SSH Connection between two servers

- Create a two separate instance with the name Server_ssh connection1 and Server_ssh connection2, we can use the existing key pair for both the instance.
- 2. Connect to any one server as source, ex: Server_ssh connection1
- 3. We can login as ubuntu user or root user.
- 4. Create a ssh key using ssh-keygen -t rsa
- 5. It will save the file in default path /home/ubuntu/.ssh/id_rsa
- 6. Go inside the ssh, cd .ssh/

```
ubuntu@ip-172-31-13-133:~/.ssh$ ls
authorized_keys id_rsa id_rsa.pub known_hosts known_hosts.old
```

- 7. **Id_rsa** is a private key, **id_rsa.pub** is a public key
- 8. Cat the id_rsa.pub to copy the public key, make a note in notepad
- 9. Connect to the destination server, ex; Server_ssh connection2
- 10. Add the public key under authorized_keys
- 11. Cat the authorized_keys i.e, cat ~/.ssh/authorized_keys
- 12. Eidt the authorized_keys, add the copied public key in 2nd line, 1st line will be the keypair don't delete this keypair

```
ubuntuBip-172-31-12-178:-5 cat ~/.ssh/authorized_keys
ssh-rsa_AndAnapasatariyez-garAnapagasatahagapittipi_Comeyxompropy1+pmhly61d6w0j7dbwf5zoupBYXfkfogzpDcNwp20d4zbeZdbP53153vol0XssiUpn553xZ0Xh98xULecEs16w2tv5yMMnGw23v2kHUmkVAcG
qd5613xAvVwV06F44fF6XZ+1rQylAJ7Yv3v06HCkxbqp5eqr4ePNioNaA2Gw1M9dX30g912E+ZuhoQvp3ePY1AUaSSnNSbb/GliJhcg3xIU490U9s64bqUwAx4/2YHgaGo16CsvZygHtosAGY/V1AcGvrtnkkYad4krFDa
MQ7MnTUymn136%/zhwfgmuyHAlapfgeNCtWMbhJ/TWNZFWcis1kxVT38cG0PwXuBe5644f0Xx6gNvfPpabmwS0BfM008k+W1BhDljFFkholymXuiCSpWcD5Wzh19HZVFKrNJElWLXDae2Jn/J7pD+PuwfuYH0p0/7
RdF1SjrFiF1V11A8jfTzcixHxMWjYDgU0Z+j/KKGMD62JGaf/gnfTzJ5jp]ZfEr4Cdg9T+imMVSZwjsKKMHAOSjABPuylKgSF/czIwgoMip1g69ccFxpCGqJEgRg74DjokepcVnlVH46BJPdruodXBJO8WyvNyIDfPXZ
zspFTz9gfkstuk/MU0fmaAlgayMZ+fVPad1abH}/ypTuv4AGASWOLlqUfvdj51sfSbVrW2LJpWBAORR8tt7DpT7fgbpXTY9v9xqo3MVY1Wjkc8u/k+GkeayjHawSF0c6Qu0ApzQlpmeB/BQ/gNbmm/C8
tcVTRNmklV2gmc90f6SMjFTHwK/bH+TzLTfvdiJ9T/ctdgj1Q8= ubuntu8ip-172-31-13-133
```

- 13. Once done go to the source server and check the permission for public key it should be 600
- 14. If not set the permission for id_rsa.pub i.e, chmod 600 id_rsa.pub

```
ubuntu@ip-172-31-13-133:~/.ssh$ ls -l
total 20
-rw------ 1 ubuntu ubuntu 391 Nov 28 09:40 authorized_keys
-rw------ 1 ubuntu ubuntu 2610 Nov 28 11:32 id_rsa
-rw------ 1 ubuntu ubuntu 577 Nov 28 11:32 id_rsa.pub
-rw------ 1 ubuntu ubuntu 1120 Nov 28 11:37 known_hosts
-rw-r--r-- 1 ubuntu ubuntu 284 Nov 28 11:37 known_hosts.old
```

15. Now we can ssh the destination server using source server ubuntu@ip-172-31-13-133:~/.ssh\$ ssh ubuntu@172.31.12.178 (IP of destination server)

Its connected to the destination server.

```
ubuntu@ip-172-31-13-133:~/.ssh$ ssh ubuntu@172.31.12.178
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86 64)
 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support:
                 https://ubuntu.com/pro
 System information as of Thu Nov 28 12:06:44 UTC 2024
 System load: 0.0
                                                          106
                                  Processes:
 Usage of /: 23.2% of 6.71GB Users logged in:
Memory usage: 20% IPv4 address for enX0:
                                  IPv4 address for enx0: 172.31.12.178
 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: Thu Nov 28 12:00:35 2024 from 13.233.177.3
ubuntu@ip-172-31-12-178:~$
```

Note: We can copy the public key using command from source server as well

ssh-copy-id -I .ssh/id_rsa.pub ubuntu@ip address of destination server

Then check from step 13 to connect the destination server.