

# Arch install notes (uEFI & Nvidia)

Before starting the bootable media, if you are on a GTX 10XX, the interface will not load properly, to fix this in the arch iso boot menu, click on the "e" key and add "nouveau.modeset=0" at the end of grub

```
cfdisk /dev/sda
```

Create 3 partitions as listed below, and change the type for sda2 and sda3

/dev/sda1 = FAT partition for EFI  
/dev/sda2 = / (root)  
/dev/sda4 = swap

```
mkfs.fat -F32 /dev/sda1  
mkfs.ext4 /dev/sda2  
mkswap /dev/sda3  
swapon /dev/sda3
```

```
mount /dev/sda2 /mnt  
mkdir /mnt/boot  
mount /dev/sda1 /mnt/boot  
vi /etc/pacman.d/mirrorlist  
pacstrap -i /mnt base base-devel  
genfstab -U -p /mnt >> /mnt/etc/fstab
```

```
arch-chroot /mnt
```

check with "mount" if /sys/firmware/efi/efivars is mounted

```
vi /etc/locale.gen  
locale-gen
```

```
echo LANG=en_US.UTF-8 > /etc/locale.conf
export LANG=en_US.UTF-8
ls /usr/share/zoneinfo/
ln -s /usr/share/zoneinfo/your-time-zone > /etc/localtime
hwclock --systohc --utc
```

```
echo my_linux > /etc/hostname
```

```
vi /etc/pacman.conf
```

```
## [multilib]
Include = /etc/pacman.d/mirrorlist

[archlinuxfr]
SigLevel = Never
Server = http://repo.archlinux.fr/$arch
```

```
pacman -Sy
pacman -S bash-completion vim ntfs-3g
```

```
useradd -m -g users -G wheel,storage,power -s /bin/bash dave
passwd
passwd dave
visudo
%wheel ALL=(ALL) ALL
```

```
bootctl install
vim /boot/loader/entries/arch.conf
```

```
## title Arch Linux
linux /vmlinuz-linux
initrd /initramfs-linux.img
```

```
echo "options root=PARTUUID=$(blkid -s PARTUUID -o value /dev/sdb3) rw" >>
/boot/loader/entries/arch.conf
```

If you own a Haswell processor or higher

```
pacman -S intel-ucode
```

```
## title Arch Linux
initrd /intel-ucode.img
initrd /initramfs-linux.img
```

```
ip add
systemctl dhcpd@eth0.service
```

Now Lets get the graphical stuff:

```
pacman -S nvidia-dkms libglvnd nvidia-utils opengl-nvidia lib32-libglvnd lib32-nvidia-utils
lib32-opengl-nvidia nvidia-settings gnome linux-headers
vim /etc/mkinitcpio.conf
```

```
## MODULES="nvidia nvidia_modeset nvidia_uvm nvidia_drm"
```

```
vim /boot/loader/entries/arch.conf
```

```
## options root=PARTUUID=bada2036-8785-4738-b7d4-2b03009d2fc1 rw nvidia-
drm.modeset=1
```

```
vim /etc/pacman.d/hooks/nvidia.hook
```

```
## [Trigger]
Operation=Install
Operation=Upgrade
Operation=Remove
Type=Package
Target=nvidia
```

```
[Action]
Depends=mkinitcpio
When=PostTransaction
Exec=/usr/bin/mkinitcpio -P
```

```
exit
umount -R /mnt
reboot
```

## POST INSTALL

```
pacman -S xf86-input-synaptics mesa xorg-server xorg-apps xorg-xinit xorg-twm xorg-xclock
xterm yaourt gnome nodm
systemctl enable NetworkManager
systemctl disable dhcpcd@.service
systemctl enable nodm
vim /etc/nodm.conf
```

```
“ NODM_USER=dave
  NODM_XSESSION=/home/dave/.xinitrc
```

```
vim /etc/pam.d/nodm
```

```
auth      include  system-local-login
account   include  system-local-login
password  include  system-local-login
session   include  system-local-login
```

reboot

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Revision #12  
Created 3 July 2017 03:30:59 by Dave  
Updated 3 September 2018 23:53:45 by Dave