Expt. No.	Name : Piyush Pandurang Burate Class : TYCS Roll No.: 523
	Title of Experiment : SSH Server : Password Authentication.
Date	Sub titles : Assignment/ Problem Solution, Flow chart/Algorithm, Problem Listing, Input Screen, Output Screen, Comments (If any)

Aim :- SSH Server : Password Authentication

Configure SSH server to manage a server from the remote computer,

SSH Client : (Ubuntu and Window)

Theory :-

- SSH Server -
  - Open SSH is a freely available version of the secure shell (SSH) protocol family of tools for remotely controlling or transfering files between computers
  - Traditional tools used to accomplish these functions, such as ꓕ TelNet or RCP are insecure and transmit the users password in cleartext when used.
  - Open SSH provides a server demon and client tools to facilate secure, encrypted remote control and file transfer operations, effectively replacing the legacy tools.

Remark	
Signature	

- **How SSH works?**
  - To establish an SSH connection, we need 2 primary components: a client and a host, which can be a server, domain name, IP address and more.
  - We require a SSH client to connect with another computer or server.
  - The client uses the specified host information to establish the connection, if the provided credential verified, it will establish an encrypted connections.
  - The server (Host) contains an SSH process that is ready to take a request for the client connection through a TCP/IP port.
  - Once the client initiates a connection, the host responds with necessary information and exchange the credentials.

SSH Server : Password Authentication

```
root@ubuntu-VirtualBox:~# apt-get -y install openssh-client
        Reading package lists... Done
        Building dependency tree
        Reading state information... Done
        ...
        Preparing to unpack .../openssh-client_1%3a7.2p2-4ubuntu2.10_i386.deb ...
        Unpacking openssh-client (1:7.2p2-4ubuntu2.10) ...
        Processing triggers for man-db (2.7.5-1) ...
        Setting up openssh-client (1:7.2p2-4ubuntu2.10) ...


root@ubuntu-VirtualBox:~# sudo nano /etc/ssh/sshd_config
        # line 28: change to no
        PermitRootLogin no


root@ubuntu-VirtualBox:~# systemctl restart ssh
```
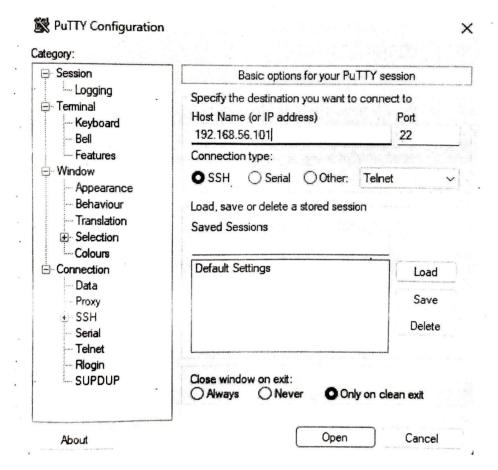


```
login as: root
root@192.168.56.101's password:
Welcome to Ubuntu 16.04.4 LTS (GNU/Linux 4.13.0-36-generic i686)
```

root@ubuntu-VirtualBox: ~   — ☐ ✕

```
login as: root
root@192.168.56.101's password:
Welcome to Ubuntu 16.04.4 LTS (GNU/Linux 4.13.0-36-generic i686)

 * Documentation:  https://help.ubuntu.com
 * Management:      https://landscape.canonical.com
 * Support:         https://ubuntu.com/advantage

573 packages can be updated.
457 updates are security updates.

New release '18.04.6 LTS' available.
Run 'do-release-upgrade' to upgrade to it.


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.

/dev/pts/17
No command '-mesg' found, did you mean:
```