SSH

Experiment: 5. Ajay Aji-22UBCA7312

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 service ssh status
4. configure the sshd_config file by the following command $sudo vim /etc/ssh/sshd_config and include the following changes

PasswordAuthentication yes , KbdInteractiveAuthentication

no ,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

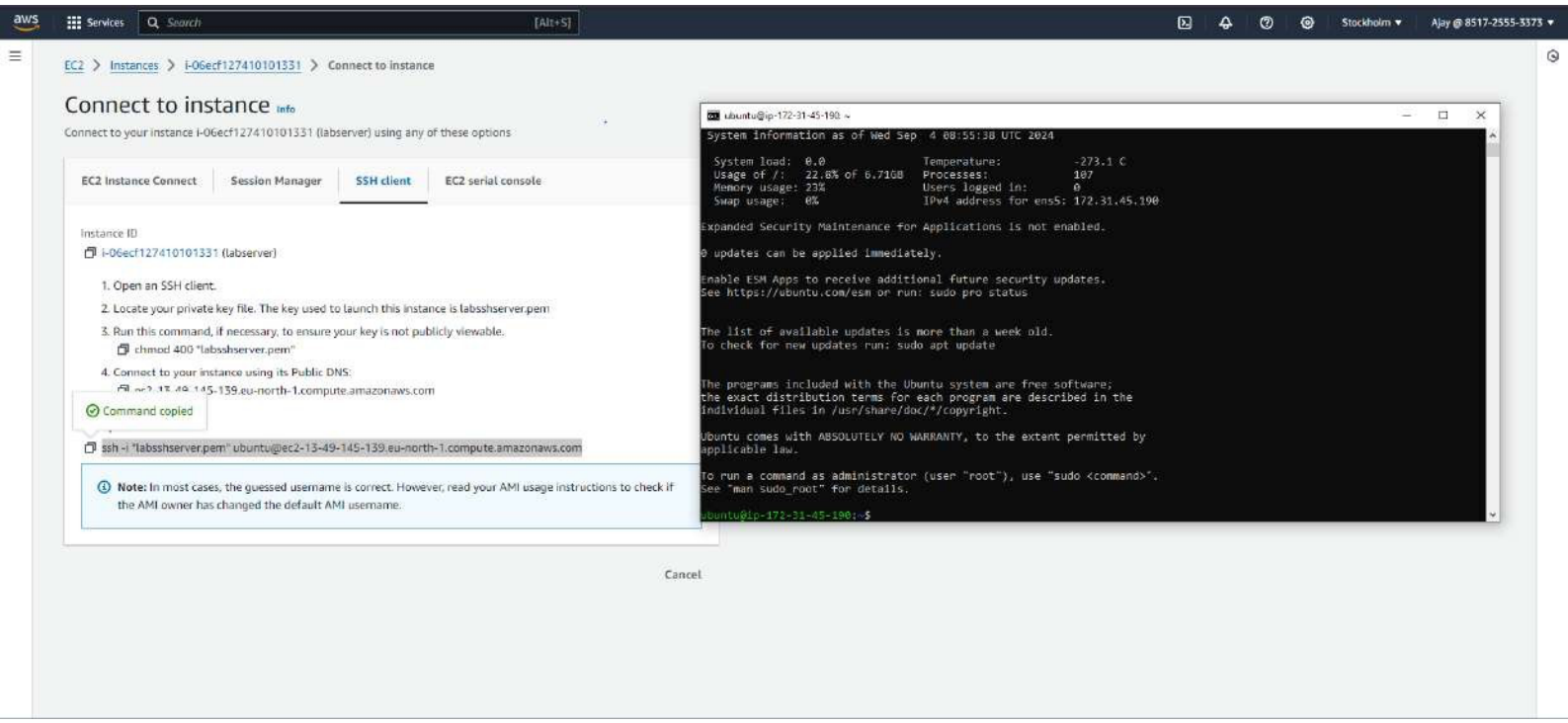
8. Now copy the ssh_keygen form the ssh_client $ssh-copy-idubuntu@privateip

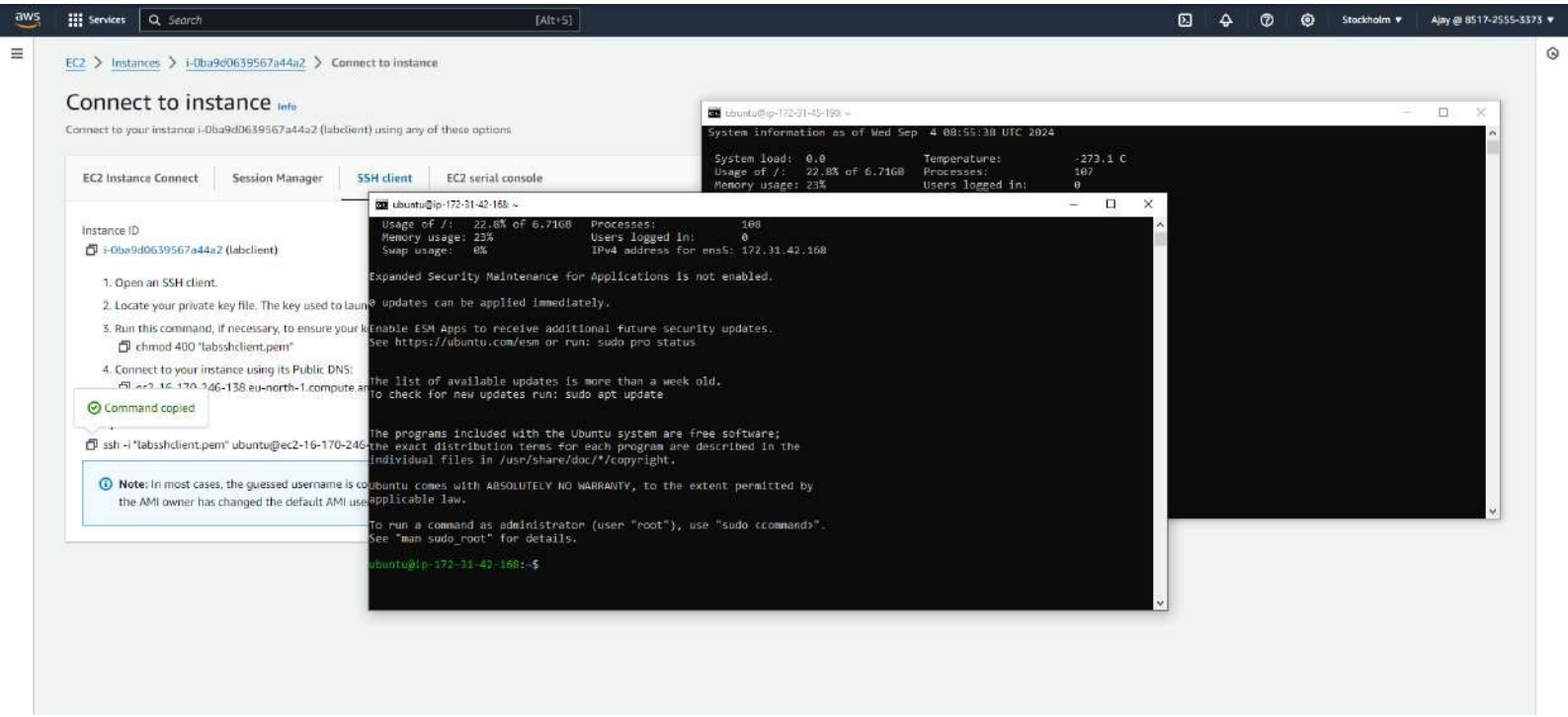
9. Now restart the client machine

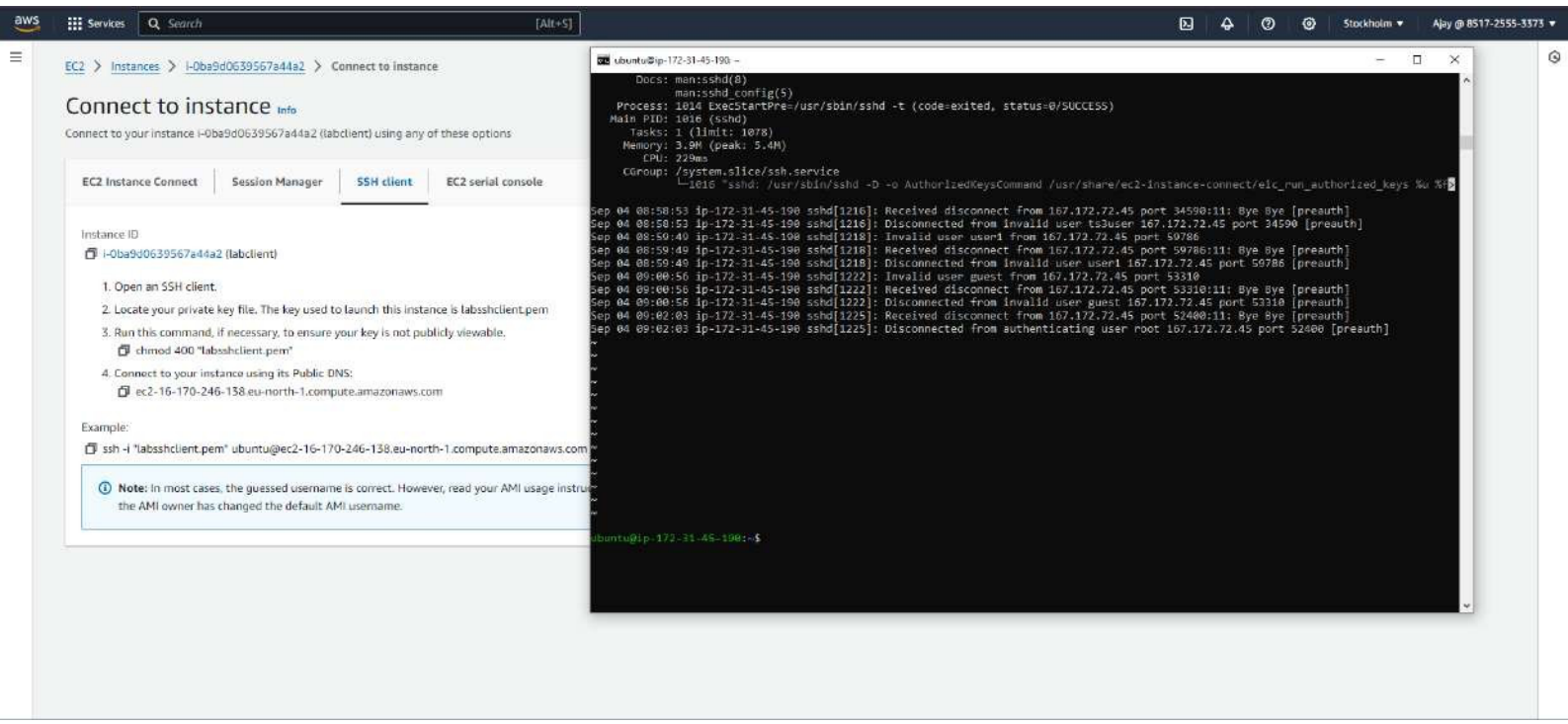
10. Then connect to the ssh_server by ssh_client

11. then type ls you will be prompted with the screen with your text file which you havecreated

Result:




Services
Search
[Alt+S]
Stockholm
EC2 > Instances > i-0ba9d0639567a44a2 > Connect to instance
Connect to instance Info
Connect to your instance i-0ba9d0639567a44a2 (labclient) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0ba9d0639567a44a2 (labclient)
1. Open an SSH client.
2. Locate your private key file. The key used to laun
3. Run this command, if necessary, to ensure your k
chmod 400 "labsshclient.pem"
4. Connect to your instance using its Public DNS:
Command copied
ssh -i "labsshclient.pem" ubuntu@ec2-16-170-246-
Note: In most cases, the guessed username is co
the AMI owner has changed the default AMI use
ubuntu@ip-172-31-45-199: ~
System information as of Wed Sep 4 08:55:38 UTC 2024
System load: 0.0
Usage of /: 22.8% of 6.71GB
Memory usage: 23%
Temperature: -273.1 C
Processes: 107
Users logged in: 0
ubuntu@ip-172-31-42-168: ~
Usage of /: 22.8% of 6.71GB
Memory usage: 23%
Swap usage: 0%
Processes: 108
Users logged in: 0
IPv4 address for ens5: 172.31.42.168
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-172-31-42-168:~$


Services
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Stockholm
Ajay @ 8517-2555-3373
EC2 > Instances > i-0ba9d0639567a44a2 > Connect to instance
Connect to instance Info
Connect to your instance i-0ba9d0639567a44a2 (labclient) using any of these options
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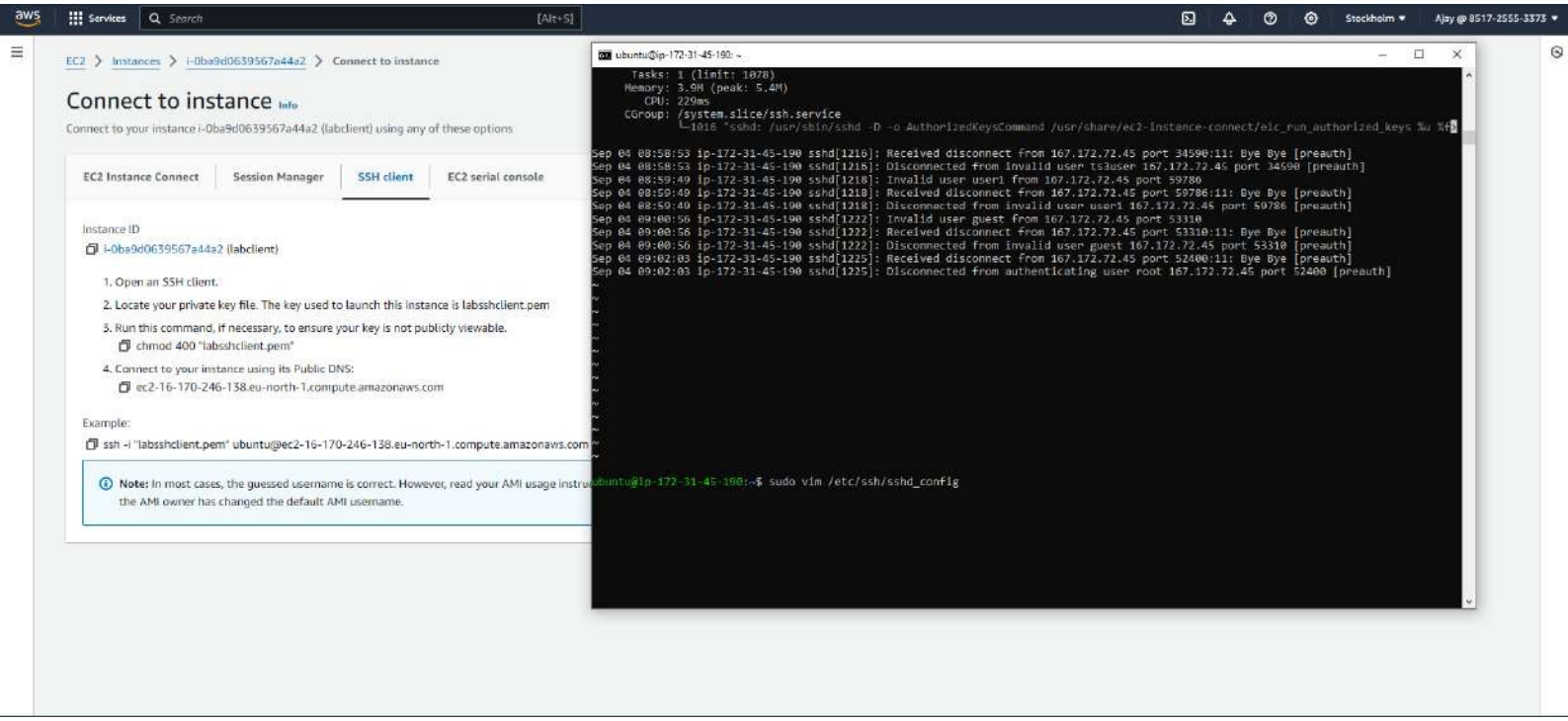
Session Manager
SSH client
EC2 serial console
Instance ID
i-0ba9d0639567a44a2 (labclient)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is labsshclient.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 "labsshclient.pem"
4. Connect to your instance using its Public DNS:
ec2-16-170-246-138.eu-north-1.compute.amazonaws.com
Example:
ssh -i "labsshclient.pem" ubuntu@ec2-16-170-246-138.eu-north-1.compute.amazonaws.com
Note: In most cases, the guessed username is correct. However, read your AMI usage instru
the AMI owner has changed the default AMI username.
ubuntu@ip-172-31-45-190: ~
Docs: man:sshd(8)
man:sshd_config(5)
Process: 1014 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
Main PID: 1016 (sshd)
Tasks: 1 (limit: 1078)
Memory: 3.9M (peak: 5.4M)
CPU: 229ms
CGroup: /system.slice/ssh.service
└─1016 "sshd: /usr/sbin/sshd -D -o AuthorizedKeysCommand /usr/share/ec2-instance-connect/eic_run_authorized_keys %u %f"
Sep 04 08:58:53 ip-172-31-45-190 sshd[1216]: Received disconnect from 167.172.72.45 port 34590:11: Bye Bye [preauth]
Sep 04 08:58:53 ip-172-31-45-190 sshd[1216]: Disconnected from invalid user ts3user 167.172.72.45 port 34590 [preauth]
Sep 04 08:59:40 ip-172-31-45-190 sshd[1218]: Invalid user user1 from 167.172.72.45 port 59786
Sep 04 08:59:49 ip-172-31-45-190 sshd[1218]: Received disconnect from 167.172.72.45 port 59786:11: Bye Bye [preauth]
Sep 04 08:59:49 ip-172-31-45-190 sshd[1218]: Disconnected from invalid user user1 167.172.72.45 port 59786 [preauth]
Sep 04 09:00:56 ip-172-31-45-190 sshd[1222]: Invalid user guest from 167.172.72.45 port 53310
Sep 04 09:00:56 ip-172-31-45-190 sshd[1222]: Received disconnect from 167.172.72.45 port 53310:11: Bye Bye [preauth]
Sep 04 09:00:56 ip-172-31-45-190 sshd[1222]: Disconnected from invalid user guest 167.172.72.45 port 53310 [preauth]
Sep 04 09:02:03 ip-172-31-45-190 sshd[1225]: Received disconnect from 167.172.72.45 port 52400:11: Bye Bye [preauth]
Sep 04 09:02:03 ip-172-31-45-190 sshd[1225]: Disconnected from authenticating user root 167.172.72.45 port 52400 [preauth]
ubuntu@ip-172-31-45-190:~$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Connect to your instance i-0ba9d0639567a44a2 (labclient) using any of these options
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1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is labsshclient.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 "labsshclient.pem"
4. Connect to your instance using its Public DNS:
ec2-16-170-246-138.eu-north-1.compute.amazonaws.com
Example:
ssh -i "labsshclient.pem" ubuntu@ec2-16-170-246-138.eu-north-1.compute.amazonaws.com
Note: In most cases, the guessed username is correct. However, read your AMI usage instru
the AMI owner has changed the default AMI username.
ubuntu@ip-172-31-45-190: ~
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Memory: 3.0M (peak: 5.4M)
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CGroup: /system.slice/ssh.service
└─1016 "sshd: /usr/sbin/sshd -D -o AuthorizedKeysCommand /usr/share/ec2-instance-connect/eic_run_authorized_keys %u %f
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Sep 04 08:59:49 ip-172-31-45-190 sshd[1218]: Received disconnect from 167.172.72.45 port 59786:11: Bye Bye [preauth]
Sep 04 08:59:49 ip-172-31-45-190 sshd[1218]: Disconnected from invalid user user1 167.172.72.45 port 59786 [preauth]
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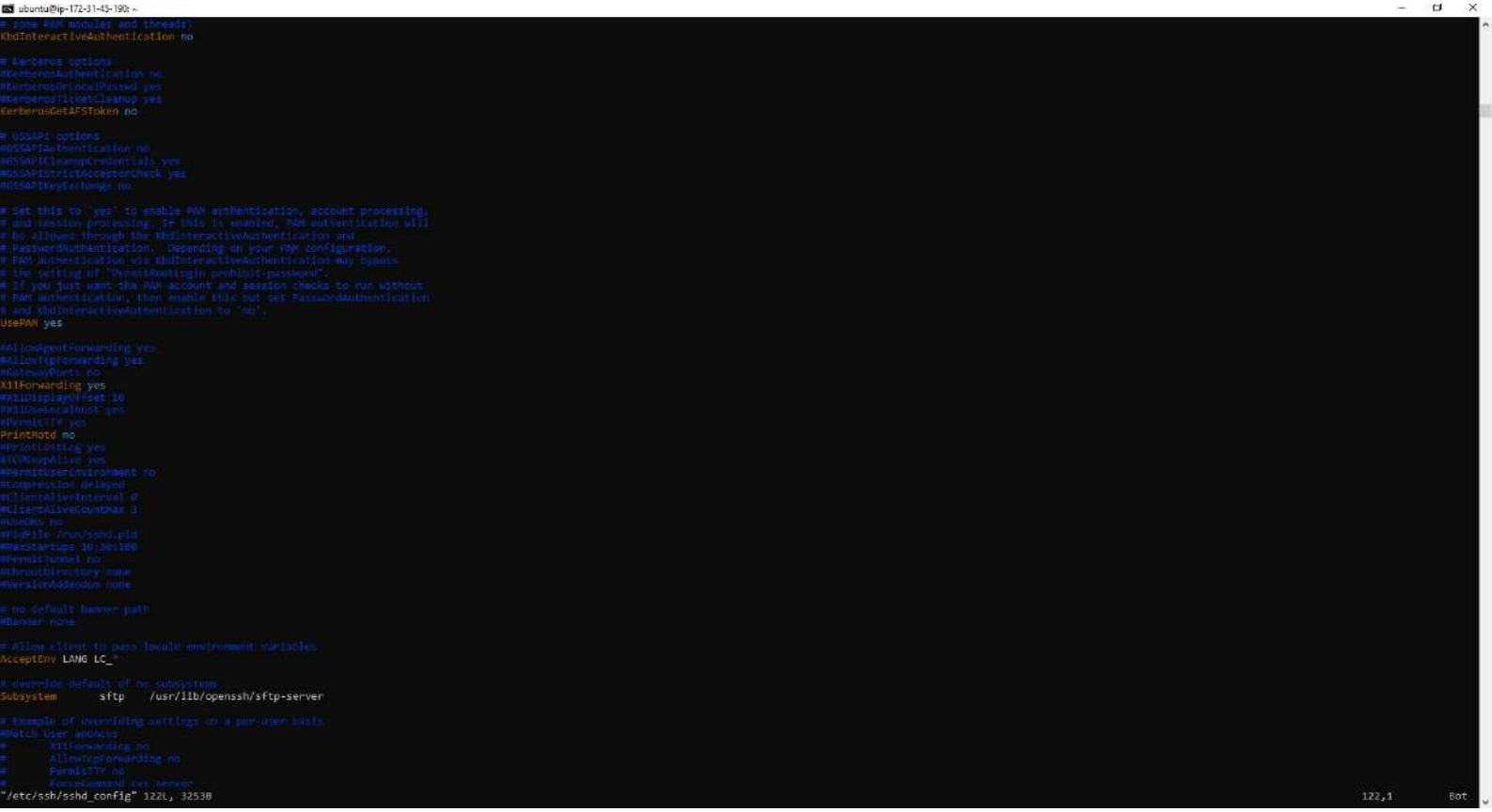
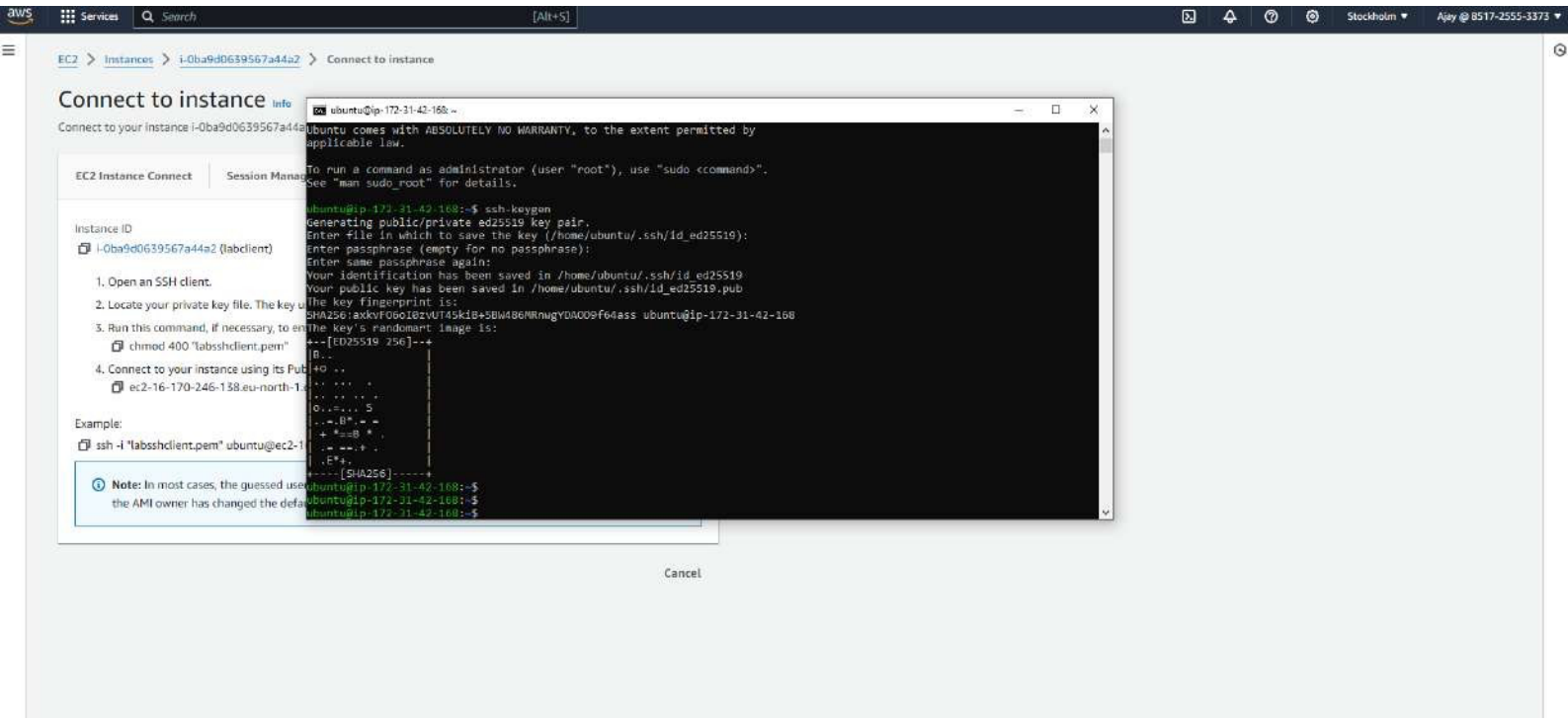
Sep 04 09:00:56 ip-172-31-45-190 sshd[1222]: Received disconnect from 167.172.72.45 port 53310:11: Bye Bye [preauth]
Sep 04 09:00:56 ip-172-31-45-190 sshd[1222]: Disconnected from invalid user guest 167.172.72.45 port 53310 [preauth]
Sep 04 09:02:03 ip-172-31-45-190 sshd[1225]: Received disconnect from 167.172.72.45 port 52400:11: Bye Bye [preauth]
Sep 04 09:02:03 ip-172-31-45-190 sshd[1225]: Disconnected from authenticating user root 167.172.72.45 port 52400 [preauth]
ubuntu@ip-172-31-45-190:~$ sudo vim /etc/ssh/sshd_config


ubuntu@ip-172-31-45-190: ~
some PAM modules and threads)
KbdInteractiveAuthentication no
Kerberos options
#KerberosAuthentication no
#KerberosOrLocalPasswd yes
#KerberosTicketCleanup yes
KerberosGetAFSToken no
GSSAPI options
#GSSAPIAuthentication no
#GSSAPICleanupCredentials yes
#GSSAPIStrictAcceptorCheck yes
#GSSAPIKeyExchange no
Set this to 'yes' to enable PAM authentication, account processing,
and session processing. If this is enabled, PAM authentication will
be allowed through the KbdInteractiveAuthentication and
PasswordAuthentication. Depending on your PAM configuration,
PAM authentication via KbdInteractiveAuthentication may bypass
the setting of "PermitRootLogin prohibit-password".
If you just want the PAM account and session checks to run without
PAM authentication, then enable this but set PasswordAuthentication
and KbdInteractiveAuthentication to 'no'.
UsePAM yes
#AllowAgentForwarding yes
#AllowTcpForwarding yes
#GatewayPorts no
X11Forwarding yes
#X11DisplayOffset 10
#X11UseLocalhost yes
#PermitTTY yes
PrintMotd no
#PrintLastLog yes
#TCPKeepAlive yes
#PermitUserEnvironment no
#Compression delayed
#ClientAliveInterval 0
#ClientAliveCountMax 3
#UseDNS no
#PidFile /run/sshd.pid
#MaxStartups 10:30:100
#PermitTunnel no
#ChrootDirectory none
#VersionAddendum none
no default banner path
#Banner none
Allow client to pass locale environment variables
AcceptEnv LANG LC_*
override default of no subsystems
Subsystem   sftp   /usr/lib/openssh/sftp-server
Example of overriding settings on a per-user basis
#Match User anoncvs
X11Forwarding no
AllowTcpForwarding no
PermitTTY no
ForceCommand cvs server
"/etc/ssh/sshd_config" 122L, 3253B
122,1
Bot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EC2 > Instances > i-0ba9d0639567a44a2 > Connect to instance
Connect to instance Info
Connect to your instance i-0ba9d0639567a44a
EC2 Instance Connect
Session Manag
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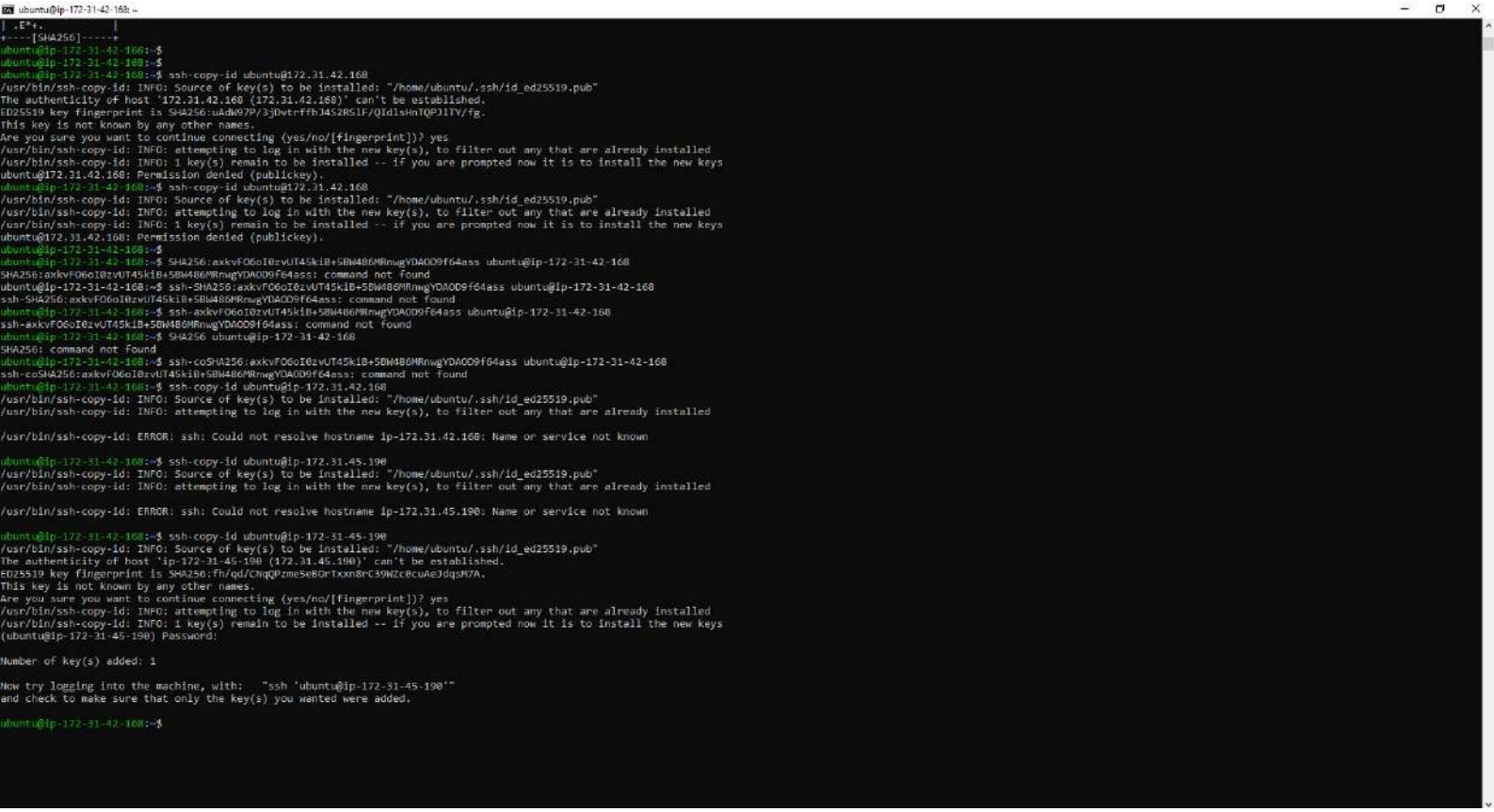
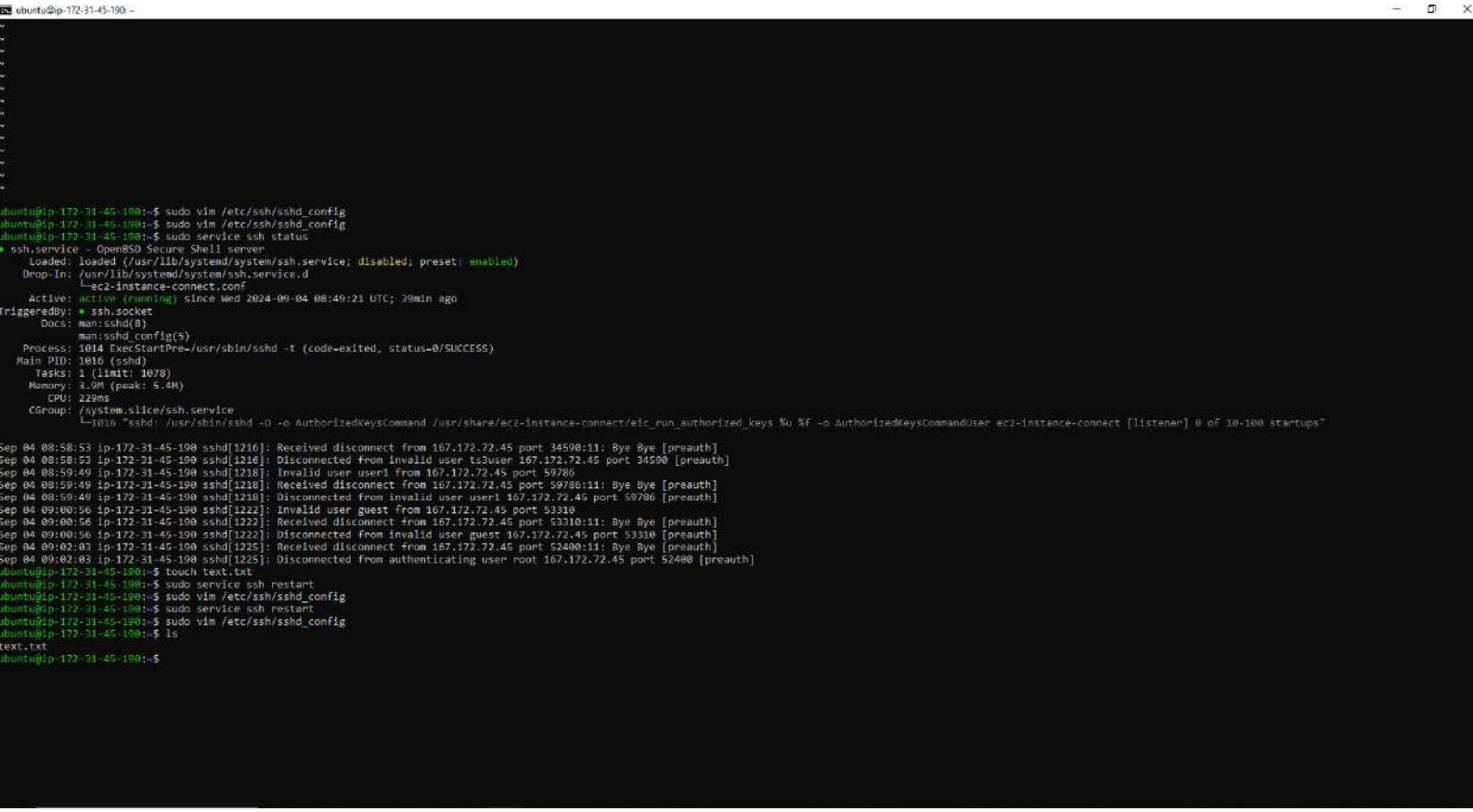
i-0ba9d0639567a44a2 (labclient)
1. Open an SSH client.
2. Locate your private key file. The key u
3. Run this command, if necessary, to en
chmod 400 "labsshclient.pem"
4. Connect to your instance using its Pub
ec2-16-170-246-138.eu-north-1.
Example:
ssh -i "labsshclient.pem" ubuntu@ec2-1
Note: In most cases, the guessed use
the AMI owner has changed the defa
Cancel
ubuntu@ip-172-31-42-168: ~
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-172-31-42-168:~$ ssh-keygen
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/ubuntu/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ubuntu/.ssh/id_ed25519
Your public key has been saved in /home/ubuntu/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:axkvFO6oI0zvUT45kiB+5BW486MRnwgYDAOO9f64ass ubuntu@ip-172-31-42-168
The key's randomart image is:
+--[ED25519 256]--+
|B. |
|+O .. |
|+. ... . |
|.. .. .. . |
|o..=... S |
|..=.B*.= = |
| + *==B * . |
| .= ==.+ . |
| .E*+. |
+----[SHA256]-----+
ubuntu@ip-172-31-42-168:~$
ubuntu@ip-172-31-42-168:~$
ubuntu@ip-172-31-42-168:~$


ubuntu@ip-172-31-42-168: ~
| .E*+. |
+----[SHA256]-----+
ubuntu@ip-172-31-42-168:~$
ubuntu@ip-172-31-42-168:~$
ubuntu@ip-172-31-42-168:~$ ssh-copy-id ubuntu@172.31.42.168
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ubuntu/.ssh/id_ed25519.pub"
The authenticity of host '172.31.42.168 (172.31.42.168)' can't be established.
ED25519 key fingerprint is SHA256:uAdW97P/3jDvtrffhJ4S2RSlF/QIdlsHnTQPJlTY/fg.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
ubuntu@172.31.42.168: Permission denied (publickey).
ubuntu@ip-172-31-42-168:~$ ssh-copy-id ubuntu@172.31.42.168
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ubuntu/.ssh/id_ed25519.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
ubuntu@172.31.42.168: Permission denied (publickey).
ubuntu@ip-172-31-42-168:~$
ubuntu@ip-172-31-42-168:~$ SHA256:axkvFO6oI0zvUT45kiB+5BW486MRnwgYDAOD9f64ass ubuntu@ip-172-31-42-168
SHA256:axkvFO6oI0zvUT45kiB+5BW486MRnwgYDAOD9f64ass: command not found
ubuntu@ip-172-31-42-168:~$ ssh-SHA256:axkvFO6oI0zvUT45kiB+5BW486MRnwgYDAOD9f64ass ubuntu@ip-172-31-42-168
ssh-SHA256:axkvFO6oI0zvUT45kiB+5BW486MRnwgYDAOD9f64ass: command not found
ubuntu@ip-172-31-42-168:~$ ssh-axkvFO6oI0zvUT45kiB+5BW486MRnwgYDAOD9f64ass ubuntu@ip-172-31-42-168
ssh-axkvFO6oI0zvUT45kiB+5BW486MRnwgYDAOD9f64ass: command not found
ubuntu@ip-172-31-42-168:~$ SHA256 ubuntu@ip-172-31-42-168
SHA256: command not found
ubuntu@ip-172-31-42-168:~$ ssh-coSHA256:axkvFO6oI0zvUT45kiB+5BW486MRnwgYDAOD9f64ass ubuntu@ip-172-31-42-168
ssh-coSHA256:axkvFO6oI0zvUT45kiB+5BW486MRnwgYDAOD9f64ass: command not found
ubuntu@ip-172-31-42-168:~$ ssh-copy-id ubuntu@ip-172.31.42.168
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ubuntu/.ssh/id_ed25519.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: ERROR: ssh: Could not resolve hostname ip-172.31.42.168: Name or service not known
ubuntu@ip-172-31-42-168:~$ ssh-copy-id ubuntu@ip-172.31.45.190
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ubuntu/.ssh/id_ed25519.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: ERROR: ssh: Could not resolve hostname ip-172.31.45.190: Name or service not known
ubuntu@ip-172-31-42-168:~$ ssh-copy-id ubuntu@ip-172-31-45-190
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ubuntu/.ssh/id_ed25519.pub"
The authenticity of host 'ip-172-31-45-190 (172.31.45.190)' can't be established.
ED25519 key fingerprint is SHA256:fh/qd/CNqQPzmeSeBOrtxxn8rC39WZc8cuAeJdqsM7A.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
(ubuntu@ip-172-31-45-190) Password:
Number of key(s) added: 1
Now try logging into the machine, with: "ssh 'ubuntu@ip-172-31-45-190'"
and check to make sure that only the key(s) you wanted were added.
ubuntu@ip-172-31-42-168:~$


ubuntu@ip-172-31-45-190: ~
ubuntu@ip-172-31-45-190:~$ sudo vim /etc/ssh/sshd_config
ubuntu@ip-172-31-45-190:~$ sudo vim /etc/ssh/sshd_config
ubuntu@ip-172-31-45-190:~$ 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 08:49:21 UTC; 39min ago
TriggeredBy: ● ssh.socket
Docs: man:sshd(8)
man:sshd_config(5)
Process: 1014 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
Main PID: 1016 (sshd)
Tasks: 1 (limit: 1078)
Memory: 3.0M (peak: 5.4M)
CPU: 229ms
CGroup: /system.slice/ssh.service
└─1016 "sshd: /usr/sbin/sshd -D -o AuthorizedKeysCommand /usr/share/ec2-instance-connect/eic_run_authorized_keys %u %f -o AuthorizedKeysCommandUser ec2-instance-connect [listener] 0 of 10-100 startups"
Sep 04 08:58:53 ip-172-31-45-190 sshd[1216]: Received disconnect from 167.172.72.45 port 34590:11: Bye Bye [preauth]
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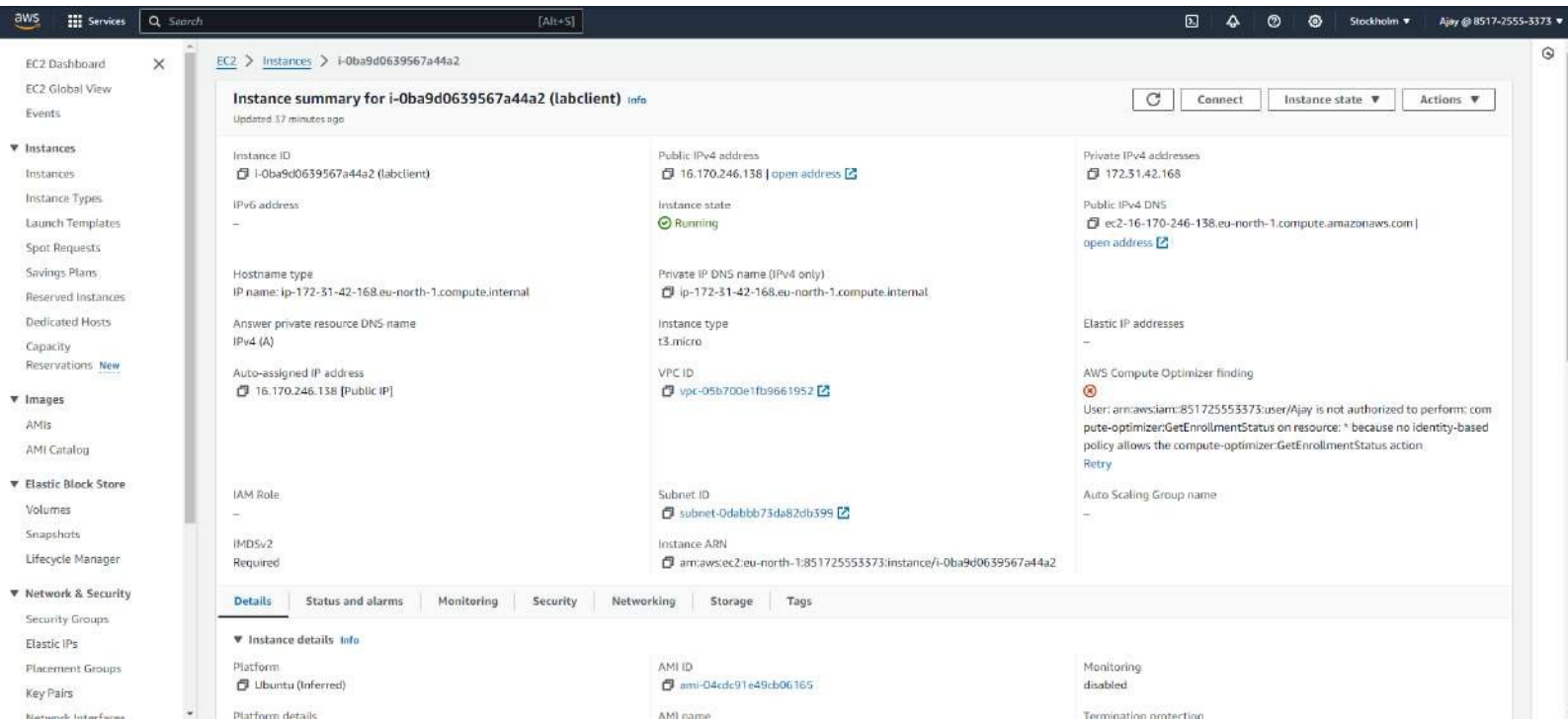
ubuntu@ip-172-31-45-190:~$ touch text.txt
ubuntu@ip-172-31-45-190:~$ sudo service ssh restart
ubuntu@ip-172-31-45-190:~$ sudo vim /etc/ssh/sshd_config
ubuntu@ip-172-31-45-190:~$ sudo service ssh restart
ubuntu@ip-172-31-45-190:~$ sudo vim /etc/ssh/sshd_config
ubuntu@ip-172-31-45-190:~$ ls
text.txt
ubuntu@ip-172-31-45-190:~$


Services
Search
[Alt+S]
Stockholm
Ajay @ 8517-2555-3373
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
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Key Pairs
EC2 > Instances > i-0ba9d0639567a44a2
Instance summary for i-0ba9d0639567a44a2 (labclient) Info
Updated 37 minutes ago
Connect
Instance state
Actions
Instance ID
i-0ba9d0639567a44a2 (labclient)
Public IPv4 address
16.170.246.138 | open address
Private IPv4 addresses
172.31.42.168
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-16-170-246-138.eu-north-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-42-168.eu-north-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-42-168.eu-north-1.compute.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t3.micro
Elastic IP addresses
–
Auto-assigned IP address
16.170.246.138 [Public IP]
VPC ID
vpc-05b700e1fb9661952
AWS Compute Optimizer finding
User: arn:aws:iam::851725553373:user/Ajay is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action
Retry
IAM Role
–
Subnet ID
subnet-0dabbb73da82db399
Auto Scaling Group name
–
IMDSv2
Required
Instance ARN
arn:aws:ec2:eu-north-1:851725553373:instance/i-0ba9d0639567a44a2
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance details Info
Platform
Ubuntu (Inferred)
AMI ID
ami-04cdc91e49cb06165
Monitoring
disabled

```
ED25519 key fingerprint is SHA256:fh/qd/CNqQPzmeSeBOrTxxn8rC39WZc0cuAeJdqsM7A.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
(ubuntu@ip-172-31-45-190) Password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'ubuntu@ip-172-31-45-190'"
and check to make sure that only the key(s) you wanted were added.

ubuntu@ip-172-31-42-168:~$ ls
ubuntu@ip-172-31-42-168:~$ touch ajay.txt
ubuntu@ip-172-31-42-168:~$ ls
ajay.txt
ubuntu@ip-172-31-42-168:~$ ssh ubuntu@ip-172-31-45-190
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 10:29:59 UTC 2024

  System load:  0.0               Temperature:           -273.1 C
  Usage of /:   23.1% of 6.71GB   Processes:             111
  Memory usage: 34%               Users logged in:       1
  Swap usage:   0%                IPv4 address for ens5: 172.31.45.190


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 08:55:40 2024 from 103.135.95.46
ubuntu@ip-172-31-45-190:~$ ls
text.txt
ubuntu@ip-172-31-45-190:~$
```