Task: Deploy Linux and Windows virtual machine and access them using SSH and RDP

Solution:

 Accessing virtual Linux machine to another Linux terminal using ssh.

I have a linux virtual machine with username "neelmani" and another my local linux with username "developer".
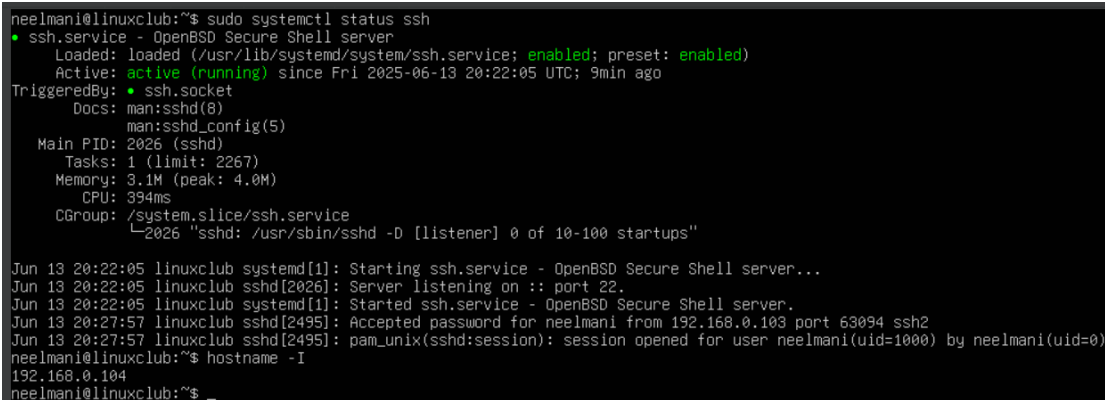
For this process, firstly i checked status of both machines, if status is inactive or ssh.services not present then we'll first install and then start and enable ssh as follow.

$ sudo apt update
$ sudo apt install openssh-server -y
$ sudo systemctl status ssh
$ sudo systemctl start ssh
$ sudo systemctl enable ssh
$ sudo systemctl status ssh

As ssh in running or active status, next task is to find ip address of remote machines

$ hostname -I

By this we get ip address

```
neelmani@linuxclub:~$ sudo systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: enabled)
     Active: active (running) since Fri 2025-06-13 20:22:05 UTC; 9min ago
TriggeredBy: ● ssh.socket
       Docs: man:sshd(8)
             man:sshd_config(5)
   Main PID: 2026 (sshd)
      Tasks: 1 (limit: 2267)
     Memory: 3.1M (peak: 4.0M)
        CPU: 394ms
     CGroup: /system.slice/ssh.service
             └─2026 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Jun 13 20:22:05 linuxclub systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
Jun 13 20:22:05 linuxclub sshd[2026]: Server listening on :: port 22.
Jun 13 20:22:05 linuxclub systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
Jun 13 20:27:57 linuxclub sshd[2495]: Accepted password for neelmani from 192.168.0.103 port 63094 ssh2
Jun 13 20:27:57 linuxclub sshd[2495]: pam_unix(sshd:session): session opened for user neelmani(uid=1000) by neelmani(uid=0)
neelmani@linuxclub:~$ hostname -I
192.168.0.104
neelmani@linuxclub:~$ _
```

The above mentioned image is describing status of remote virtual machines

Above mentioned both images shows the login status of remote machine to local machine using ssh

$ ssh username@ip_addres

SSH (Secure Shell) is a **secure protocol** used to remotely access and control another computer over a network, typically via the **command line**.

Accessing virtual window machine to another Linux terminal using ssh.
For accessing the window machine, we simply enable SSH Access in windows and by applying same process, it can be remotely accessed.

Accessing virtual window machine using Remote Desktop Protocol (RDP):

If we are using Azure or any cloud virtual machine them by simply
 go to resource
 go to deployed virtual machines
 click on connect
 click on RDP

It will download a file, by executing that file, we can remotely access virtual window machine to local machines

Same as we can access linux virtual machine by downloading ssh file and mention that file in ssh command

$ ssh ssh_file_path username@ip_address

In such a ways, we can access linux and window machine