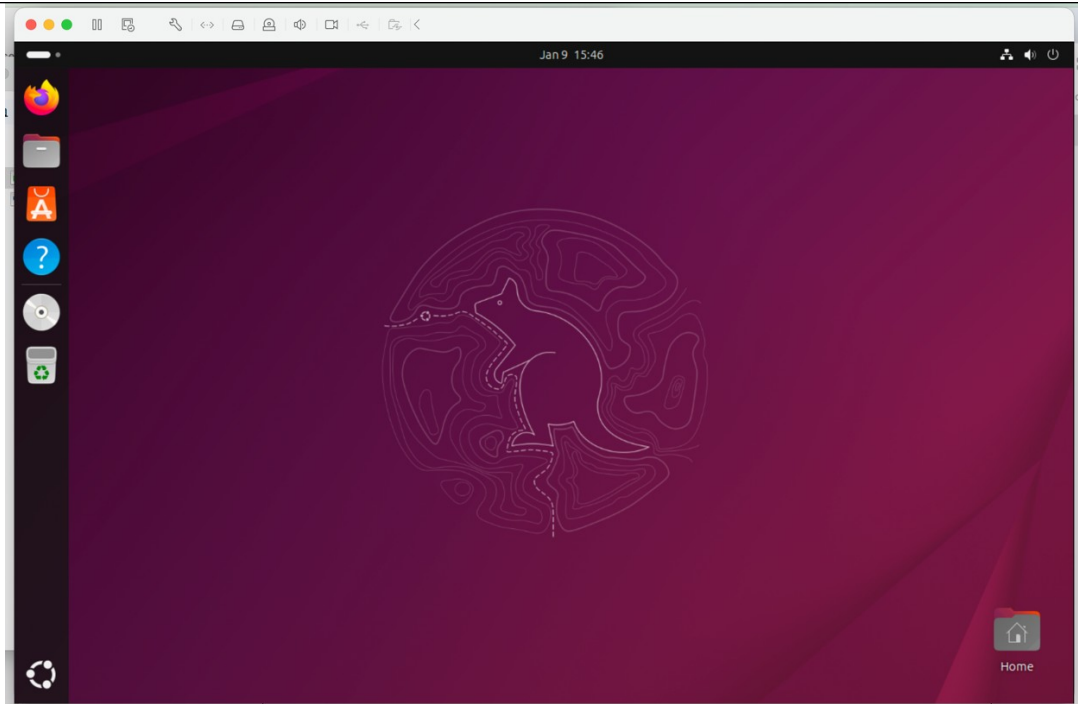
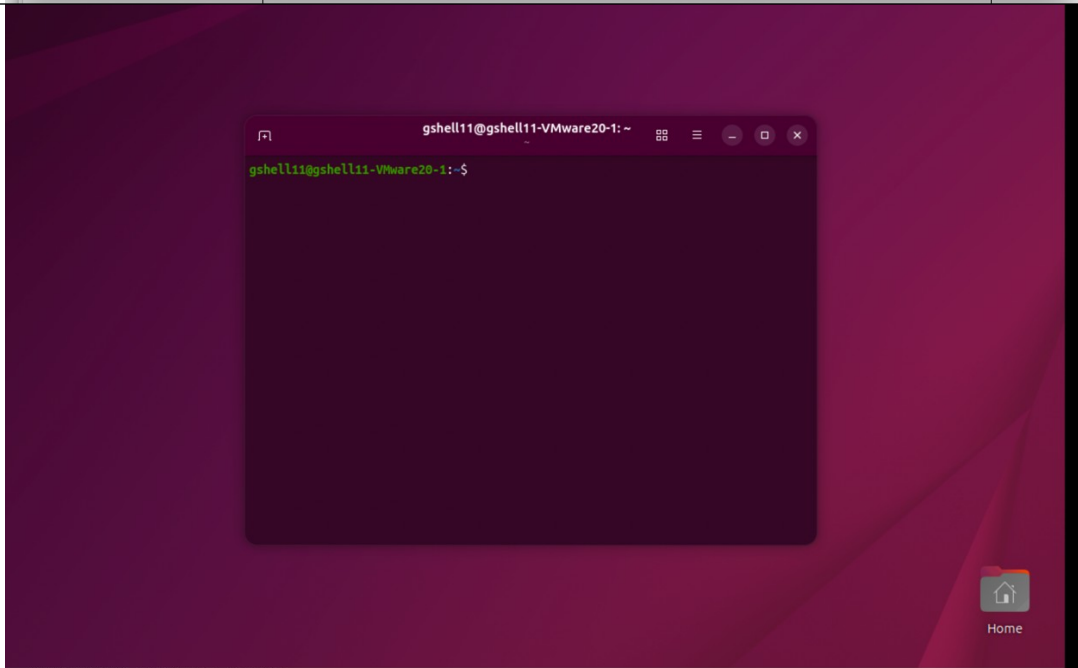


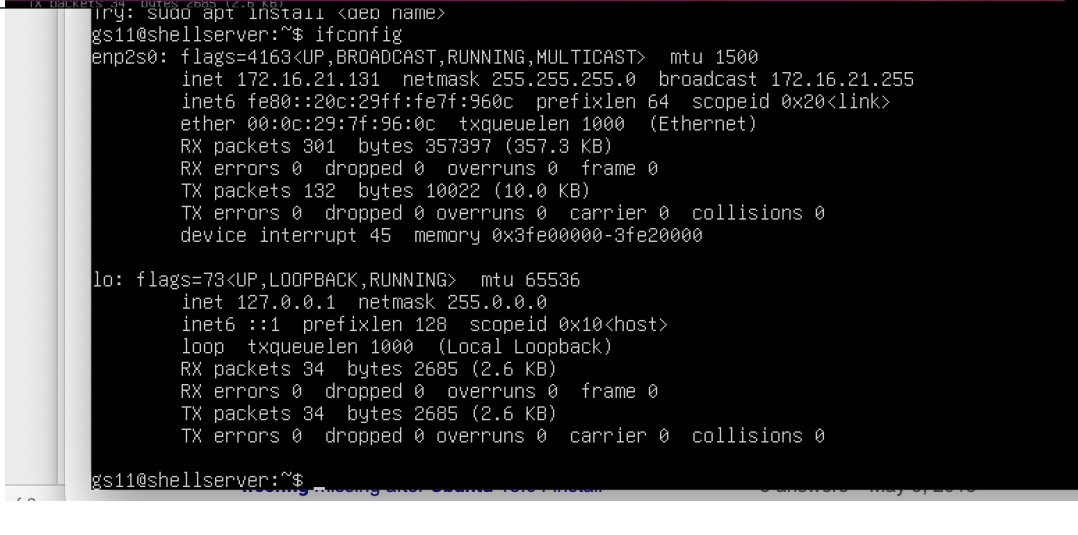
- Log into your Ubuntu Desktop, using the directions from part 1



- Go to your Desktop's app library by clicking on the ubuntu logo in the lower left corner of the desktop
- Click on the "Terminal" Application, to open it
- This will be used to form an SSH connection



- Now, log in the Ubuntu Server that was opened in Part 1
- Type the command "ifconfig", note that "ipconfig" is windows specific, hence the use of "if" config to see the server's IP address
- It will appear two lines under your command, for example, my server that is shown has an IP of 172.16.21.131



- Now, back to the terminal of the desktop
- Type in the command “ssh serverusername@serverIP”
- Fill in the username and IP with your specific machine’s information
- For example, my command was “ssh gs11@172.16.21.131”

```

gs11@gshell11-VMware20-1:~$ ssh gs11@172.16.21.131
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.8.0-90-generic aarch64)

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

System information as of Fri Jan  9 11:26:20 PM UTC 2026

System load:  0.0           Temperature:   29.9 C
Usage of /:   26.5% of 9.75GB Processes:    174
Memory usage: 5%           Users logged in: 1
Swap usage:  0%           IPv4 address for enp2s0: 172.16.21.131

Expanded Security Maintenance for Applications is not enabled.

55 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Fri Jan  9 23:22:11 2026 from 172.16.21.129
gs11@shellserver:~$

```

- The next task is to generate an ssh key, and share between both machines
- The purpose of this is to cancel the requirement of entering a password each time the connection is made
- Enter the following command to create the key “ssh-keygen -t rsa -b 4096”
- Click “Enter”

```

gs11@shellserver:~$ exit
logout
Connection to 172.16.21.131 closed.
gs11@gshell11-VMware20-1:~$ ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/home/gshell11/.ssh/id_rsa):
Enter passphrase for "/home/gshell11/.ssh/id_rsa" (empty for no passphrase
):
Enter same passphrase again:
Your identification has been saved in /home/gshell11/.ssh/id_rsa
Your public key has been saved in /home/gshell11/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:YTDkoj62N3CNREQNMxUzZ6nKjEHaPqmLHCsdqMoTB7k gshell11@gshell11-VMwar
e20-1
The key's randomart image is:
+---[RSA 4096]-----+
|  o*=0.o.          |
|  .+.B.           |
|  +... ..0        |
|  .oo.....       |
|  |oB + S         |
|  |.EO.*          |
|  |o=0=          |
|  |=.oo          |
|  |+..           |
|  +..o.          |
+---[SHA256]-----+
gs11@gshell11-VMware20-1:~$

```

- Finally, our newly generated SSH Key must be copied to the Ubuntu Server
- Use the command “ssh-copy-id serverusername@serverIP”
- Click “enter”
- The SSH Connection has been formed and the Key has been created!

```

+---[SHA256]-----+
gs11@gshell11-VMware20-1:~$ ssh-copy-id gs11@172.16.21.131
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: ssh-add -L
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to f
ilter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are
prompted now it is to install the new keys
gs11@172.16.21.131's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'gs11@172.16.21.131'"
and check to make sure that only the key(s) you wanted were added.

gs11@gshell11-VMware20-1:~$

```