

NixOS Installation Cheat Sheet

<https://www.ml4w.com>

<https://gitlab.com/stephan-raabe/dotfiles/nixos>

Preparation

```
# Change to root user
sudo -i

# Load keyboard layout (if needed)
loadkeys de-latin1

# Check internet connection
ping www.archlinux.org

# Show available hard discs
lsblk

# Start with the partitions
parted /dev/vda -- mklabel gpt
parted /dev/vda -- mkpart primary 512MB -8GB
parted /dev/vda -- mkpart primary linux-swap -8GB 100%
parted /dev/vda -- mkpart ESP fat32 1MB 512MB
parted /dev/vda -- set 3 esp on

# Format the partitions
mkfs.ext4 -L nixos /dev/vda1
mkswap -L swap /dev/vda2
swapon /dev/vda2
mkfs.fat -F 32 -n boot /dev/vda3      # (for UEFI systems only)
mount /dev/disk/by-label/nixos /mnt
mkdir -p /mnt/boot                    # (for UEFI systems only)
mount /dev/disk/by-label/boot /mnt/boot # (for UEFI systems only)
```

Base Installation

```
# Generate nixos configuration into the new system
nixos-generate-config --root /mnt

# Open and edit the configuration file
nano /mnt/etc/nixos/configuration.nix
# Add vim if needed
# Save with CTRL-o
# Exit with CTRL-x

# Start the installation
nixos-install

# Reboot the system
reboot

# Login as root user (username root + password from the installation)

# Load keyboard layout (if needed)
loadkeys de-latin1

# Add system user
useradd -c 'Firstname Lastname' -m yourusername
passwd yourusername

# Open configuration file
vim /etc/nixos/configuration.nix

# Setup your user
users.users.yourusername = {
  isNormalUser = true;
```

```
home = "/home/yourusername";
description = "Firstname Lastname";
extraGroups= [ "wheel" ];
};
```

```
# Save the file and reboot
reboot
```

```
# Login with your user
```

Install Qtile

```
# Open the configuration file
sudo vim /etc/nixos/configuration.nix
```

```
# Add additional packages for Qtile
environment.systemPackages = with pkgs; [
  vim
  wget
  qtile
  alacritty
  chromium
  git
  picom
  rofi
  nitrogen
  xfce.mousepad
];
```

```
programs.thunar.enable = true;
```

```
# Enable xserver and load qtile
# Configure keymap in X11
```

```
services.xserver.layout = "de";
services.xserver.enable = true;
services.xserver.windowManager.qtile.enable = true;
```

```
# Rebuild the configuration
nixos-rebuild switch
```

```
# shutdown
sudo shutdown -h now
```

```
# Enable 3D in your Virtual Machine
# Restart the VM
# Login to qtile with lightdm display manager
```