

1. Primero deberemos actualizar el sistema operativo con el comando:

`sudo apt-get update`

```
Ubuntu 16.04.6 LTS ubuntu-intro tty1
ubuntu-intro login: intro
Password:
Last login: Fri Jun 16 17:15:31 -03 2023 on tty1
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-142-generic i686)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage
intro@ubuntu-intro:~$ su root
Password:
root@ubuntu-intro:/home/intro# apt-get update
Hit:1 http://ar.archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://ar.archive.ubuntu.com/ubuntu xenial-updates InRelease [99.8 kB]
Get:3 http://ar.archive.ubuntu.com/ubuntu xenial-backports InRelease [97.4 kB]
Get:4 http://security.ubuntu.com/ubuntu xenial-security InRelease [99.8 kB]
Fetched 297 kB in 13s (21.0 kB/s)
Reading package lists... Done
root@ubuntu-intro:/home/intro# apt-get install lubuntu-desktop
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

2. Instalaremos la interfaz grafica:

a. Para poder instalar la interfaz gráfica: `sudo apt install lubuntu-desktop`

```
python3-aptdaemon,gtk3uidgets,python3-aptdaemon.pkcompat,python3-bs4,python3-cairo,python3-cups,python3-cupshelpers,python3-defer,python3-distro-info,python3-gi-cairo,python3-html5lib,python3-lxml,python3-pexpect,python3-pil,python3-pyprocess,python3-renderpm,python3-reportlab,python3-reportlab-accel,python3-requests,python3-urllib3,python3-xdg,python3-xkit,qdbus,qpdf,qt-at-spi,qtchooser,qtcore4-110n,qttranslations5-110n,variant-compat,rtkit,rtkit,samba-ltbs,sane-utils,sbsigntool,scrot,secureboot-db,session-migration,sessioninstaller,sgml-data,signon-keyring-extension,signon-plugin-oidc,signon-plugin-password,signon-ui,signon-ui-service,signon-ui-x11,signond,simple-scan,software-properties-gtk,sound-theme-freedesktop,ssl-cert,sylpheed,sylpheed-doc,sylpheed-118n,sylpheed-plugins,synaptic,syslinux,syslinux-common,syslinux-legacy,system-config-printer-common,system-config-printer-gnome,system-config-printer-udev,system-tools-backends,titutils,tcl,tcl8.6,tcpd,tk,tk8.6,toshset,transmission,transmission-common,transmission-gtk,ttf-ancient-fonts,symbols,ttf-ubuntu-font-family,ubuntu-drivers-common,ubuntu-mono,ubuntu-release-upgrader-gtk,ubuntu-system-service,ubuntu-touch-sounds,udisks2,unity-control-center,unity-control-center-faces,unity-control-center-sigmon,unity-preeter,unity-settings-daemon,unzip,update-inetd,update-manager,update-notifier,upower,upstart,usb-creator-common,usb-creator-gtk,usb-modeswitch,usb-modeswitch-data,usbmuxd,uvcvncctrl,uvcvncctrl-data,va-driver-all,vbetool,vdpau-driver-all,wamerican,whoopsie,wireless-tools,wpasupplicant,wvdial,x11-apps,x11-common,x11-session-utils,x11-utils,x11-xkb-utils,x11-xserver-utils,xbacklight,xbitmaps,xdg-user-dirs-gtk,xdg-utils,xfburn,xfce4-notified,xfce4-power-manager,xfce4-power-manager-data,xfce4-power-manager-plugins,xfconf,xfonts-100dpi,xfonts-base,xfonts-encodings,xfonts-scalable,xfonts-utils,xinit,xinput,xorg,xorg-docs-core,xpad,xscreensaver,xscreensaver-data,xserver-common,xserver-xorg,xserver-xorg-core,xserver-xorg-input-all,xserver-xorg-input-ewdev,xserver-xorg-input-synaptics,xserver-xorg-input-vmouse,xserver-xorg-input-wacom,xserver-xorg-video-all,xserver-xorg-video-ati,xserver-xorg-video-fbdev,xserver-xorg-video-intel,xserver-xorg-video-nouveau,xserver-xorg-video-qxl,xserver-xorg-video-radeon,xserver-xorg-video-vesa,xserver-xorg-video-vmware,xul-ext-ubufix,xvt,yelp,yelp-xsl,zenity,zenity-common,zip
Se actualizarán los siguientes paquetes:
dbus,gcc-5-base,libc6,libdbus-1-3,libgl1,lib2.0-0,libp11-kit0,libstdc++6,python3-apport,python3-distupgrade,python3-software-properties,python3-update-manager,software-properties-common,ubuntu-release-upgrader-core,update-manager-core,update-notifier-common
15 actualizados, 1247 nuevos se instalarán, 0 para eliminar y 168 no actualizados.
Se necesita descargar 586 MB de archivos.
Se utilizarán 2.192 MB de espacio de disco adicional después de esta operación.
¿Desea continuar? [S/n]
```

b. Una vez terminada la instalación reiniciamos la maquina virtual con el comando:  
`reboot`

1. Actualizar el sistema con: `sudo apt upgrade`

```

No queda espacio en el dispositivo
E: amd64-microcode: cannot create temporary directory
E: /usr/share/initramfs-tools/hooks/amd64_microcode failed with return 1.
update-initramfs: failed for /boot/initrd.img-4.4.0-142-generic with 1.
dpkg: error al procesar el paquete initramfs-tools (--configure):
 el subproceso instalado el script post-installation devolvió el código de salida de error 1
Se encontraron errores al procesar:
 glib1:1386
 gir1.2-gnomekeyring-1.0
 initramfs-tools
root@ubuntu-CLI:/home/ubuntu-cli#

```

2. Abrir en la pestaña del navegador <https://github.com/> abrir sus respectivas cuentas en sus navegadores y clonar la mochila en sus máquinas virtuales.

```

intro@ubuntu-intro2:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
intro@ubuntu-intro2:~$ cd Downloads
intro@ubuntu-intro2:~/Downloads$ git clone https://github.com/janetmu/Mochila-Janet-Marulanda-Usma.git
Cloning into 'Mochila-Janet-Marulanda-Usma'...
remote: Enumerating objects: 42, done.
remote: Counting objects: 100% (42/42), done.
remote: Compressing objects: 100% (40/40), done.
remote: Total 42 (delta 11), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (42/42), done.
Checking connectivity... done.
intro@ubuntu-intro2:~/Downloads$ ls
Mochila-Janet-Marulanda-Usma
intro@ubuntu-intro2:~/Downloads$ cd Mochila-Janet-Marulanda-Usma
intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$ ls
Entrega1 Entrega2 Entrega3 Entrega4 Entrega5 Git-Github
intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$ git checkout -b entrega6
Switched to a new branch 'entrega6'
intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$

```

```

intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$ ifconfig
enp0s3  Link encap:Ethernet  HWaddr 08:00:27:ab:16:33
        inet addr:10.0.2.15  Bcast:10.0.2.255  Mask:255.255.255.0
        inet6 addr: fe80::a00:27ff:feeb:1633/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:18092 errors:0 dropped:0 overruns:0 frame:0
        TX packets:7106 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:22220636 (22.2 MB)  TX bytes:998147 (998.1 KB)

lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:65536  Metric:1
        RX packets:16 errors:0 dropped:0 overruns:0 frame:0
        TX packets:16 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1
        RX bytes:1872 (1.8 KB)  TX bytes:1872 (1.8 KB)

intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$

```

```

intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$ nano lasDireccionessDeMiVM.txt

```

```
intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$ cat lasDireccionesDeMiVM.txt
Direccion IP de mi VM:  inet addr:10.0.2.15
Direccion MAC de mi VM:  HWaddr 08:00:27:eb:16:33

La IP pública y privada de mi maquina host son diferentes.

intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$
```

```
intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$ git status
On branch entrega6
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    lasDireccionesDeMiVM.txt

nothing added to commit but untracked files present (use "git add" to track)
intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$ git add .
intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$ git status
On branch entrega6
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   lasDireccionesDeMiVM.txt
```

```
intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$ git commit -m "agregando entrega6 interfaz grafica"
[entrega6 c1452bfb] agregando entrega6 interfaz grafica
1 file changed, 5 insertions(+)
 create mode 100644 lasDireccionesDeMiVM.txt
intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$ git push origin entrega6
Username for 'https://github.com': janetmu
Password for 'https://janetmu@github.com':
Counting objects: 3, done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 427 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'entrega6' on GitHub by visiting:
remote:   https://github.com/janetmu/Mochila-Janet-Marulanda-Usma/pull/new/entrega6
remote:
To https://github.com/janetmu/Mochila-Janet-Marulanda-Usma.git
 * [new branch]   entrega6 -> entrega6
intro@ubuntu-intro2:~/Downloads/Mochila-Janet-Marulanda-Usma$
```