Steps to follow to get access to source code

- 1. Install virtual box and then ubuntu 20.4 inside virtualbox
- 2. Type this command in the Ubuntu terminal:
 - 2.1. ssh-keygen -t ed25519 -C "your_email@example.com"
- 3. Then follow the steps in this link:

https://docs.github.com/en/authentication/connecting-to-github-with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent#adding-your-ssh-key-to-the-ssh-agent

4. Then follow these 8 steps:

https://docs.github.com/en/authentication/connecting-to-github-with-ssh/adding-a-new-ssh-key-to-your-github-account

- 5. Send mail to admin@omnirom.net requesting access to omnirom repositories.
- 6. Next, follow these steps:
 - 6.1. sudo apt install curl
 - 6.2. sudo apt-get install python-is-python3
 - 6.3. mkdir ~/bin

 - 6.5. chmod $a+x \sim /bin/repo$
 - 6.6. git config --global user.email "example@gmail.com"
 - 6.7. git config --global user.name "your username"
 - 6.8. mkdir omni-rom
 - 6.9. cd omni-rom
 - 6.10. python3 ~/bin/repo init -u git://github.com/omnirom/android.git -b android-11
 - 6.11. python3 ~/bin/repo sync -j4
 - 6.12. sudo apt-get install git-core gnupg flex bison build-essential zip curl zlib1g-dev gcc-multilib g++-multilib libc6-dev-i386 lib32ncurses5-dev x11proto-core-dev libx11-dev lib32z1-dev libgl1-mesa-dev libxml2-utils xsltproc unzip fontconfig kpartx sudo dosfstools rsync libncurses5 libssl-dev python3-mako unzip
 - 6.13. git clone https://github.com/omnirom/android_device_brcm_rpi4.git -b android-11 device/brcm/rpi4/
 - 6.14. git clone https://github.com/omnirom/proprietary_vendor_brcm.git -b android-11 vendor/brcm/
 - 6.15. export ROM_BUILDTYPE=WEEKLY
 - 6.16. export TEMPORARY_DISABLE_PATH_RESTRICTIONS=true
 - 6.17. export PRODUCT_EXCLUDE_EXTRA_PACKAGES=true
 - 6.18. source build/envsetup.sh
 - 6.19. breakfast rpi4 userdebug
 - 6.20. ls ~/.repo/local_manifests/
 - 6.21. If the above directory is not present: mkdir .repo/local_manifests/
 - 6.22. If it contains roomservice.xml, continue further or else manually add it to the folder.
 - 6.22.1. Manually copy roomservice.xml to .repo/local_manifests/

6.22.2. python3 ~/bin/repo sync --force-sync -j4

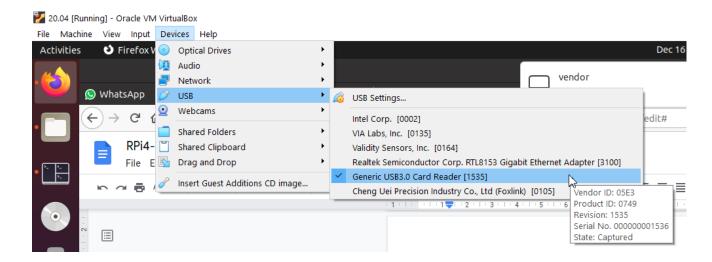
*ctrl + H to show hidden files (useful in finding .repo)

*ctrl + R to search for previous commands easily

6.23. m - j4

#build should be completed in 5-6 hours

- 7. Create an Image by running the script (mk-raspi64-large-image-isana.sh). This is slightly technical, reach out to Isana incase of doubts.
 - 7.1. Variables IN_IMAGE_DIR, IN_BOOT_FILES and OUT_IMAGE_FILE need to be set to proper paths
 - 7.2. The loop device used must be numbered correctly. Run lsblk to find existing loop devices. The scripts in the directory point to loop13 and loop14.
- 8. Insert the SD card in the card reader and connect it to the machine (also make sure the sdcard is transferred to the Virtual Machine).



Now you flash the image created in the above step into the sdcard In this command carefully choose the sd card or else the main hard disk will be wiped out; never choose sda as that is the main hard disk in the system...

This is how your system looks without the sd card inserted

```
lsblk
NAME
      MAJ:MIN RM
                    SIZE RO TYPE MOUNTPOINT
                     4K 1 loop /snap/bare/5
loop0
        7:0
               0 144.6M 1 loop /snap/chromium/1810
loop1
loop2
         7:2
              0 147.8M
                        1 loop /snap/chromium/1827
loop3
                         1 loop /snap/core18/2246
loop4
                   219M
                            loop /snap/gnome-3-34-1804/72
               0
               0 55.5M
                           loop /snap/core18/2253
loop5
         7:5
loop6
        7:6
               0 65.2M
                         1 loop /snap/gtk-common-themes/1519
loop7
               0 49.8M
                         1 loop /snap/snap-store/433
                         1 loop /snap/snap-store/547
loop8
loop9
        7:9
               0 164.8M
                         1 loop /snap/gnome-3-28-1804/161
loop10
         7:10
               0 62.1M
                         1 loop /snap/gtk-common-themes/1506
loop11
                         1 loop /snap/snapd/7264
               0 32.5M
loop12
        7:12
                         1 loop /snap/snapd/13640
loop13
              0 240.8M 1 loop /snap/gnome-3-34-1804/24
sda
        8:0
               0 320G 0 disk
                   512M
—sda1
        8:1
                         0 part /boot/efi
 –sda2
                         0 part
-sda5
               0 319.5G 0 part /
sdb
        8:16
                 500G 0 disk /home/pi/coder2
               1 58.3M 0 rom
sr0
        11:0
                                /media/pi/VBox_GAs_6.1.26
               1 1024M 0 rom
sr1
 i<u>@</u>pi-vm ~
```

Insert the sdcard and your sd card will be named as sdb/sdc/sdd etc.,

```
) lsblk
NAME
                   SIZE RO TYPE MOUNTPOINT
      MAJ:MIN RM
                    4K 1 loop /snap/bare/5
loop0
loop1
               0 144.6M
                           loop /snap/chromium/1810
               0 147.8M 1 loop /snap/chromium/1827
loop2
loop3
        7:3
             0 55.5M 1 loop /snap/core18/2246
loop4
        7:4 0 219M 1 loop /snap/gnome-3-34-1804/72
        7:5 0 55.5M 1 loop /snap/core18/2253
loop5
        7:6 0 65.2M 1 loop /snap/gtk-common-themes/1519
loop6
              0 49.8M
loop7
                        1 loop /snap/snap-store/433
loop8
        7:8
              0
                           loop /snap/snap-store/547
              0 164.8M
                           loop /snap/gnome-3-28-1804/161
loop9
        7:9
loop10
        7:10
                        1 loop /snap/gtk-common-themes/1506
loop11
        7:11
              0 27.1M
                        1 loop /snap/snapd/7264
loop12
        7:12
              0 32.5M 1 loop /snap/snapd/13640
        7:13 0 240.8M 1 loop /snap/gnome-3-34-1804/24
loop13
sda
        8:0
              0 320G 0 disk
-sda1
        8:1
                   512M 0 part /boot/efi
                        0 part
 -sda2
               0 319.5G 0 part /
 -sda5
                  500G 0 disk
sdb
        8:16
               0
                                /nome/pi/coder2
sdd
        8:48
                  14.9G 💛 disk
-sdd1
        8:49
                   128M 0 part /media/pi/boot
 -sdd2
        8:50
                     2G 0 part /media/pi/_
 -sdd3
                   256M 0 part /media/pi/vendor
 -sdd4
        8:52
                        0 part /media/pi/userdata
                   5.6G
                  58.3M
        11:0
                         0 rom
                                /media/pi/VBox_GAs_6.1.26
sr1
                  1024M 0 rom
```

8.1. Then do this command sudo dd if=~/omni-WEEKLY-13.12.2021-2120.img of=/dev/sdb bs=1M