# **Experiment 5: SSH**

#### 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

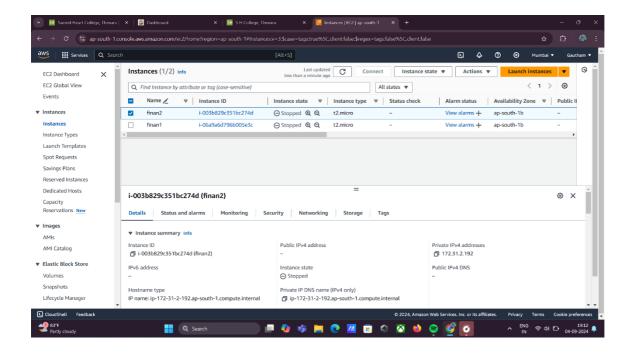
Configuration file: /etc/ssh/sshd config

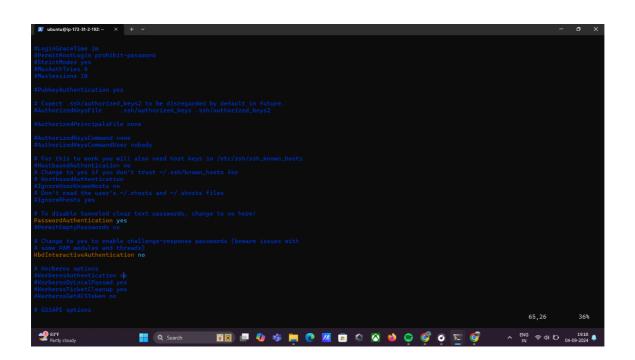
### PROCEDURE:

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
- configure the sshd\_config file by the following command
   \$sudo vim /etc/ssh/sshd\_config and include the following changes
- 5. PasswordAuthentication yes , KbdInteractiveAuthentication no,KerberosGetAFSToken no
- 6. Now check the status of the ssh server by the command \$sudo service ssh status
- 7. Now create a text file by the command \$touch text.txt
- 8. Now log in to the ssh\_client and create a ssh\_keygen by the command \$ssh\_keygen
- 9. Now copy the ssh\_keygen form the ssh\_client \$ssh-copy-id ubuntu@privateip
- 10. Now restart the client machine
- 11. Then connect to the ssh\_server by ssh\_client, then type Is you will be prompted with the screen with your text file which you have created.

#### **RESULT:**





```
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-13-126-56-170.ap-south-1.compute.amazonaw
om' (EDJS519) to the list of known hosts.
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 load: 0.1 Processes: 107
Usage of /: 23.2% of 6.71GB Users logged in: 0
Henory usage: 0% IPv4 address for enX0: 172.31.2.192
  * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com
https://ubuntu.com/pro
                                                                                                                                                                                         Expanded Security Maintenance for Applications is not enabled.
  System information as of Wed Sep 4 14:04:03 UTC 2024
                                                                                                                                                                                         0 updates can be applied immediately.

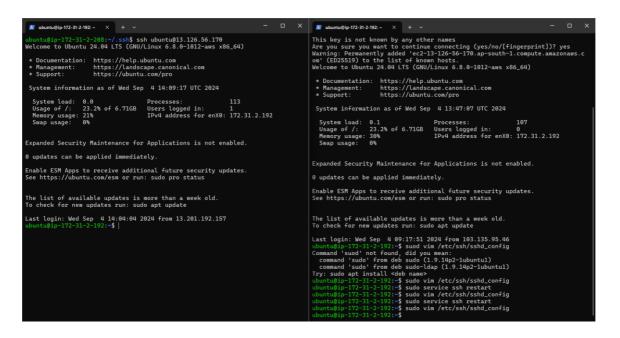
    System load:
    0.0
    Processes:
    111

    Usage of /:
    23.2% of 6.71GB
    Users logged in:
    1

    Memory usage:
    21%
    IPv4 address for enX0:
    172.31.2.192

    Swap usage:
    0%

                                                                                                                                                                                         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
  Expanded Security Maintenance for Applications is not enabled
                                                                                                                                                                                        Last login: Wed Sep # 09:17:51 2024 from 103.135.95.46
ubuntu@lp-172-31-2-192:-$ suod vim /etc/ssh/sshd_config
Command 'suod' not found, did you mean:
command 'sudo' from deb sudo-ldap (1.9.14p2-lubuntu1)
Try: sudo apt install deb sudo-ldap (1.9.14p2-lubuntu1)
Try: sudo apt install deb sudo in /etc/ssh/sshd_config
ubuntu@lp-172-31-2-192:-$ sudo vim /etc/ssh/sshd_config
ubuntu@lp-172-31-2-192:-$ sudo service ssh restart
ubuntu@lp-172-31-2-192:-$
 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 14:00:14 2024 from 152.59.223.104
```



All the commands have been executed and the output has been obtained successfully.