For arch linux 5.11.16-arch1-1

1. **Check networking**
   1. ping google.com
2. **Make sure system clock is accurate**
   1. timedatectl set-ntp true
   2. timedatectl status
3. **Partition drives**
   1. fdisk /dev/DRIVE
   2. **EFI part**
      1. g for gpt disk
      2. n for new partition
      3. 1 for partition number
      4. Enter start at first possible sector of partition
      5. +550M to end after 550Mb
      6. t change the type of the partition
      7. 1 for EFI System
   3. **Swap part**
      1. n for new partition
      2. 2 for partition number
      3. Enter start at first possible sector of partition
      4. +XG where X is the size of swap partition in Gb
      5. t to change type
      6. 2 to select the 2nd partition that we just made
      7. 19 to select type swap
   4. **System Root part** 
      1. n for new partition
      2. 3
      3. Enter start at first possible sector of partition
      4. Enter again to just extend to the end of the drive
         1. Or +XG where X is the size of partition in Gb
      5. w to write to the partitions
4. **Make file systems**
   1. **EFI FS**
      1. mkfs.fat -F32 /dev/partition#1
   2. **Swap FS**
      1. mkswap /dev/partition#2
      2. swapon /dev/partition#2
   3. **Root FS**
      1. mkfs.ext4 /dev/partition#3
5. **Mount root partition**
   1. mount /dev/partition#3 /mnt
6. **Install base system for arch**
   1. pacstrap /mnt base linux linux-firmware
7. **Generate fstab**
   1. genfstab -U /mnt >> /mnt/etc/fstab
8. **Chroot in**
   1. arch-chroot /mnt
9. **Set region and city**
   1. ln -sf /usr/share/zoneinfo/America/New\_York /etc/localtime
10. **Set hw clock**
    1. hwclock --systohc
11. **Set locale info**
    1. **Install text editor**
       1. pacman -S nano
       2. nano /etc/locale.gen
          1. Uncomment en\_US.UTF-8
       3. locale-gen to generate locale stuff
12. **Set hostname**
    1. nano /etc/hostname
       1. Enter the host name
13. **Configure hosts**
    1. nano /etc/hosts
       1. Enter this info:
          1. 127.0.0.1 localhost
          2. ::1 localhost
          3. 127.0.1.1 yourHostName.localdomain yourHostName
14. **Set user info**
    1. **Set root password**
       1. passwd
    2. **Add user**
       1. useradd -m userName
    3. **Set user password**
       1. passwd userName
    4. **Give user access to certain groups**
       1. usermod -aG wheel,audio,video,optical,storage userName
15. **Get sudo**
    1. pacman -S sudo
16. **Edit sudoers file**
    1. EDITOR=nano visudo
    2. Uncomment wheel all = (all) nopasswd
17. **Get other needed packages**
    1. pacman -S efibootmgr dosfstools os-prober mtools
18. **Mount EFI partition**
    1. mkdir /boot/EFI
    2. Mount /dev/EFIpart /boot/EFI
19. **Install grub**
    1. pacman -S grub
    2. grub-install --target=x86\_64-efi --bootloader-id=grub\_uefi --recheck
    3. grub-mkconfig -o /boot/grub/grub.cfg
20. **Install networking manager**
    1. pacman -S networkmanager
    2. systemctl enable NetworkManager
21. **Unmount**
    1. exit
    2. umount -l /mnt
22. **Install kde plasma**
    1. sudo pacman -Syu
    2. sudo pacman -S plasma
    3. sudo pacman -S sddm
    4. sudo systemctl disable gdm
    5. sudo systemctl enable sddm
    6. reboot
23. **Install nvidia drivers**
    1. pacman -S nvidia