SSH

Experiment: 5

Aim: Installation of Open SSH between two ubuntu machines.

Description:

Remote File Sharing using SSH

OpenSSH is a powerful collection of tools for the remote control of, and transfer of data between, networked computers. You will also learn about some of the configuration settings possible with the OpenSSH server application and how to change them on your Ubuntu system.
OpenSSH is a freely available version of the Secure Shell (SSH) protocol family of tools for remotely controlling, or transferring files between computers. Traditional tools used to accomplish these functions, such as telnet or rcp, are insecure and transmit the user's password in cleartext when used. OpenSSH provides a server daemon and client tools to facilitate secure, encrypted remote control and file transfer operations, effectively replacing the legacy tools.

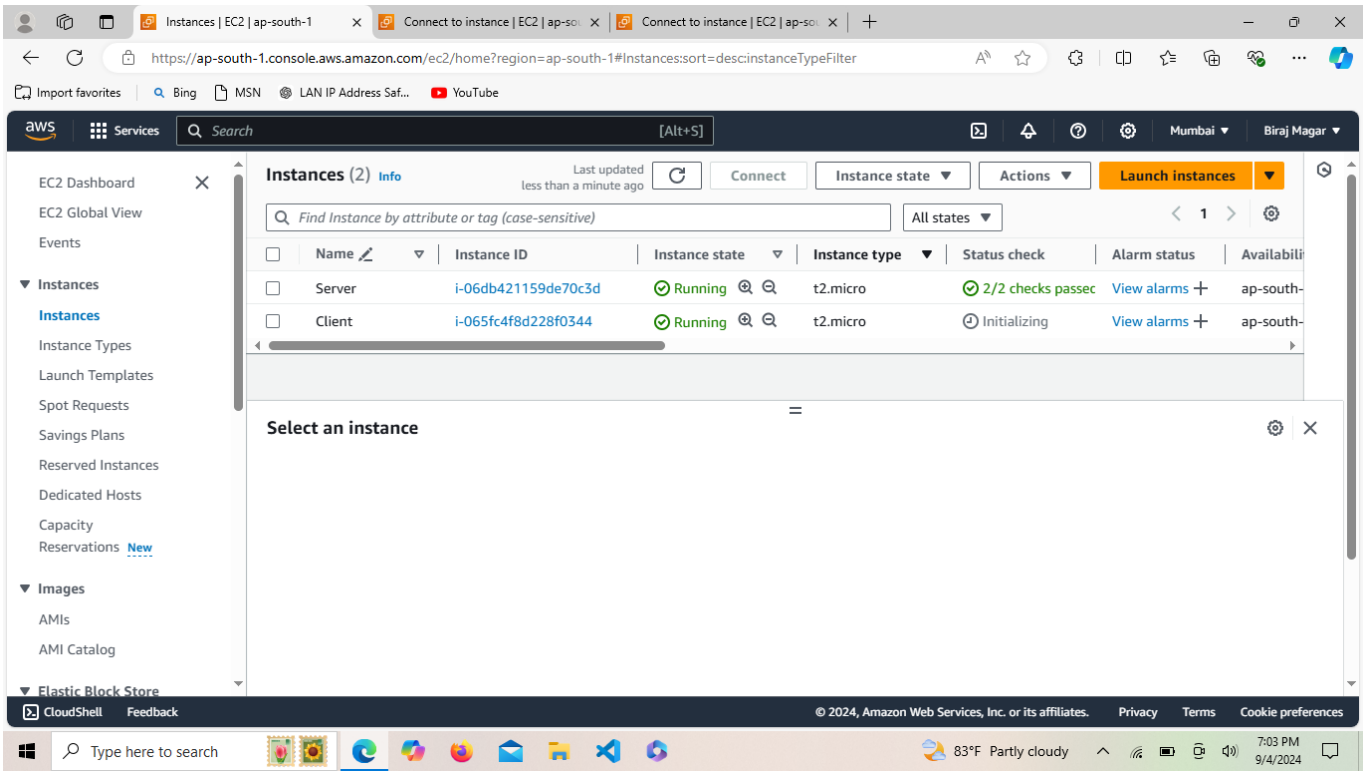
Port No: 22

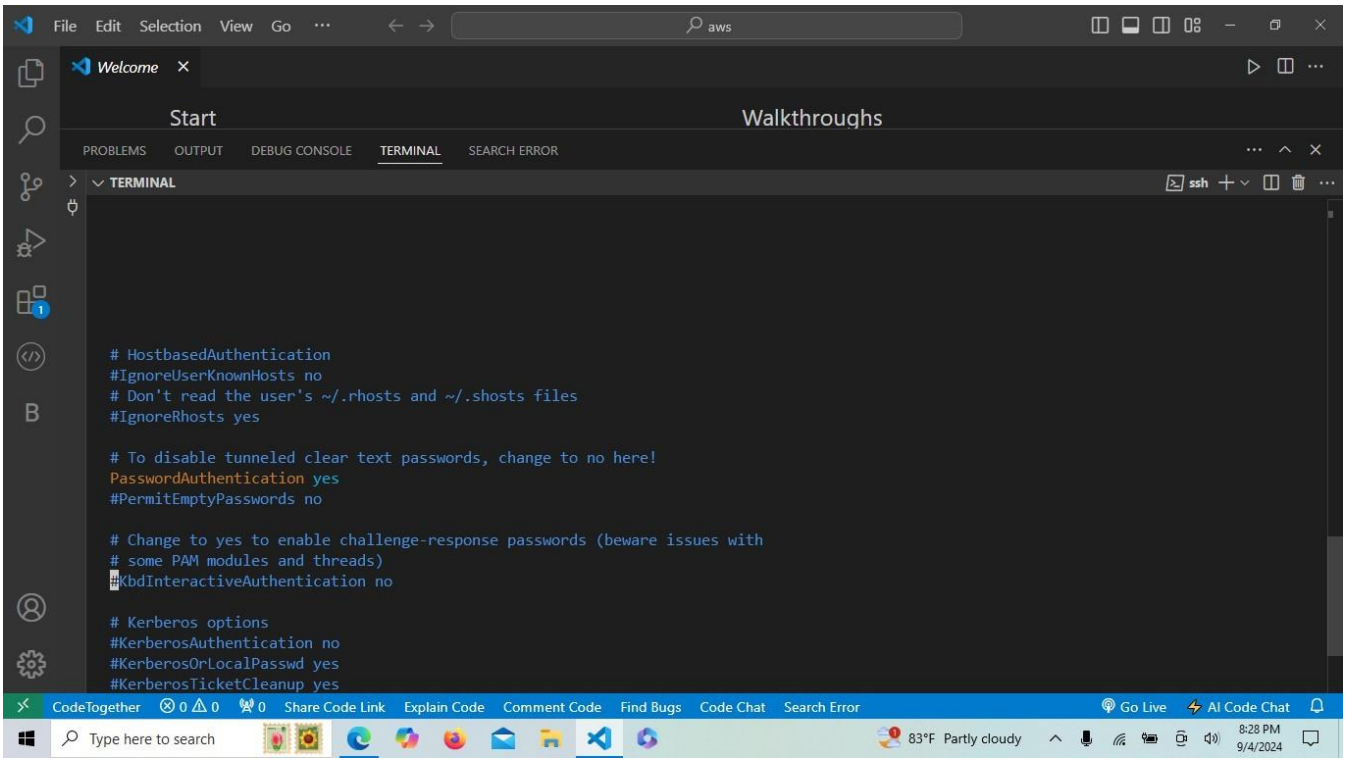
Package name: openssh-client
Configuration file: /etc/ssh/sshd_config

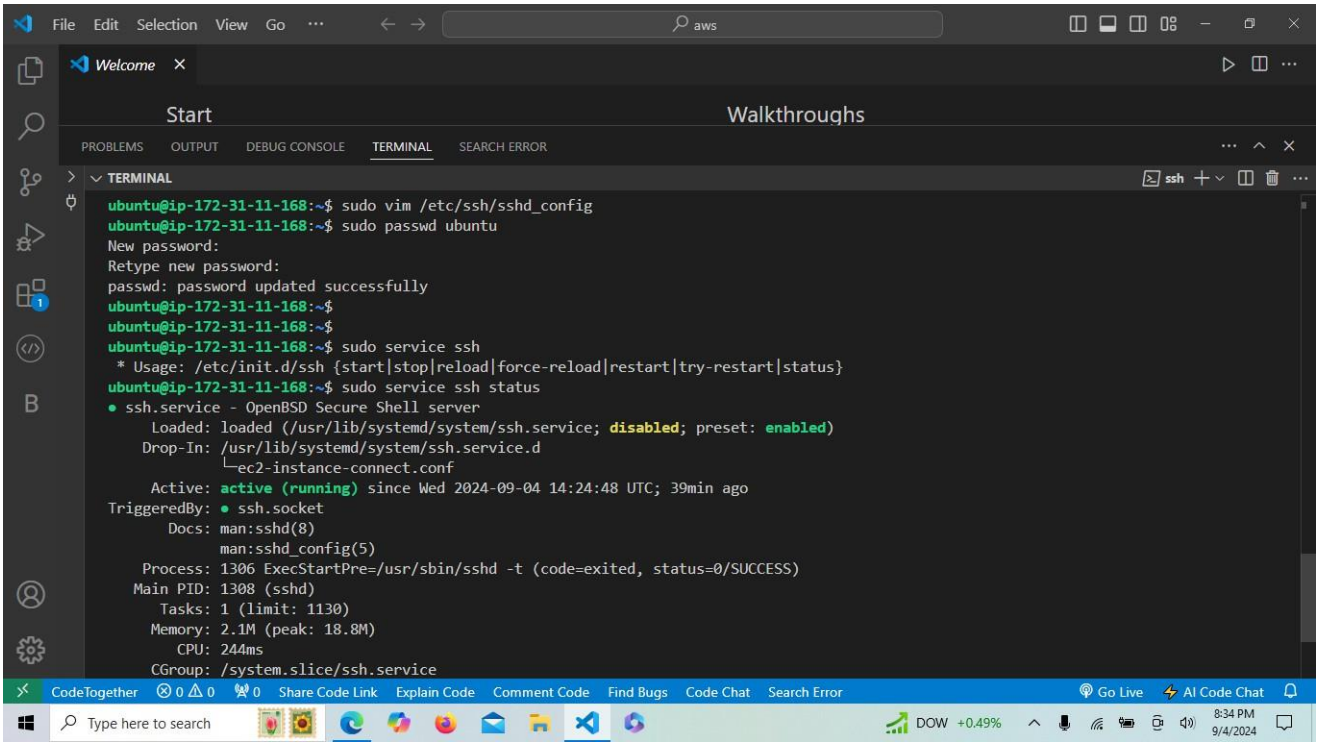
Procedure:

1. create two EC2 instance of ubuntu ssh client and ssh server
2. Create the password for the instance of ssh server by $sudo passwd ubuntu
3. Now check whether the ssh server is running by the command $sudo servicessh status
4. configure the sshd_config file by the following command $sudo vim /etc/ssh/sshd_config and include the following changes PasswordAuthentication yes , KbdInteractiveAuthenticationno ,KerberosGetAFSToken no
5. Now check the status of the ssh server by the command $sudo service sshstatus
6. Now create a text file by the command $touch text.txt
7. Now log in to the ssh_client and create a ssh_keygen by the command $ssh_keygen
8. Now copy the ssh_keygen form the ssh_client $ssh-copy-id ubuntu@privateip
9. Now restart the client machine
10. Then connect to the ssh_server by ssh_client
11. then type ls you will be prompted with the screen with your text file which you have created

Result:


Instances | EC2 | ap-south-1
Connect to instance | EC2 | ap-so
Connect to instance | EC2 | ap-so
https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:sort=desc:instanceTypeFilter
Import favorites
Bing
MSN
LAN IP Address Saf...
YouTube
aws
Services
Search
[Alt+S]
Mumbai
Biraj Magar
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Elastic Block Store
Instances (2) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availabili
Server
i-06db421159de70c3d
Running
t2.micro
2/2 checks passec
View alarms
ap-south-
Client
i-065fc4f8d228f0344
Running
t2.micro
Initializing
View alarms
ap-south-
Select an instance
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
83°F Partly cloudy
7:03 PM
9/4/2024


File
Edit
Selection
View
Go
aws
Welcome
Start
Walkthroughs
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
SEARCH ERROR
TERMINAL
ssh
HostbasedAuthentication
#IgnoreUserKnownHosts no
Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes
To disable tunneled clear text passwords, change to no here!
PasswordAuthentication yes
#PermitEmptyPasswords no
Change to yes to enable challenge-response passwords (beware issues with
some PAM modules and threads)
#KbdInteractiveAuthentication no
Kerberos options
#KerberosAuthentication no
#KerberosOrLocalPasswd yes
#KerberosTicketCleanup yes
CodeTogether
Share Code Link
Explain Code
Comment Code
Find Bugs
Code Chat
Search Error
Go Live
AI Code Chat
Type here to search
83°F Partly cloudy
8:28 PM
9/4/2024


File Edit Selection View Go
aws
Welcome
Start
Walkthroughs
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SEARCH ERROR
TERMINAL
ubuntu@ip-172-31-11-168:~$ sudo vim /etc/ssh/sshd_config
ubuntu@ip-172-31-11-168:~$ sudo passwd ubuntu
New password:
Retype new password:
passwd: password updated successfully
ubuntu@ip-172-31-11-168:~$
ubuntu@ip-172-31-11-168:~$
ubuntu@ip-172-31-11-168:~$ sudo service ssh
* Usage: /etc/init.d/ssh {start|stop|reload|force-reload|restart|try-restart|status}
ubuntu@ip-172-31-11-168:~$ sudo service ssh status
● ssh.service - OpenBSD Secure Shell server
Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset: enabled)
Drop-In: /usr/lib/systemd/system/ssh.service.d
└─ec2-instance-connect.conf
Active: active (running) since Wed 2024-09-04 14:24:48 UTC; 39min ago
TriggeredBy: ● ssh.socket
Docs: man:sshd(8)
man:sshd_config(5)
Process: 1306 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
Main PID: 1308 (sshd)
Tasks: 1 (limit: 1130)
Memory: 2.1M (peak: 18.8M)
CPU: 244ms
CGroup: /system.slice/ssh.service
CodeTogether
Share Code Link
Explain Code
Comment Code
Find Bugs
Code Chat
Search Error
Go Live
AI Code Chat
Type here to search
DOW +0.49%
8:34 PM
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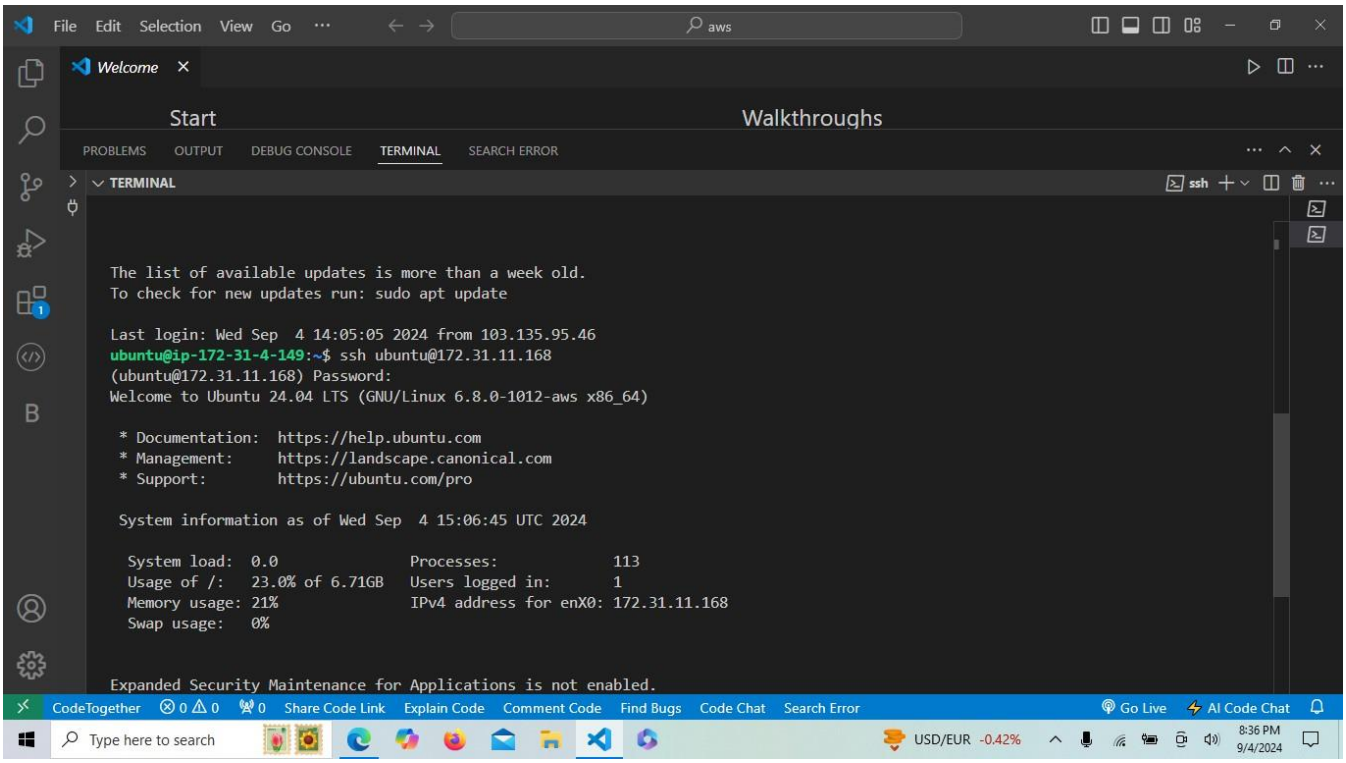
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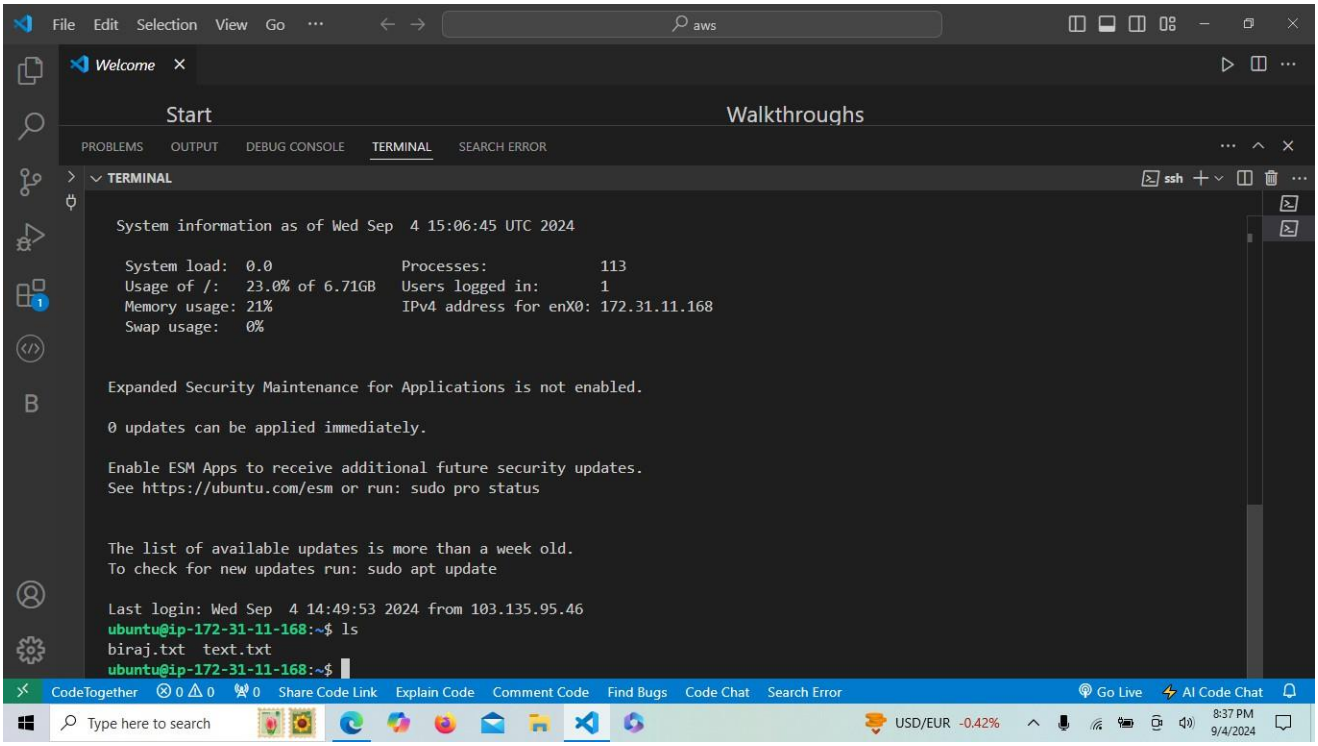
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SEARCH ERROR
TERMINAL
ssh
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Wed Sep 4 14:05:05 2024 from 103.135.95.46
ubuntu@ip-172-31-4-149:~$ ssh ubuntu@172.31.11.168
(ubuntu@172.31.11.168) Password:
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1012-aws x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
System information as of Wed Sep 4 15:06:45 UTC 2024
System load: 0.0 Processes: 113
Usage of /: 23.0% of 6.71GB Users logged in: 1
Memory usage: 21% IPv4 address for enX0: 172.31.11.168
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
CodeTogether 0 0 0 Share Code Link Explain Code Comment Code Find Bugs Code Chat Search Error
Go Live AI Code Chat
Type here to search
USD/EUR -0.42%
8:36 PM
9/4/2024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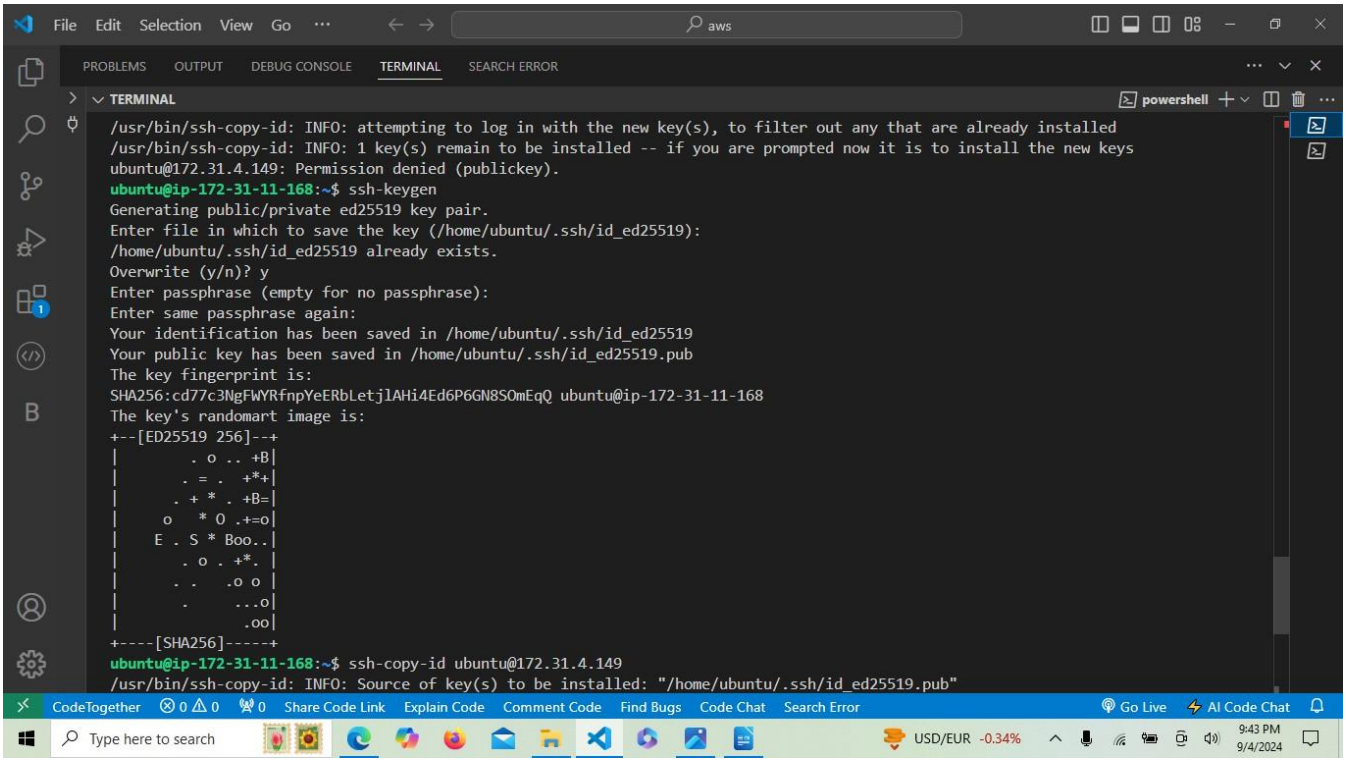
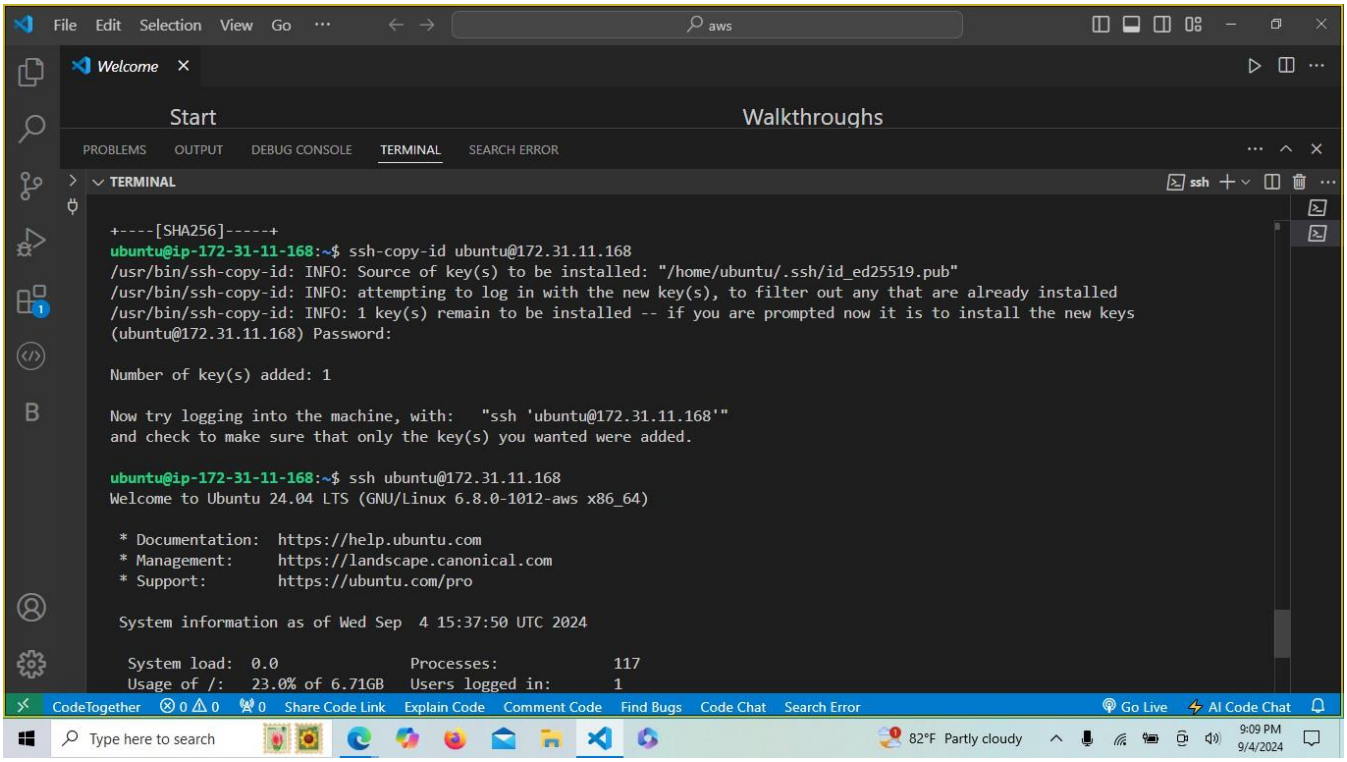
System information as of Wed Sep 4 15:06:45 UTC 2024
System load: 0.0 Processes: 113
Usage of /: 23.0% of 6.71GB Users logged in: 1
Memory usage: 21% IPv4 address for enX0: 172.31.11.168
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
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
Last login: Wed Sep 4 14:49:53 2024 from 103.135.95.46
ubuntu@ip-172-31-11-168:~$ ls
biraj.txt text.txt
ubuntu@ip-172-31-11-168:~$
CodeTogether 0 0 0 Share Code Link Explain Code Comment Code Find Bugs Code Chat Search Error
Go Live AI Code Chat
Type here to search
USD/EUR -0.42%
8:37 PM
9/4/2024





All the commands have been executed and the output has been obtained successful