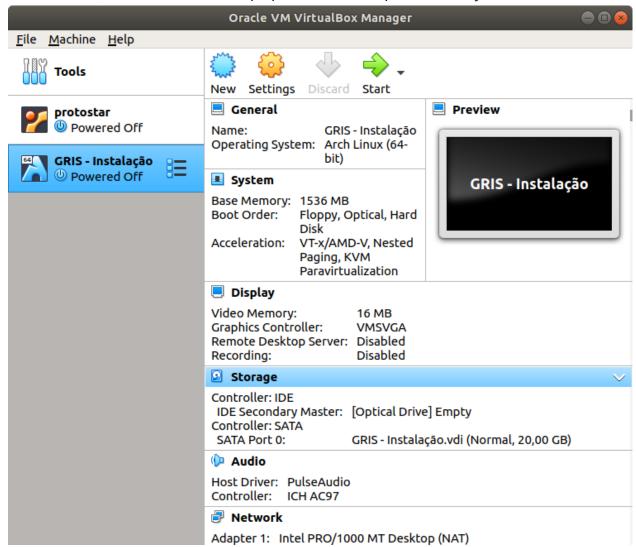
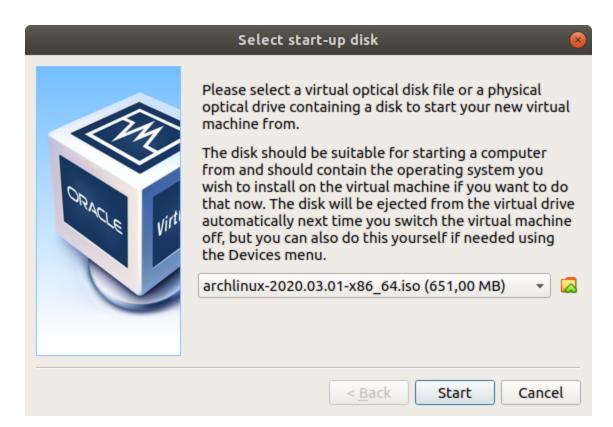
Filipe Augusto da Silva

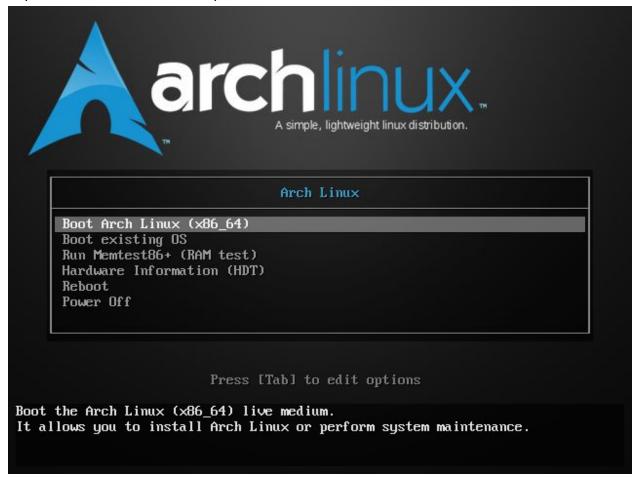
INSTALAÇÃO DO SISTEMA OPERACIONAL ARCH LINUX

Primeiramente, instalei o virtualbox e preparei o ambiente para a instalação do linux.





Depois disso, iniciei o sistema operacional com a ISO mostrada.



O primeiro passo foi escolher o layout do teclado para poder configurar os demais itens corretamente.

```
root@archiso ~ # localectl list-keymaps | grep -i br-latin1-abnt2
br-latin1-abnt2
root@archiso ~ # loadkeys br-latin1-abnt2
root@archiso ~ # _
```

Selecionado o padrão correto, o teclado está funcionando corretamente.

Agora, procuro checar a conexão com a internet.

```
root@archiso " # ping -c 3 google.com
PING google.com (172.217.29.142) 56(84) bytes of data.
64 bytes from gru10s01-in-f14.1e100.net (172.217.29.142): icmp_seq=1 ttl=63 time=24.5 ms
64 bytes from gru10s01-in-f14.1e100.net (172.217.29.142): icmp_seq=2 ttl=63 time=40.1 ms
64 bytes from gru10s01-in-f14.1e100.net (172.217.29.142): icmp_seq=3 ttl=63 time=24.2 ms
--- google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/aug/max/mdev = 24.177/29.585/40.109/7.442 ms
root@archiso " # _
```

Uma vez que verifiquei que temos acesso à internet, configura o Network Time Protocol (NTP) para permitir o sistema atualizar o horário pela rede.

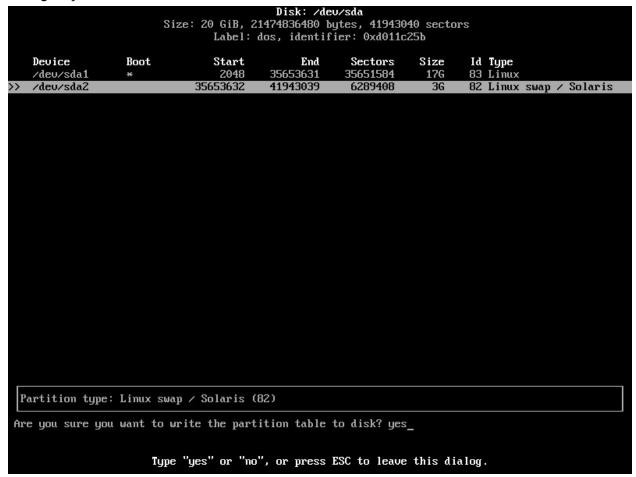
```
root@archiso ~ # timedatectl set-ntp true
root@archiso ~ #
```

Próximo, devo criar uma partição no disco rígido. Criarei uma para o Arch Linux e outro de SWAP. Assim, lista-se os drives disponíveis.

```
root@archiso " # fdisk -1
Disk /dev/sda: 20 GiB, 21474836480 bytes, 41943040 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

Disk /dev/loop0: 534.78 MiB, 560738304 bytes, 1095192 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
I/O size (minimum/optimal): 512 bytes / 512 bytes
root@archiso " # cfdisk /dev/sda_
```

Configuração final:



Crio o filesystem "ext4", assim como o espaço de SWAP, ativo a SWAP e faço o "mount" no diretório "/mnt".

Agora, utilizo o utilitário pactrap para instalar todos os componentes necessários do Arch.

```
root@archiso ~ # pacstrap /mnt base base-devel_
```

Gero o arquivo fstab.

```
root@archiso ~ # genfstab -U /mnt >> /mnt/etc/fstab
root@archiso ~ # _
```

Dou um chroot no diretório "mouted".

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

Escolho o zona de horário e atualizo o relógio do hardware.

```
[root@archiso /]# cd /usr/share/zoneinfo/
[root@archiso zoneinfol# ls
Africa
           CET
                                                                         UTC
                     Egypt
                              GMT+0
                                         Iran
                                                     MST7MDT Poland
                                                                                       posixrules
            CST6CDT
                     Eire
                              GMT-0
                                          Israel
                                                     Mexico
                                                              Portuga 1
                                                                         Universal
America
                                                                                       right
                                                                         W-SU
Antarctica
                              GMTO
                                                    NZ
                                                              ROC
            Canada
                     Etc
                                         Jamaica
                                                                                       tzdata.zi
                                                     NZ-CHAT
                                                                         WET
Arctic
            Chile
                     Europe
                              Greenwich
                                         Japan
                                                              ROK
                                                                                       zone.tab
Asia
            Cuba
                     Factory
                              HST
                                         Kwajalein
                                                     Nava jo
                                                              Singapore
                                                                         Zulu
                                                                                       zone1970.tab
                                         Libya
                                                              Turkey
Atlantic
            EET
                     GB
                                                     PRC
                                                                          iso3166.tab
                              Hongkong
Australia
            EST
                     GB-Eire
                              Iceland
                                         MET
                                                     PST8PDT
                                                              UCT
                                                                         leapseconds
                                         MST
Brazil
            EST5EDT
                    GMT
                              Indian
                                                     Pacific US
                                                                         posix
[root@archiso zoneinfo]# cd Brazil
[root@archiso Brazil]# ls
Acre DeNoronha East West
[root@archiso Brazil]# cd East
bash: cd: East: Not a directory
[root@archiso Brazil]# In -sf East /etc/localtime
[root@archiso Brazil]# hwclock --systohc
[root@archiso Brazil]#
```

Gero o arquivo "locale" e escolho o Português. Em seguida, escolho o hostname para esta nova distribuição.

```
[root@archiso Brazil]# locale-gen
Generating locales...
Generation complete.
[root@archiso Brazil]# echo "LANG=pt_BR.UTF-8" > /etc/locale.conf
[root@archiso Brazil]# cat /etc/hostname
cat: /etc/hostname: No such file or directory
[root@archiso Brazil]# echo "augustoarch" > /etc/hostname
[root@archiso Brazil]# echo "augustoarch" > /etc/hostname
```

Ativo o DHCP e crio uma nova senha do root.

```
root@archiso ~ # systemctl enable dhcpcd
Created symlink /etc/systemd/system/multi-user.target.wants/dhcpcd.service → /usr/lib/systemd/system
/dhcpcd.service.
root@archiso ~ # passwd
New password:
Retype new password:
passwd: password updated successfully
root@archiso ~ #
```

Agora é a hora de instalar o Boot Loader utilizando o utilitário pacman.

```
[root@archiso ~]# pacman -S grub os-prober
resolving dependencies...
looking for conflicting packages...
Packages (2) grub-2:2.04-5 os-prober-1.77-1
Total Download Size:
                       6.69 MiB
Total Installed Size: 32.65 MiB
:: Proceed with installation? [Y/n] Y
:: Retrieving packages...
grub-2:2.04-5-x86_64
os-prober-1.77-1-x86_64
                                   6.7 MiB
                                            121 KiB/s 00:56 [######################## ] 100%
                                  16.8 KiB 51.6 KiB/s 00:00 [############################# 100%
(2/2) checking keys in keyring
                                                              [######### ] 100%
(2/2) checking package integrity
                                                              [######### ] 100%
                                                              [######### 100%
(2/2) loading package files
(2/2) checking for file conflicts (2/2) checking available disk space
                                                              [######### ] 100%
                                                               [########## 100%
: Processing package changes...
(1/2) installing grub
                                                              [########## 100%
Generate your bootloader configuration with:
 grub-mkconfig -o /boot/grub/grub.cfg
Optional dependencies for grub
    freetype2: For grub-mkfont usage
    fuse2: For grub-mount usage
   dosfstools: For grub-mkrescue FAT FS and EFI support efibootmgr: For grub-install EFI support
    libisoburn: Provides xorriso for generating grub rescue iso using grub-mkrescue
   os-prober: To detect other OSes when generating grub.cfg in BIOS systems [pending]
   mtools: For grub-mkrescue FAT FS support
(2/2) installing os-prober
:: Running post-transaction hooks...
                                                              [########## ] 100%
(1/2) Arming ConditionNeedsUpdate...
(2/2) Updating the info directory file...
[root@archiso ~]#
[root@archiso
[root@archiso ~]# grub-install /dev/sda
Installing for i386-pc platform.
Installation finished. No error reported.
[root@archiso ~]#
[root@archiso ~]# grub-mkconfig -o /boot/grub/grub.cfg
Generating grub configuration file ...
[root@archiso ~]# _
```

Para instalar o ambiente de desktop, começo instalando o gnome e o xorg.

[root@archiso /]# pacman -S gnome

Habilito o gdm.service.

Reinicio a máquina virtual e aparece o terminal GRUB.

```
GNU GRUB version 2.04

Minimal BASH-like line editing is supported. For the first word,
TAB lists possible command completions. Anywhere else TAB lists
possible device or file completions.

grub> _
```

A partir desse então, não consegui prosseguir. Todas as tentativas de instalar a interface do "gnome", assim como o "lightdm", foram frustradas. O terminal GRUB não consegue carregar o kernel do sistema operacional.