UEFI trabaja con GPT y actualmente es el mejor y trabaja con 128 particiones MBR/DOS trabaja con BIOS LEGACY un sistema ya viejo y solo trabaja con 4 particiones No se pude trabajar GPT con BIOS LEGACY

Todo depende de tu placa si acepta UEFI o BIOS LEGACY

De preferencia al hacer esta conversión hagan una copia de seguridad de sus datos.

#### Convertir discos de MBR/DOS a GPT

## fdisk -1

/\*Para ver nuestro Disklabel /\*Vemos que esta en dos y tiene 4 particiones

/\*Ejecutamos gdisk [ruta-de-disco]
/\*Y podemos ver las opciones presionando > ?

# gdisk /dev/sda

```
root@archiso ~ # gdisk /dev/sda
GPT fdisk (gdisk) version 1.0.4
Partition table scan:
   MBR: MBR only
   BSD: not present
  APM: not present GPT: not present
Found invalid GPT and valid MBR; converting MBR to GPT format in memory. THIS OPERATION IS POTENTIALLY DESTRUCTIVE! Exit by typing 'q' if you don't want to convert your MBR partitions to GPT format!
Warning! Secondary partition table overlaps the last partition by
You will need to delete this partition or resize it in another utility.
Command (? for help): ? 

b back up GPT data to a file
            change a partition's name
            delete a partition
show detailed information on a partition
           list known partition types add a new partition
           create a new empty GUID partition table (GPT)
           print the partition table
           quit without saving changes recovery and transformation options (experts only) sort partitions
           change a partition's type code verify disk
            write table to disk and exit
            extra functionality (experts only)
print this menu
Command (? for help):
```

```
Command (? for help):
Proceed? (Y/N):
Command (? for help):
Do you want to proceed? (Y/N):
```

c d

t

Ü

```
add a new partition create a new empty GUID partition table (GPT) print the partition table quit without saving changes recovery and transformation options (experts only) continuation.
               sort partitions
               change a partition's type code
              verify disk
write table to disk and exit
extra functionality (experts only)
     w
     x
               print this menu
     Command (? for help): o
    This option deletes all partitions and creates a new protective MBR. Proceed? (Y/N): Y
Command (? for help): o
 This option deletes all partitions and creates a new protective MBR.
 Proceed? (Y/N): Y
 Command (? for help): ?
           back up GPT data to a file
           change a partition's name delete a partition
           show detailed information on a partition
           list known partition types
           add a new partition
          create a new empty GUID partition table (GPT) print the partition table
           quit without saving changes
          recovery and transformation options (experts only) sort partitions
           change a partition's type code
           verify disk
           write table to disk and exit
           extra functionality (experts only)
          print this menu
         verify disk
write table to disk and exit
         extra functionality (experts only) print this menu
Command (? for help): w 🚄
Final checks complete. About to write GPT data. THIS WILL OVERWRITE EXISTING
PARTITIONS!!
Do you want to proceed? (Y/N): Y
OK; writing new GUID partition table (GPT) to /dev/sda. •
The operation has completed successfully.
  root@archiso ~ #
root@archiso ~ # fdisk -l
```

```
Disk /dev/sda: 50 GiB, 53687091200 bytes, 104857600 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: 955ACCC3-BDA4-46D9-B7C5-959EEAEEB71A
Disk /dev/loop0: 524.49 MiB, 549953536 bytes, 1074128 sectors
```

/\*Y como vemos al convertir nuestro disco a GPT elimino toda partición /\*Dejando el Disco Vació, así que tengan cuidado al convertirlo

## Convertir discos de GPT a MBR/DOS

## fdisk -l

/\*Para ver nuestro Disklabel /\*Vemos que esta en GPT y tiene 1 partición /\*Ejecutamos gdisk [ruta-de-disco] /\*Y podemos ver las opciones presionando > ?

#### gdisk /dev/sda

```
root@archiso ~ # fdisk -l
Disk /dev/sda: 50 GiB, 53687091200 bytes, 104857600 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: FE8A36D6-39B2-4E31-8158-BFE8D90F30EC
Device
           Start
                             Sectors Size Type
                       End
            2048 104857566 104855519 50G Linux filesystem
/deu/sda1
Disk /dev/loop0: 524.49 MiB, 549953536 bytes, 1074128 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 ~ #
root@archiso ~ # gdisk /dev/sda
GPT fdisk (gdisk) version 1.0.4
Partition table scan:
  MBR: protective
  BSD: not present
  APM: not present
  GPT: present
Found valid GPT with protective MBR; using GPT.
Command (? for help): ?
        back up GPT data to a file
        change a partition's name
d
        delete a partition
        show detailed information on a partition
        list known partition types
        add a new partition
        create a new empty GUID partition table (GPT)
        print the partition table
        quit without saving changes
q
        recovery and transformation options (experts only)
        sort partitions
        change a partition's type code
        verify disk
        write table to disk and exit
        extra functionality (experts only)
        print this menu
Command (? for help): r_ 🗂
```

```
Command (? for help):

Recovery/transformation command (? for help):

MBR command (? for help):

MBR command (? for help):

W

Converted 1 partitions. Finalize and exit? (Y/N):
```

```
Command (? for help): r
Recovery/transformation command (? for help): ?
        use backup GPT header (rebuilding main)
Ъ
        load backup partition table from disk (rebuilding main)
d
        use main GPT header (rebuilding backup)
        load main partition table from disk (rebuilding backup)
е
f
        load MBR and build fresh GPT from it
        convert GPT into MBR and exit
        make hybrid MBR
h
        show detailed information on a partition
        load partition data from a backup file
        return to main menu
o
        print protective MBR data
        print the partition table
p
        quit without saving changes
q
t
        transform BSD disklabel partition
        verify disk
        write table to disk and exit
        extra functionality (experts only)
        print this menu
Recovery/transformation command (? for help): g_
```

```
Recovery/transformation command (? for help): g 🚤
MBR command (? for help): ?  
a toggle the active/boot flag
          recompute all CHS values
          set partition as logical
          omit partition
          print the MBR partition table
          quit without saving changes
         set partition as primary
sort MBR partitions
         change partition type code write the MBR partition table to disk and exit
MBR command (? for help): p
** NOTE: Partition numbers do NOT indicate final primary/logical status,
 ↔ unlike in most MBR partitioning tools!
** Extended partitions are not displayed, but will be generated as required.
Disk size is 104857600 sectors (50.0 GiB)
MBR disk identifier: 0x00000000
MBR partitions:
                                                               Can Be
                                                                          Can Be
                                   End Sector
Number Boot Start Sector
                                                   Status
                                                               Logical
                                                                         Primary
                                                                                      Code
                                    104857566
                           2048
                                                   primary
MBR command (? for help): ?
          toggle the active/boot flag
         recompute all CHS values
         set partition as logical
omit partition
print the MBR partition table
quit without saving changes
          set partition as primary
          sort MBR partitions
         change partition type code write the MBR partition table to disk and exit
MBR command (? for help): _
```

```
Disk size is 104857600 sectors (50.0 GiB)
MBR disk identifier: 0x00000000
MBR partitions:
                                                    Can Be
                                                             Can Be
Number Boot Start Sector
                              End Sector
                                           Status
                                                    Logical
                                                             Primaru
                                                                        Code
                       2048
                               104857566
                                           primary
                                                                        0x83
MBR command (? for help): ?
        toggle the active/boot flag
        recompute all CHS values
        set partition as logical
        omit partition print the MBR partition table
o
p
        quit without saving changes
q
        set partition as primary
        sort MBR partitions
        change partition type code
        write the MBR partition table to disk and exit
MBR command (? for help): w
Converted 1 partitions. Finalize and exit? (Y/N): Y
GPT data structures destroyed! You may now partition the disk using fdisk or
other utilities.
root@archiso
MBR command (? for help): w
Converted 1 partitions. Finalize and exit? (Y/N): Y
GPT data structures destroyed! You may now partition the disk using fdisk or
other utilities.
 oot@archiso ~ # fdisk -l
Disk /dev/sda: 50 GiB, 53687091200 bytes, 104857600 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x00000000
Device
           Boot Start
                            End
                                  Sectors Size Id Type
                 2048 104857566 104855519 50G 83 Linux
/deu/sda1
Disk /dev/loop0: 524.49 MiB, 549953536 bytes, 1074128 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 ~ #
```

/\*Aún no estoy seguro si todos los datos de sda1 estén bien o haya sufrido cambios /\*Pero ya tenemos nuestro disco en MBR/Dos

/\*Consejo si tu placa puede trabajar con UEFI es mejor que uses tu disco en GPT

/\*Dejo algunas diferencias.

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## BIOS LEGACY (Antiguo) - EFI o UEFI (Moderno)

Aquí depende del modelo de tu placa (Se puede actualizar de BIOS y pasar a UEFI)

Diferencias: (Existen más pero esto es el resumen :D )

- -UEFI es el acrónimo de Unified Extensible Firmware Interface.
- -UEFI tiene una mayor velocidad de arrangue.
- -UEFI Permite arrancar HDD y SSD de más de 2 TB utilizando GPT.
- -UEFI puede ejecutarse en 32 o 64 bits, lo que posibilita un mayor rendimiento y una mayor velocidad de arranque o apagado.
- -BIOS es el acrónimo de Basic Input Output System.
- -BIOS viene dada por el sistema MBR (Master Boot Record).
- -BIOS no puede leer otro sistema que no sea este MBR, GPT no es reconocible.

Para ver entrar al BIOS o UEFI son pulsando suprimir (del), o F2, o F1 o en algunos casos F10 son las más comunes.



MBR (Antiguo) - GPT (Moderno)

- -MBR acrónimo de Master Boot Record.
- -MBR el tamaño máximo de estas unidades es los 2 TB.
- -MBR solo permite un máximo de cuatro particiones por cada disco duro.
- -MBR Solo es posible 4 particiones, la 4 partición es extendida para tener más particiones.
- -MBR funciona en sistemas operativos de 64 y 32 bits.
- -GPT acrónimo de GUID Partition Table.
- -GPT es capaz de ser empleado con unidades de 9,4 ZB. (Cada Zettabyte equivale a mil billones de Gigabytes)
- -GPT su límite es de 128 particiones por cada disco duro.
- -GPT sólo funciona en sistemas operativos de 64 bits.

Se puede usar migrar su disco MBR a GPT pero debes tener el riesgo de perder toda su información en el disco.