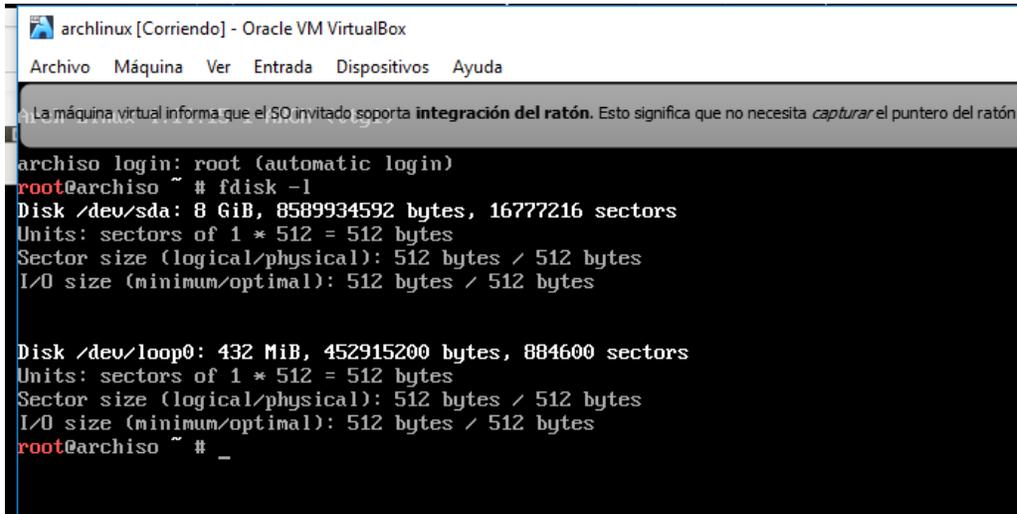


Después de descargar la ISO de ArchLinux y el programa de “VirtualBox” procederemos a realizar los siguientes pasos:

1. Particionar el disco

En loop0 está actualmente ejecutando el sistema



```
archlinux [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
La máquina virtual informa que el SO invitado soporta integración del ratón. Esto significa que no necesita capturar el puntero del ratón p
archiso login: root (automatic login)
root@archiso ~ # fdisk -l
Disk /dev/sda: 8 GiB, 8589934592 bytes, 16777216 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

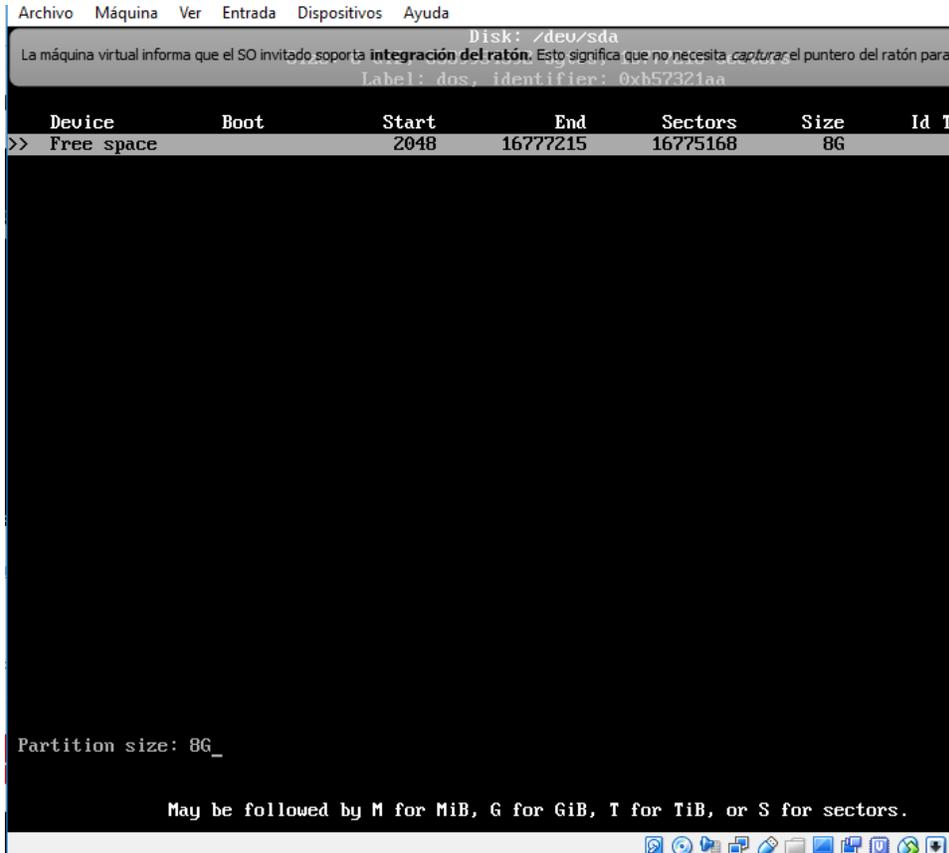
Disk /dev/loop0: 432 MiB, 452915200 bytes, 884600 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
root@archiso ~ # _
```

Para configurar la partición del disco introducimos el comando `cdisk /dev/sda`

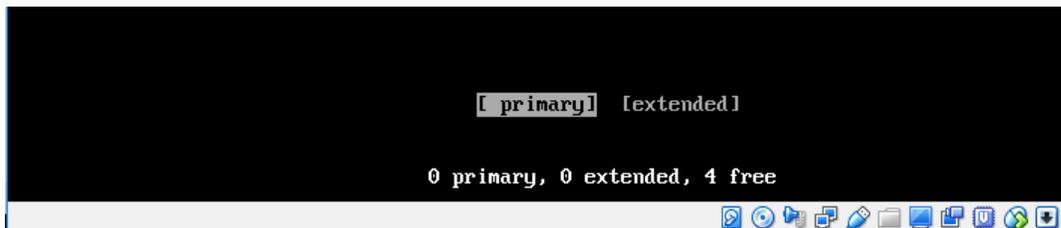


Nos preguntará en cuantas partes queremos particionar el disco. Indicamos 2

Ahora, creamos la partición en donde se alojarán nuestros archivos de sistema



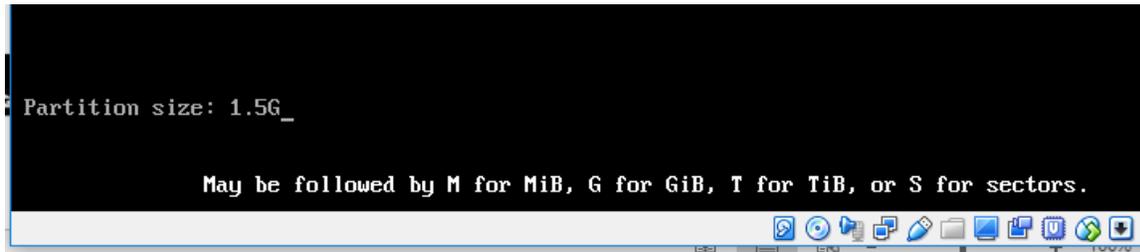
El número total de GB que hay en el disco duro es de 8 GB. Dejamos 6 GB para pa partición primaria.



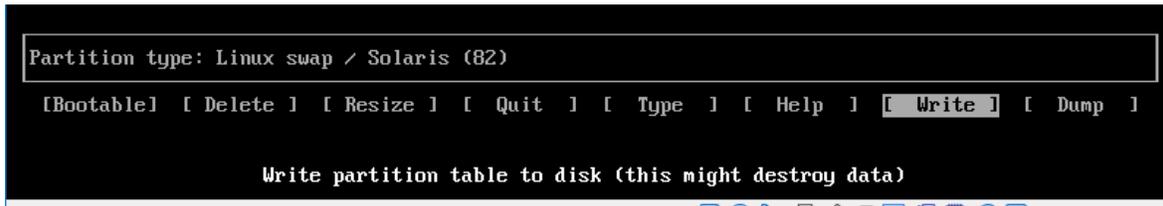
La configuramos como booteable



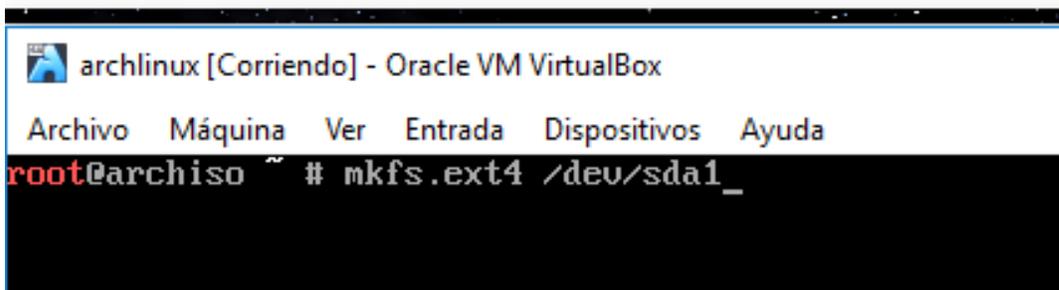
Con el espacio sobrante creamos otra partición primaria:



Elegimos el tipo de Linux que queremos tener y guardamos los cambios:



2. Formateamos las particiones creadas



```

Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
root@archiso ~ # mkfs.ext4 /dev/sda1
mke2fs 1.43.8 (1-Jan-2018)
Creating filesystem with 1709056 4k blocks and 427392 inodes
Filesystem UUID: a7efc28d-f72b-4c71-b535-8fba24a3f963
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632

Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done

root@archiso ~ # mkfs.ext4 /dev/sda2
mke2fs 1.43.8 (1-Jan-2018)
Creating filesystem with 387840 4k blocks and 96960 inodes
Filesystem UUID: ac8551a4-3b23-4261-a74e-6c1ce6eeb498
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

root@archiso ~ # mkswap /dev/sda2
mkswap: /dev/sda2: warning: wiping old ext4 signature.
Setting up swapspace version 1, size = 1.5 GiB (1588588544 bytes)
no label, UUID=f8451a4d-34b4-45dc-abb9-459689e35ecc
root@archiso ~ # swapon /dev/sda2
root@archiso ~ #

```

Instalamos sistema y revisamos que tengamos instalada la conexión a internet

```

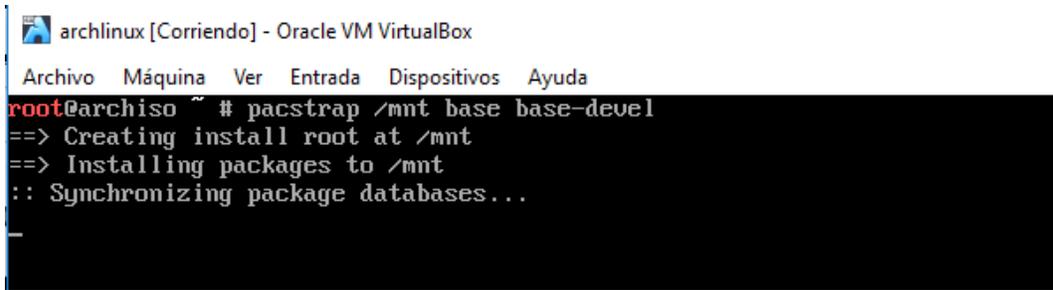
archlinux [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=19 ttl=57 time=12.5 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=20 ttl=57 time=6.74 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=21 ttl=57 time=10.0 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=22 ttl=57 time=12.5 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=23 ttl=57 time=7.60 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=24 ttl=57 time=9.75 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=25 ttl=57 time=12.6 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=26 ttl=57 time=7.30 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=27 ttl=57 time=9.93 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=28 ttl=57 time=13.3 ms

64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=29 ttl=57 time=7.51 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=30 ttl=57 time=9.49 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=31 ttl=57 time=12.2 ms
64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=32 ttl=57 time=7.50 ms

64 bytes from gro02s11-in-f14.1e100.net (216.58.193.14): icmp_seq=33 ttl=57 time=9.08 ms

```

3. Instalamos los paquetes

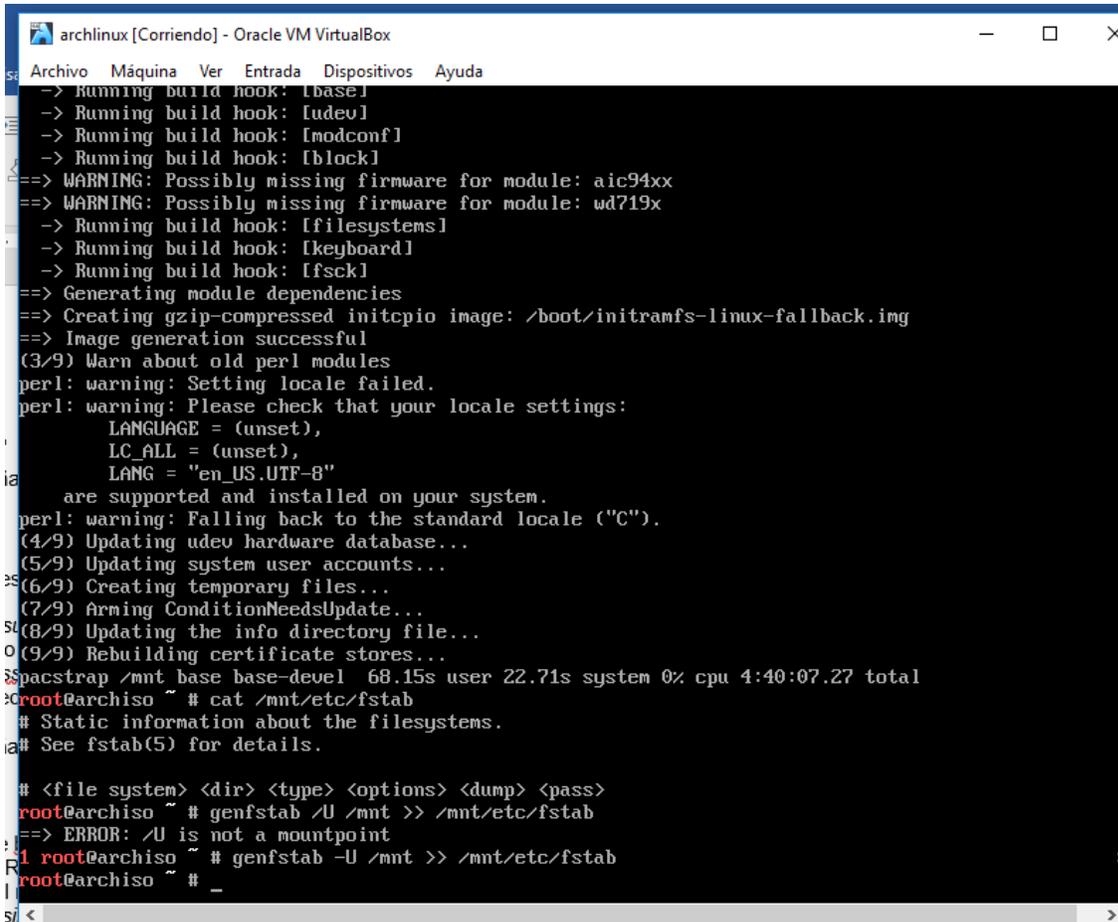


```

archlinux [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
root@archiso ~ # pacstrap /mnt base base-devel
==> Creating install root at /mnt
==> Installing packages to /mnt
:: Synchronizing package databases...

```

Después, creamos un archivo para las particiones:



```

archlinux [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
-> Running build hook: [base]
-> Running build hook: [udev]
-> Running build hook: [modconf]
-> Running build hook: [block]
==> WARNING: Possibly missing firmware for module: aic94xx
==> WARNING: Possibly missing firmware for module: wd719x
-> Running build hook: [filesystems]
-> Running build hook: [keyboard]
-> Running build hook: [fsck]
==> Generating module dependencies
==> Creating gzip-compressed initcpio image: /boot/initramfs-linux-fallback.img
==> Image generation successful
(3/9) Warn about old perl modules
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
    LANGUAGE = (unset),
    LC_ALL = (unset),
    LANG = "en_US.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
(4/9) Updating udev hardware database...
(5/9) Updating system user accounts...
(6/9) Creating temporary files...
(7/9) Arming ConditionNeedsUpdate...
(8/9) Updating the info directory file...
(9/9) Rebuilding certificate stores...
pacstrap /mnt base base-devel 68.15s user 22.71s system 0% cpu 4:40:07.27 total
root@archiso ~ # cat /mnt/etc/fstab
# Static information about the filesystems.
# See fstab(5) for details.

# <file system> <dir> <type> <options> <dump> <pass>
root@archiso ~ # genfstab /U /mnt >> /mnt/etc/fstab
==> ERROR: /U is not a mountpoint
1 root@archiso ~ # genfstab -U /mnt >> /mnt/etc/fstab
root@archiso ~ # _

```

Creamos la raíz

```
# <file system> <dir> <type> <options> <dump> <pass>
root@archiso ~ # genfstab /U /mnt >> /mnt/etc/fstab
==> ERROR: /U is not a mountpoint
1 root@archiso ~ # genfstab -U /mnt >> /mnt/etc/fstab
root@archiso ~ # arch/chroot /mnt
zsh: no such file or directory: arch/chroot
127 root@archiso ~ # cat /mnt/etc/fstab
# Static information about the filesystems.
# See fstab(5) for details.

# <file system> <dir> <type> <options> <dump> <pass>
# /dev/sda1
UUID=a7efc28d-f72b-4c71-b535-8fba24a3f963      /          ext4          rw,relatime,da
ered      0 1

# /dev/sda2
UUID=f8451a4d-34b4-45dc-abb9-459689e35ecc      none       swap          defaults,pri=-2

root@archiso ~ # arch-chroot /mnt
[root@archiso /]# _
```

4. Cambiamos contraseña de root:

```
archlinux [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
[root@archiso /]# hwclock --systohc -utc
hwclock: invalid option -- 't'
Try 'hwclock --help' for more information.
[root@archiso /]# hwclock --systohc --utc
[root@archiso /]# passwd
New password:
Retype new password: _
```

5. Instalamos el Grub:

```

archlinux [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
[root@archiso /]# hwclock --systohc -utc
hwclock: invalid option -- 't'
Try 'hwclock --help' for more information.
[root@archiso /]# hwclock --systohc --utc
[root@archiso /]# passwd
New password:
Retype new password:
passwd: password updated successfully
[root@archiso /]# im pacman -S grub/BIOS
bash: im: command not found
[root@archiso /]# pacman -S grub/BIOS
error: database not found: grub
[root@archiso /]# pacman -S grub/bios
error: database not found: grub
[root@archiso /]# pacman -S grub-bios
resolving dependencies...
looking for conflicting packages...

Packages (1) grub-2:2.02-4

Total Download Size:    6.03 MiB
Total Installed Size:  29.99 MiB

:: Proceed with installation? [Y/n] y_

```

Después de instalarlo configuramos el menú de inicio con:

```
grub-mkconfig-o /boot/grub/grub.cfg
```

```

[root@archiso /]#
[root@archiso /]#
[root@archiso /]#
[root@archiso /]#
[root@archiso /]# grub-mkconfig-o /boot/grub/grub.cfg

```

Después configuramos el init RAM con:

```
Mkinitpcpio -p linux
```

Para habilitar la tarjeta de internet (para que el internet sea constante y esté siempre activa)

Con el comando `ip link systemctl enable dhcpcd@enep0s3`.

6. Por último para salir de la partición `>exit> umount/mnt/ reboot`

Procedemos a desmontar el disco de instalación y reiniciamos la máquina. Finalizamos el proceso de instalación.