

Featuring: bspwm, zsh and neovim light version - for printing

1 - Set the keyboard layout

List all available layouts:

ls /usr/share/kbd/keymaps/**/*.map.gz

Select a layout:

loadkeys de-latin1

2 - Connecting to internet:

Start the services:

systemctl status dhcpcd
systemctl start dhcpcd

Check connection:

ping www.google.com

If you're using wi-fi, start wifi-menu after starting the dhcpcd service.

3 - Update the system clock:

timedatectl set-ntp true

You can set it to localtime or UTC later.

4 - Partition the disks; I use fdisk:

fdisk /dev/sdX

Where 'X' is the disk you want to partition

5 - Format the new partitions:

mkfs.ext4 /dev/sdXn

Where 'X' is the disk you want to partition Where 'n' is the number of the partition on that specific disk;

e.g: /dev/sda1 /dev/sdd1

/dev/sdc5

6 - If you created a swap partition, initialize it now:

- # mkswap /dev/sdaX
- # swapon /dev/sdaX

7 - Mount the filesystem:

mount /dev/sdXn /mnt

Create mount points for any other partitions you created in step 5:

For example:

- # mkdir /mnt/boot
- # mount /dev/sdXn /mnt/boot
- # mkdir /mnt/home
- # mount /dev/sdXn /mnt/home

 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right)$ genfstab will later detect mounted filesystems and the swap.

8 - Select the mirrors and sort them so that the closest mirror is also the closes to your location geographically:

vim /etc/pacman.d/mirrorlist

9 - Install the base packages:

pacstrap /mnt base base-devel linux linuxfirmware

NOTE: Before running pacstrap, you must have mounted the partitions in step 7, otherwise, it'll not work.

Specially the /boot partition, if you created one.

10 - Generate the fstab:

genfstab -U /mnt >> /mnt/etc/fstab

Then check it to see if it's alright.

11 - chroot into the new system:

arch-chroot /mnt

12 - Set the timezone:

ln -sf /usr/share/zoneinfo/Region/City
/etc/localtime

Run hwclock(8) to generate /etc/adjtime:

hwclock --systohc

----- NOTE -----

The hardware clock can be queried and set with the timedatectl command.

You can see the current hardware clock time standard of the Arch system using:

timedatectl | grep local

To revert to the hardware clock being

in UTC, type:

timedatectl set-local-rtc 0

These generate /etc/adjtime automatically and update the RTC accordingly; no further configuration is required.

----- END NOTE -----

13 - Generate the locales:

Create the /etc/locale.conf file, and set the \$LANG variable accordingly:

Add to the file:

LANG=en_US.UTF-8

Uncomment en_US.UTF-8 UTF-8 and other needed locales in /etc/locale.gen, and generate them with:

locale-gen



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14 - Make the keyboard layout persistent

in /etc/vconsole.conf:

Add to the file:

KEYMAP=<your layout>

15 - Network configuration:

Create the hostname file (/etc/hostname):

Add to the file:

<your hostname>

Add matching entries to /etc/hosts:

127.0.0.1

localhost

localhost

127.0.1.1

<vour

<your hostname> hostname.localdomain

If the system has a permanent IP address, it should be used instead of 127.0.1.1.

Complete the network configuration for the newly installed environment,

that includes installing your preferred network management software.

16 - Set the root password:

passwd

17 - Create the users and set their passwords:

useradd -m -g users -G wheel -s /bin/bash <your username>

passwd <your username>

18 - Download and install grub, os-prober and ntfs-3g:

NOTF:

os-prober and ntfs-3g are only needed if you have another system you want to dual-boot.

ntfs-3g is used to detect Windows file system, and then grub will add them automatically

at the boot list when you run grub-mkconfig in

os-prober is used both to detect Windows and another Linux systems.

pacman -S grub os-prober ntfs-3g

grub-install /dev/sda

19 - Configure mkinitcpio:

mkinitcpio -p linux

Where 'linux' above should be replaced with whatever kernel you're using.

20 - Install dhcpcd (or dhclient), networkmanager and nmcli (or whatever you're using) and enable the service:

pacman -S dhcpcd networkmanager nmcli

systemctl enable dhcpcd

systemctl enable networkmanager

21 - Configure grub:

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

This will generate grub.cfg in /boot/grub/grub.cfg and add to it the entries to boot into other systems. And add them to the list.

22 - Exit chroot:

exit

23 - Umount all partitions and reboot the system:

umount -a # reboot

24 - Log-in as root with the password you set before, in step 16.

The username is 'root'.

THIS IS STEP DOESN'T MAKE ANY DIFFERENCE AT ALL, AS YOU HAVE ALREADY SET THE LAYOUT IN VCONSOLE.CONF

ABOVE SO YOU CAN SKIP IT

25 - Set the keyboard layout:

loadkeys br-abnt2

mkdir

/etc/X11/xorg.conf.d

nano

/etc/X11/xorg.conf.d/10-evdev.conf

The file should look

like this:

Section

InputClass

Identifier evdev "keyboard-hall"

MatchIsKeyboard "on"

MatchDevicePath "/dev/input/event"

"evdev

XkbLayout "br"

Option Option 0

Driver

XkbVariant "abnt2"

EndSection

25 - Enable sudo in /etc/sudoers:

Search for:

"root ALL=(ALL) ALL" (without the

auotes)

And insert:

<your username> ALL=(ALL) ALL below that line.

It should look like this:

root ALL=(ALL) ALL user1234 ALL=(ALL) ALL [...]

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26 - Test and enable internet connection:
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# ping -c3 www.google.com
# systemctl start dhcpcd
# systemctl start dhcpcd
```

Should work if you're on cable.

Check wi-fi, if NetworkManager`s service is not running, then start it:

> # systemctl status NetworkManager # systemctl start NetworkManager

Identify your network:

nmcli dev wifi

Connect:

nmcli device wifi connect <SSID> password <PSW>

27 - Create basic folder structure:

mkdir /home/zsucrilhos/_my-disks Optional, i use to symlink my other HDDs mounted on /mnt

mkdir /home/zsucrilhos/_my-scripts

Optional, i use for my scripts
mkdir /home/zsucrilhos/_my-sources Optional, i use for organization

> # mkdir /home/zsucrilhos/Desktop # mkdir /home/zsucrilhos/Documents # mkdir /home/zsucrilhos/Downloads

mkdir /home/zsucrilhos/Music # mkdir /home/zsucrilhos/Pictures # mkdir /home/zsucrilhos/Screenshots

mkdir /home/zsucrilhos/Videos

mkdir /home/zsucrilhos/RemovableMedia -Optional, i use to mount Removable Media such as pendrives

mkdir /home/zsucrilhos/WindowsDesktop -Optional, i use to mount Windows Desktop

28 - Install the packes you'll use:

- Window Manager / Desktop Environment
- Text editor
- Music Player
- etc

29 - Exit root and log-in as your user:

---N0TE----From here on now it is mostly personal preference. This is what i like to use. -----END NOTE-----

30 - Install yay:

\$ git clone https://aur.archlinux.org/yay.git \$ cd yay \$ makepkg -si

WARNING: DO NOT run makepkg as root as it might damage your system!

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31 - Get the my dotfiles.
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\$ cd /home/Downloads/_cloned-repos \$ git clone https://github.com/zsucrilhos/dotfiles \$ rsync -a dotfiles /home/zsucrilhos/

32 - Set the default shell, in my case, ZSH:

For root user (run as root): # chsh -s \$(which zsh)

For normal user: \$ chsh -s \$(which zsh)

Install oh-my-zsh:

\$ sh -c "\$(wget https://raw.githubusercontent.com/robbyrussell/oh-myzsh/master/tools/install.sh -0 -)'

And the plugins:

\$ git clone https://github.com/supercrabtree/k

\$ZSH_CUSTOM/plugins/k alias-tips:

\$ cd \${ZSH_CUSTOM1:-\$ZSH/custom}/plugins \$ git clone

https://github.com/djui/alias-tips.git

zsh-autosuggestions:

\$ git clone https://github.com/zsh-users/zsh-autosuggestions \${ZSH_CUSTOM:-~/.oh-my-zsh/custom}/plugins/zshautosuggestions

zsh-autocompletions: \$ git clone https://github.com/zsh-users/zsh-completions \${ZSH_CUSTOM:=~/.oh-my-zsh/custom}/plugins/zshcompletions

33 - Install bspwm (Javyre's fork):

\$ git clone https://aur.archlinux.org/bspwmgit.git

Change the source varible in the PKGBUILD to use Javyre's fork

Compile and install the package with: \$ makepkg -si

34 - Install vim-plug: \$ curl -fLo \ ~/.local/share/nvim/site/autoload/plug.vim \ --create-dirs \ https://raw.githubusercontent.com/junegunn/vimplug/master/plug.vim

35 - Install polybar:

\$ yay -S polybar-git

36 - Creating symlinks/shortcuts to other storage:

\$ ln -s /run/meuia/2300. -\$ ln -s /home/zsucrilhos/_myln -s /run/media/zsucrilhos RemovableMedia

disks/249g/Users/<username>/Desktop WindowsDesktop



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37 - Tailor fstab to mount my others disks.

38 - Restore backed-up files.

39 - Reboot.

Done, it should work now.