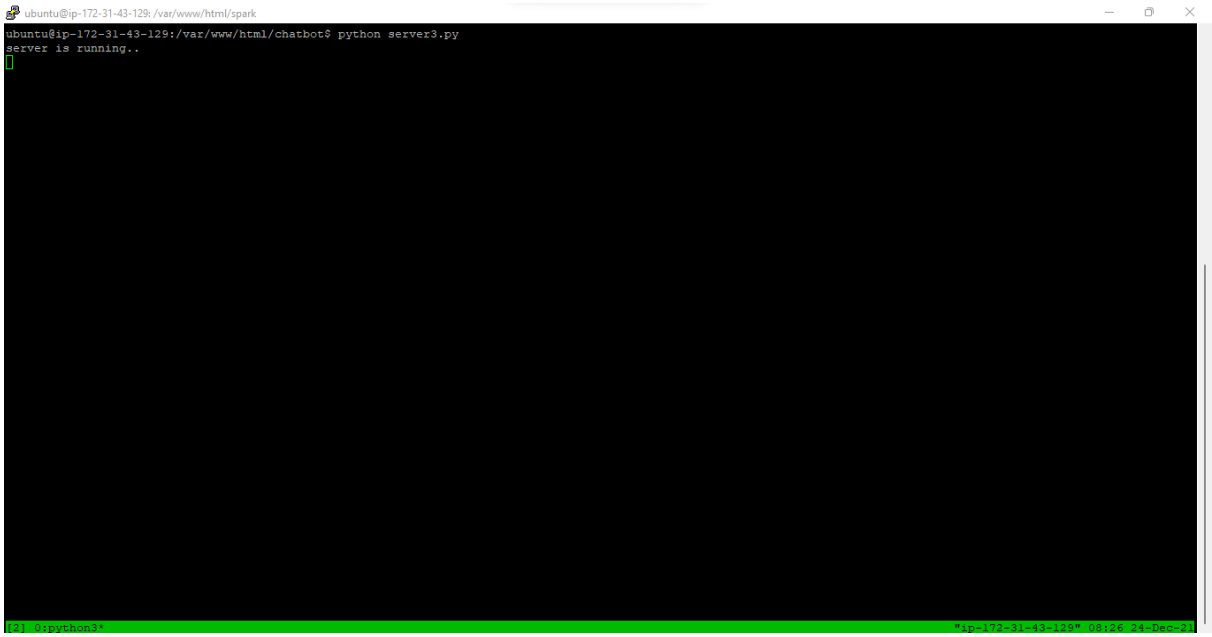
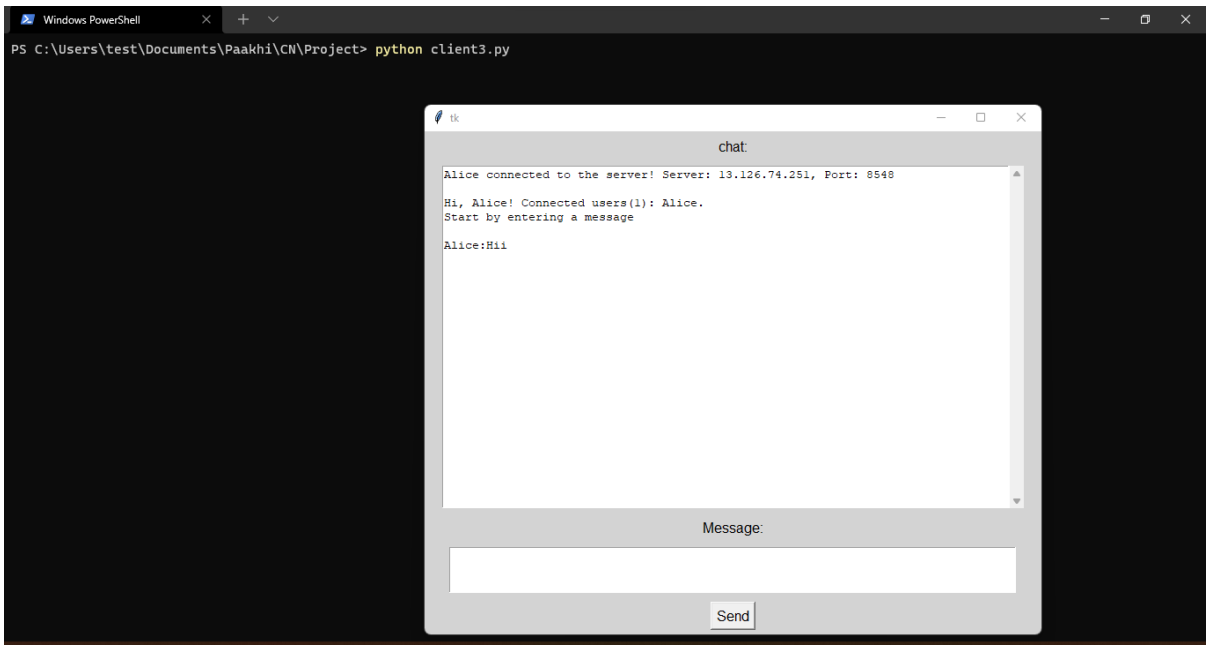
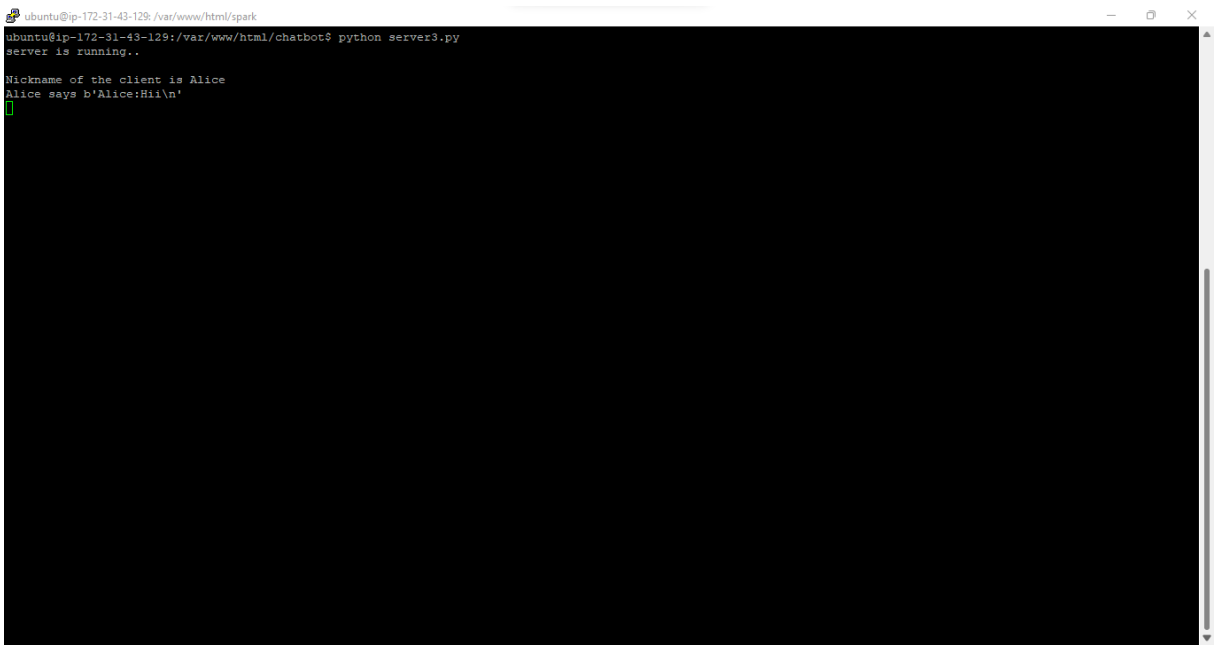

ubuntu@ip-172-31-43-129: /var/www/html/spark
Using username "ubuntu".
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1020-aws x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
System information as of Fri Dec 24 08:23:04 UTC 2021
System load: 0.0
Processes: 132
Usage of /: 42.4% of 24.17GB
Users logged in: 1
Memory usage: 33%
IPv4 address for eth0: 172.31.43.129
Swap usage: 1%
* Ubuntu Pro delivers the most comprehensive open source security and compliance features.
https://ubuntu.com/aws/pro
27 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
*** System restart required ***
Last login: Fri Dec 10 06:12:50 2021 from 150.242.72.87
ubuntu@ip-172-31-43-129:/var/www/html/spark$


ubuntu@ip-172-31-43-129: /var/www/html/spark
ubuntu@ip-172-31-43-129:/var/www/html/chatbot$ python server3.py
server is running..
[2] 0:python3*
"ip-172-31-43-129" 08:26 24-Dec-21


Windows PowerShell
PS C:\Users\test\Documents\Paakhi\CN\Project> python client3.py
tk
chat:
Alice connected to the server! Server: 13.126.74.251, Port: 8548
Hi, Alice! Connected users(1): Alice.
Start by entering a message
Alice:Hii
Message:
Send


ubuntu@ip-172-31-43-129: /var/www/html/spark
ubuntu@ip-172-31-43-129:/var/www/html/chatbot$ python server3.py
server is running..
Nickname of the client is Alice
Alice says b'Alice:Hii\n'