## Setting ssh for both server and client

```
server1 [Running] - Oracle VM VirtualBox
 File Machine View Input Devices Help
mine25x@mine:~$ sudo apt install openssh-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:9.6p1-3ubuntu13.5).
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
mine25x@mine:~$ sudo systemctl status ssh

• ssh.service - OpenBSD Secure Shell server
Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset: enabled)
Active: inactive (dead)
TriggeredBy: • ssh.socket
       Docs: man:sshd(8)
man:sshd_config(5)
mine25x@mine:~$ sudo ufw allow ssh
Rules updated
Rules updated (v6)
 uriel@uriel-Legion-5-15ACH6H:~$ ssh mine25x@192.168.1.7
 mine25x@192.168.1.7's password:
 Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-48-generic x86_64)
                           https://help.ubuntu.com
 let:Doeumentation:
  * Management:
                           https://landscape.canonical.com
                           https://ubuntu.com/pro
  * Support:
  System information as of Fri Nov 15 01:10:19 PM UTC 2024
    System load:
                       0.0
                                                 Processes:
                                                                                    111
 Led Usage of erlabled) 58.1% of 4.10GB
                                                 Users logged in:
                                                 IPv4 address for enp0s3: 192.168.1.7
   Memory usage: 10%
    Swap usage:
 Expanded dsecurity Mathtenance for Applications is not enabled.
 O updates can be applied immediately.
 Ed@bleaÆSMPAppsp tefatecejive ædditional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
                                          uriel@uriel-Legion-5-15ACH6H: ~
uriel@uriel-Legion-5-15ACH6H:-$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/uriel/.ssh/id_rsa): /home/uriel/.ssh/id_rsa
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/uriel/.ssh/id_rsa
Your public key has been saved in /home/uriel/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:TFMuiutDcU4QnavdqOAxG7NK7pDH706TrpUjhBljutU uriel@uriel-Legion-5-15ACH6H
+---[RSA 3072]----+
 +0+X0.
 +.+Boo
 ---[SHA256]---
 uriel@uriel-Legion-5-15ACH6H:~$
```

## creating a key and sending it to server

```
mine25x@mine: ~
uriel@uriel-Legion-5-15ACH6H:~$ ssh-copy-id mine25x@192.168.1.7
The authenticity of host '192.168.1.7 (192.168.1.7)' can't be established.
ED25519 key fingerprint is SHA256:RKno9YkdishYZu3WxygK9JU9L2YCMHh6VVzRtV5susg.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter 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 i/
nstall the new keys
mine25x@192.168.1.7's password:
Number of key(s) added: 1
Now try logging into the machine, with: "ssh 'mine25x@192.168.1.7'"
and check to make sure that only the key(s) you wanted were added.
uriel@uriel-Legion-5-15ACH6H:-$ ssh mine25x@192.168.1.7
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-48-generic x86_64)
 * Documentation: https://help.ubuntu.com
  Management:
                   https://landscape.canonical.com
 * Support:
                   https://ubuntu.com/pro
 System information as of Fri Nov 15 01:24:33 PM UTC 2024
  System load: 0.32
                                  Processes:
                                                          115
 Usage of /: 58.2% of 4.10GB Users logged in:
 Memory usage: 8%
                                  IPv4 address for enp0s3: 192.168.1.7
 Swap usage:
Expanded Security Maintenance for Applications is not enabled.
O updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
Last login: Fri Nov 15 13:10:19 2024 from 192.168.1.11
mine25x@mine:~$
```

# installing lvm2

```
mine25x@mine:~

mine25x@mine:~

sudo apt install lvm2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
lvm2 is already the newest version (2.03.16-3ubuntu3.1).

upgraded, 0 newly installed, 0 to remove and 15 not upgraded.

mine25x@mine:~

mine25x@mine:~

mine25x@mine:~

mine25x@mine:~

mine25x@mine:~
```

## creating a new partition

```
mine25x@mine: ~
                              change display/entry units extra functionality (experts only)
             I load disk layout from sfdisk script file D
O dump disk layout to sfdisk script file
            Save & Exit

mine login: mine25x

w write table to disk andwexit

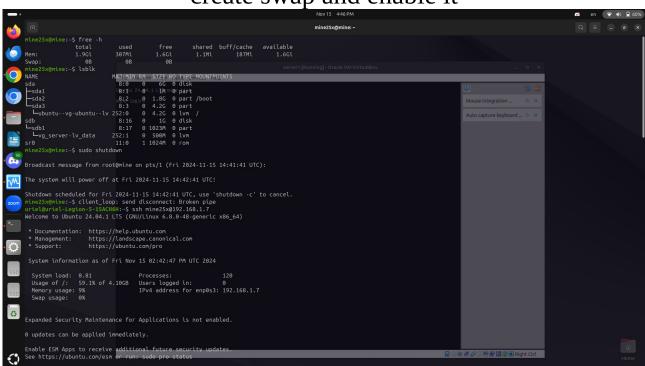
q quit without saving changes<sup>to Ub</sup>untu 24.04.1 LTS (GNU/Linux 6.8.0-48-generic x86_64)
         Save & Exit
           q quit without saving changes o ubuntu 24.54.71.65 to the control of quit without saving changes o ubuntu 24.54.71.65 to the control of quit without saving changement: https://landscape.canonical.com

g create a new empty GPT partition table or 15 02:12:34 PM UTC 2024

o create a new empty MBR (DOS) partition table or create a new empty MBR (DOS) partition table s create a new empty Sun partition table or create a new empty Sun partition table or
         Create a new label
Command (m for help): p
Disk /dev/sdb: 1 GiB, 1073741824 bytes 1 2097152 sector splications is not enabled.
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical%) esi2 bytes /esi2ebytesional future security updates. I/O size (minimum/optimal): 512 bytes /esi2ebytesional future security updates. I/O size (minimum/optimal): 512 bytes bytes run: sudo pro status Disklabel type: dos
Disk identifier: 0x536b7bf5 mine25x@mine: **s _
Partition type
p primary (0 primary, 0 extended, 4 free)
e extended (container for logical partitions)
Select (default p): p
Partition number (1-4, default 1): 1
First sector (2048-2097151, default 2048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2048-2097151, default 2097151):
 Command (m for help): w
  The partition table has been altered.
 Calling ioctl() to re-read partition table.
 Syncing disks.
    nine25x@mine:~$
```

#### mount

create swap and enable it



look there is no sdc so we gonna create a new VHD from VM

