SSH Connection between two servers

1. 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

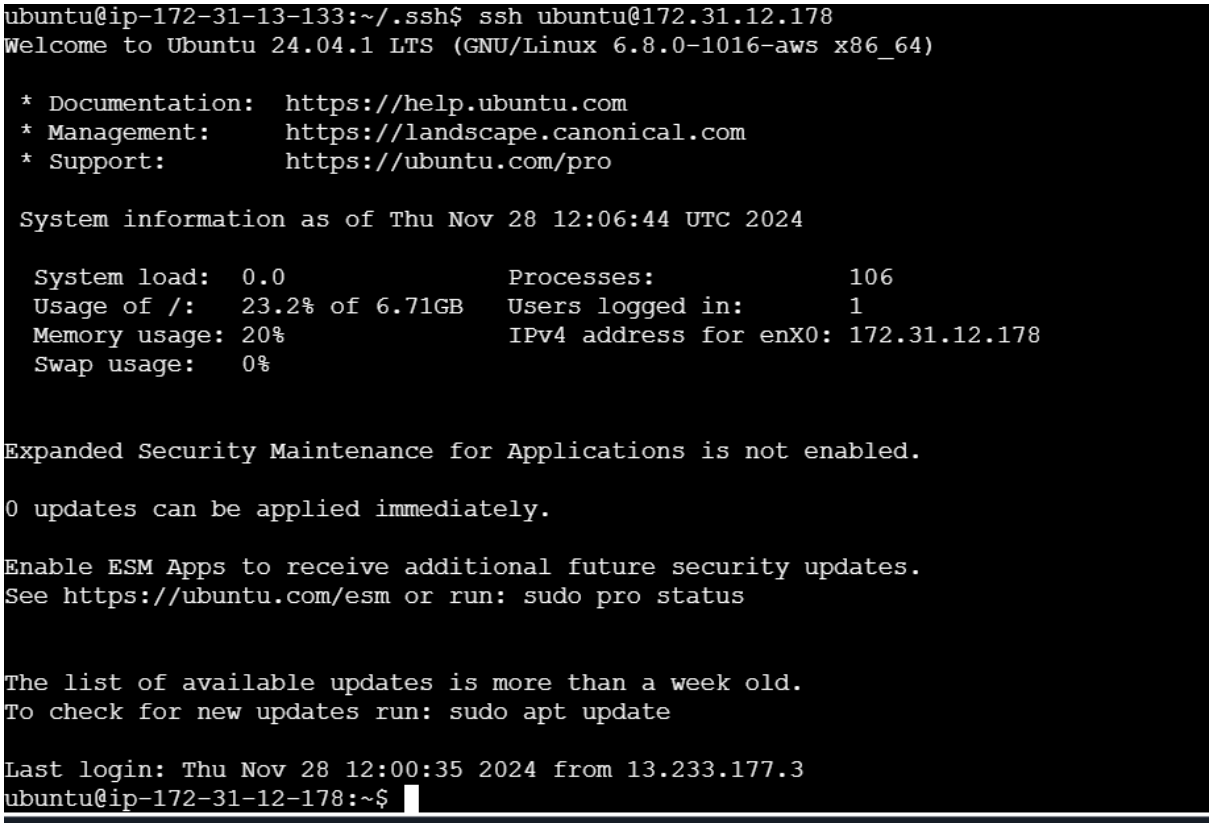
```
ubuntu@ip-172-31-12-178:~$ cat ~/.ssh/authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDLtVfjZ/CmRyxvBuPvFy7+pmhIy6Id6w0j7dbwf5zOuPBYXfkfOgzpDcNwpZ0d4ZbEZdbP53L5JvOlOXssiUPn553xZ0Xh9BxULecEs16W2tv5yWMhGW2Jv2kNUmKVAcG
qd5Gl3xAWvWVO6F44fF6XZ+1rQylAJ7Yw3vO6HCCkxbqp5eQr4ePNiONaA2GWiM9dX30g912E+ZuhoQvp3ePY1AUaSSnNSbD/GliJhcg3xIU49OU9s64bqUWAx4/zYHgaGo16CSvZygHtosAGY/VIAcGvrtnkkYad4krFDa
MQ7MnTUymn13oS/zhwPgmuyHAlap5QeNtOfWWhXijhlWMz keypair16
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQCXkhByD/YTWJZPWciRlxuT3EcG0PwXuBe5644foXx6gNvfPpabmwS0BfMOO8k+WlBhDljFRkholymXuiCSpWcD5WZhI9HZVFKrNJE1wLXDae2Jn/JTpD+PuwfuYHop0/7
PdFlSjrIFi7ulA8jfTZcixHxNWjYDqgUoZ+j/RdKDLeb2olGaf/QnfTzJ5jpj2fEr4C4g9T+inmYUsZwjsKKMBA0SjA8FuylKgSF/czIwgoMiplg69ccFxpCGqJEgRQ74DjoXeQcVnlVH46BJPdruodXBJO8wPvhVjD/PxZ
zsFpTz9qkFsUE/MU0fmAHiqaYgM2r/PVaDfV+5/gtgccm1DaHh/ybTuv4qAc3WOLlq1wfvgi551x5BVrW2LJpwBAORR8tt7DpT7fqBOpXYTy9v9xqO3MVY1WjkC8u/K+GkeayjHaWSFOc6QUaOApzQ1pmeB/BQ/gNbmm/C8
tcVTRNmklV2gmc9Of6SMjPTHwR/bH+TzLTfvdiJ9T/ctdgjIQE= ubuntu@ip-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.



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.