

# My Ubuntu bash Setup and Ricing

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Here is my configuration for the **Linux UBUNTU** terminal.

📁 Take it as a **backup** and easy way to transition from one PC or VM to another.

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## What does **ricing** mean?

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In the context of terminal configuration, **ricing** refers to the practice of customizing and beautifying the appearance and functionality of the terminal and other elements of the desktop environment.

The term originally comes from the custom car culture, where **rice** was used to describe modifying cars with flashy but often unnecessary features.

In the tech world, ricing has been adopted to describe the process of making a system look aesthetically pleasing and unique.

## Installing utilities

❌ Do not execute the commands below as a script



Some may expect user input.



The installation might end with an error, so take them **individually** and analyze the result.

Task	apt	apt-get	snap	dpkg
<b>Install Package Manager</b>	Pre-installed	Pre-installed	sudo apt install snapd	Pre-installed
<b>Update Package Manager</b>	sudo apt update	sudo apt-get update	sudo snap refresh	sudo apt update
<b>Update All Packages</b>	sudo apt upgrade	sudo apt-get upgrade	sudo snap refresh	sudo apt upgrade
<b>Install a Package</b>	sudo apt install <package>	sudo apt-get install <package>	sudo snap install <package>	sudo dpkg -i <package>.deb
<b>List All Packages</b>	apt list -- installed	apt-get list -- installed	snap list	dpkg --list.
<b>Get Version of a Package</b>	apt show <package>	apt-cache policy <package>	snap info <package>	dpkg -s <package>
<b>Delete a Package</b>	sudo apt remove <package>	sudo apt-get remove <package>	sudo snap remove <package>	sudo dpkg -r <package>
Task	cargo	pip/pip3		npm
<b>Install Package Manager</b>	sudo apt install cargo or curl --proto '=https' --tlsv1.2 - sSf https://sh.rustup.rs \  sh	sudo apt install python-pip (for pip), sudo apt install python3-pip (for pip3)		sudo apt install npm
<b>Update Package Manager</b>	cargo install-update -a	Not applicable (managed by Python installer)		npm install -g npm@latest
<b>Update All Packages</b>	cargo install-update -a	pip list --outdated + pip install --upgrade <package>		npm update -g
<b>Install a Package</b>	cargo install <package>	pip install <package> (pip for Python 2), pip3 install <package> (pip for Python 3)		npm install <package>

Task	cargo	pip/pip3	npm
List All Packages	cargo install --list	pip list or pip3 list	npm list -g --depth=0
Get Version of a Package	cargo search <package> or cargo --version	pip show <package> or pip3 show <package>	npm list <package> -g
Delete a Package	cargo uninstall <package>	pip uninstall <package> or pip3 uninstall <package>	npm uninstall -g <package>

apt packages installation

```
sudo apt update
sudo apt install snapd

sudo apt install cargo

sudo apt install nano
sudo apt install xfce4-terminal
sudo apt install google-chrome-stable

# installing `rg` command
sudo apt install ripgrep # has `cargo` alternative

sudo apt install locate
sudo apt install fd-find

sudo apt install fzf # has `cargo` alternative

sudo apt install htop
sudo apt install bpytop
sudo apt install exa # has `cargo` alternative
sudo apt install neofetch # has `snapd` alternative
sudo apt install fd-find

sudo apt install colortest
sudo apt install cmatrix
sudo apt install sl # Steam Locomotive animation
```

snap packages installation

Installing snap utility:

```
sudo apt update
sudo apt install snapd
sudo snap refresh                                # updating all `snap` packages
```

### snap packages:

```
sudo snap install code --classic                # VS Code IDE
sudo snap install intellij-idea-ultimate --classic # IDE for Java, Scala
sudo snap install rustrover --classic           # IDE for Rust
sudo snap install clion --classic               # IDE for C/C++

sudo snap install onefetch                      # has `apt` alternative
sudo snap install bottom

sudo snap install helix --classic
sudo snap install zellij --classic             # has `cargo` alternative
sudo snap install spt                          # has `cargo` alternative
(spotify-tui)

sudo snap install discord
sudo snapp install spotify

sudo snap install docker
```

### Updating all snap packages:

```
sudo snap refresh
```

### Listing all snap packages:

```
snap list
```

## cargo packages installation

---

### Installing cargo utility:

```
# installing `cargo`
curl --proto '=https' --tlsv1.2 -sSf https://sh.rustup.rs | sh
source $HOME/.cargo/env                # place it in ~/.bashrc
```

or

```
sudo apt install cargo
```

### cargo packages:

```
# installing `spt` command
cargo install spotify-tui           # has `sanp` alternative (spt)

cargo install hurl                   # has `snap` alternative
cargo install rusty-rain
cargo install lsd
cargo install exa                    # has `apt` alternative
cargo install bat
cargo install tokei

# installing `rg` command
cargo install ripgrep               # has `apt` alternative
```

### Listing all **carg** packages:

```
cargo install --list
```


### npm packages installation

---

```
sudo npm install -g birthday
# option (manual): birthday --help
# adding new birthday: birthday -n coco gauff -d 13/03/2004
# displaying the table of birthdays: birthday
```

## Configuration File (~/.bashrc)

In order for the following changes to be persistent over time (restarting the terminal) the modifications are made in a configuration file, saved locally, on the disk.

 In my case, ~/.bashrc.

Each time a **bash** terminal is opened, all these instructions are executed, and the **aliases** will be accessible in every such terminal session.

Despite the ~/.bashrc, I have grouped the code in **multiple configuration files**:

1. ~/.variables.sh
2. ~/.aliases.sh

### 3. ~/.functions.sh

In these file, the **PS1** environment variable and some suggestive **aliases** are set.

```
touch ~/.variables.sh
touch ~/.aliases.sh
touch ~/.functions.sh
```

```
$ nano -l functions.sh
```

```
# ~/.functions.sh

# colored manual page
function man() {
    LESS_TERMCAP_mb=$'\e[1;34m'  \
    LESS_TERMCAP_md=$'\e[1;32m'  \
    LESS_TERMCAP_so=$'\e[1;33m'  \
    LESS_TERMCAP_us=$'\e[1;4;31m' \
    LESS_TERMCAP_me=$'\e[0m'      \
    LESS_TERMCAP_se=$'\e[0m'      \
    LESS_TERMCAP_ue=$'\e[0m'      \
    command man "$@"
}

# for PS1 prompt variable
# get current branch in git repo
function parse_git_branch() {
    BRANCH=$(git branch 2> /dev/null | sed -e '/^[^*]/d' -e 's/* \
(.*)/\1/')
    if [ ! "${BRANCH}" == "" ]; then
        STAT=$(parse_git_dirty)
        if [ "${BRANCH}" == "master" ]; then
            echo -e "[\e[32mgit: master${STAT}\e[0m]"
        elif [ "${BRANCH}" == "main" ]; then
            echo -e "[\e[32mgit: main${STAT}\e[0m]"
        else
            echo "[git: ${BRANCH}${STAT}]"
        fi
    else
        echo ""
    fi
}

# for PS1 prompt variable
```

```

# get current status of git repo
function parse_git_dirty {
    status=`git status 2>&1 | tee`
    dirty=`echo -n "${status}" 2> /dev/null | grep "modified:" &>
/dev/null; echo "$?"`
    untracked=`echo -n "${status}" 2> /dev/null | grep "Untracked files" &>
/dev/null; echo "$?"`
    ahead=`echo -n "${status}" 2> /dev/null | grep "Your branch is ahead
of" &> /dev/null; echo "$?"`
    newfile=`echo -n "${status}" 2> /dev/null | grep "new file:" &>
/dev/null; echo "$?"`
    renamed=`echo -n "${status}" 2> /dev/null | grep "renamed:" &>
/dev/null; echo "$?"`
    deleted=`echo -n "${status}" 2> /dev/null | grep "deleted:" &>
/dev/null; echo "$?"`
    bits=''
    if [ "${renamed}" == "0" ]; then
        bits=">${bits}"
    fi
    if [ "${ahead}" == "0" ]; then
        bits="*${bits}"
    fi
    if [ "${newfile}" == "0" ]; then
        bits="+${bits}"
    fi
    if [ "${untracked}" == "0" ]; then
        bits="?${bits}"
    fi
    if [ "${deleted}" == "0" ]; then
        bits="x${bits}"
    fi
    if [ "${dirty}" == "0" ]; then
        bits="!${bits}"
    fi
    if [ ! "${bits}" == "" ]; then
        echo " ${bits}"
    else
        echo ""
    fi
}

function git_rename_last_commit() {
    nr_args=$#

    if [[ $# -ne 1 ]] ; then
        echo "ERR: expects a single argument, the updated message for last
commit"
        # `return` instead of `exit` to avoid exiting the shell session
        when sourced in a script or terminal
        return 1
    fi
}

```

```
msg=$1
git commit --amend -m $msg
git push -f origin
}

function find_replace_in_file() {
    nr_args=$#

    if [[ $nr_args -ne 3 ]] ; then
        echo "ERR: Invalid number of arguments"
        echo "Expect the OLDTEXT, the NEWTEXT and the path to the file"
        return 1
    fi

    old=$1
    new=$2
    file=$3
    sed -i 's/$old/$new/g' $file
}

function find_replace_text_to_stdout() {
    nr_args=$#

    if [[ $nr_args -lt 2 || $nr_args -gt 3 ]] ; then
        echo "ERR: Invalid number of arguments"
        echo "Expect the OLDTEXT, the NEWTEXT, and optionally the path to
the file"
        return 1
    fi

    old=$1
    new=$2

    if [[ $nr_args -eq 3 ]] ; then
        file=$3
        sed "s/$old/$new/g" "$file"
    else
        # works with pipes, example: `cat in.txt | sed old new`
        sed "s/$old/$new/g"
    fi
}
```

```
$ nano -l ~/.variables.sh
```



```
# ~/.variables.sh

export GITHUB_TOKEN='my token'          # personal, sensitive info

# daca nu iti place cum arata terminalul, comenteaza linia de mai jos
# export PS1='\[\e[1;39m\](\[\e[0;0m\] \[\e[1;34m\]\u\[\e[0;0m\]\
[\e[1;39m\]@\[\e[0m\]\[\e[1;34m\]\h\[\e[0m\]\[\e[1;39m\] )\[\e[0m\] \
[\e[1;39m\]: [ \[\e[1;96m\]\w\[\e[0m\] \[\e[1;39m\]\[\e[0m\] \
[\e[1;39m\]$\[\e[0m\]\n\[\e[1;96m\]$\[\e[0m\] '

# without GIT REPO
# export PS1='\[\e[1;39m\](\[\e[0;0m\] \[\e[1;34m\]\u\[\e[0;0m\]\
[\e[1;39m\]@\[\e[0m\]\[\e[1;34m\]\h\[\e[0m\]\[\e[1;39m\] )\[\e[0m\] \
[\e[1;39m\]: [ \[\e[1;96m\]\w\[\e[0m\] \[\e[1;39m\]\[\e[0m\] \[\e[1;39m\]\
[\e[0m\] \[\e[1;39m\]$\[\e[0m\] $(printf "%.0s." {1..10})\[\e[0m\] $(date
"+%T") \n\[\e[1;96m\]$\[\e[0m\] '

# info about GIT REPO
export PS1='\[\e[1;39m\](\[\e[0;0m\] \[\e[1;34m\]\u\[\e[0;0m\]\
[\e[1;39m\]@\[\e[0m\]\[\e[1;34m\]\h\[\e[0m\]\[\e[1;39m\] )\[\e[0m\] \
[\e[1;39m\]: [ \[\e[1;96m\]\w\[\e[0m\] \[\e[1;39m\]\[\e[0m\] \
[\e[1;39m\]$(parse_git_branch)\[\e[0m\] \[\e[1;39m\]$\[\e[0m\] $(printf
 "%.0s." {1..10})\[\e[0m\] $(date "+%T") \n\[\e[1;96m\]$\[\e[0m\] '
```

```
$ nano -l aliases.sh
```

```
# ~/.aliases

alias github_token="echo $GITHUB_TOKEN"
alias nano='nano --linenumbers --mouse --tabsize=4'

alias chrome='google-chrome &> /dev/null &'
alias youtube='google-chrome https://www.youtube.com/ &> /dev/null &'
# opens YouTube in web browser (`google-chrome` can be replaced with
`open`)
alias chatgpt='google-chrome https://chatgpt.com/ &> /dev/null &'
# opens ChatGpt in web browser (`google-chrome` can be replaced with
`open`)

alias periodic-table='npx periodic-table-cli'
alias world-map='telnet mapscii.me'
alias ls-one-line='ls -1'
alias ls-recent-files='ls -altrh'
alias cmd-help='compgen -c | fzf | xargs man'
alias ascii_colors='colortest-16b'
alias hacking-terminal='docker run --rm -it bcbcarl/hollywood' #
```

```

`CTRL-C` and `exit` to stop
alias hollywood='docker run --rm -it bcbcarl/hollywood'      # `CTRL-C`
and `exit` to stop
alias sl='sl -e'      # enables `CTRL C` (SIGINT signal)

alias git_cheat_sheet='google-chrome https://ndpsoftware.com/git-
cheatsheet.html#loc=index && /dev/null &'  # open Git Cheat Sheet in web
browser (`google-chrome` can be replaced with `open`)

alias git_reset_last_commit="git reset --hard \$(git log | grep 'commit'
awk 'NR==1 {print $2}')"

alias git_delete_last_commit="git reset --soft HEAD~1 && git push -f
origin"

# opens IDEs in current directory
alias vscode='code .'
alias open-rustrover='rustrover . && /dev/null &'
alias open-intellij='intellij-idea-ultimate . && /dev/null &'
alias open-clion='clion . && /dev/null &'

alias lsc=exa      # colored ls cmd
alias ip='ip -c'   # colored ip cmd

alias fzf_print_file='file=$(fzf) && echo "Absolute path: $(realpath
$file)" && cat "$file"'

alias fzf_cmd_helper='cmd=$(compgen -c | fzf) && man $cmd 2> /dev/null ||
$cmd --help 2> /dev/null || type $cmd 2> /dev/null || echo "unkwon $cmd"'

alias fzf_history='cmd=$(history | sort -r | fzf | awk '\''{$1=""; print
substr($0,2)}'\'' ) && echo "$cmd" && eval "$cmd"'

# List of favourite `oh-my-posh` themes
# Make sure to install them, before making aliases
fav_posh_themes=(
    'atomic'      # one of my favourites
    'blue-owl'    # one of my favourites
    'blueish'     # one of my favourites
    'clean-detailed' # one of my favourites
    'kali'        # one of my favourites
    'powerlevel10k_modern' # one of my favourites
    'powerlevel10k_rainbow' # one of my favourites
    'quick-term'  # one of my favourites
)

for theme in "${fav_posh_themes[@]}"; do

```

```
alias "prompt-theme-$theme"="eval \"\$(oh-my-posh init bash --config  
~/.poshthemes/$theme.omp.json)\";"  
done
```

Copy and paste the following code at the end of the configuration file:

```
nano ~/.bashrc
```

```
# at the end of `~/.bashrc`:

# the order matters
source ~/.functions.sh
source ~/.variables.sh
source ~/.aliases.sh

# my favourite `oh-my-posh` theme
eval "$(oh-my-posh init bash --config ~/.poshthemes/blue-owl.omp.json)"

# displaying the logo of Arch Linux
# neofetch --ascii_distro arch

# the below command will display a logo of Ubuntu Linux
# neofetch --ascii_distro ubuntu --ascii_colors 4 7 --colors 6 7 7 6 7 7

# Kali Linux
# neofetch --ascii_distro kali --colors 6 7 7 6 7

neofetch --ascii_distro ubuntu --ascii_colors 4 7 --colors 6 7 7 6 7 7
```

```
$ source ~/.bashrc
$ reset
```

## ⚙️ Basic Terminal Customizations

⚙️: Teminal -> Three Horizontal Bars -> Preferences -> Unnamed -> Colors -> Background -> #0D0324

⚙️: Terminal -> Three Horizontal Bars -> Preferences -> Unnamed -> Text -> Cursor shape -> I-Beam

⚙️: Terminal -> Three Horizontal Bars -> Preferences -> Unnamed -> Text -> Cursor blinking -> Enable

## Nerd Fonts

🌐 Fonts: <https://www.nerdfonts.com/font-downloads>

🌐 Also see: <https://www.nerdfonts.com/>

```
$ cd ~/Downloads/  
$ mkdir nerd-fonts-helper-dir  
  
$ touch nerd_font_downloader.sh  
$ chmod +x nerd_font_downloader.sh  
$ nano -l nerd_font_downloader.sh      # text editor
```

```
#!/bin/bash  
  
# download_nerd_font.sh  
  
nr_args=$#  
  
if [[ $nr_args -ne 1 ]]; then  
    echo "Err: the script expects only a single argument: the URL of the  
font"  
    echo "See fonts at: https://www.nerdfonts.com/font-downloads"  
    exit 1  
fi  
  
URL=$1  
  
wget $URL -O nerd-fonts.zip  
unzip nerd-fonts.zip -d nerd-fonts  
mkdir -p ~/.local/share/fonts  
mv nerd-fonts/* ~/.local/share/fonts/  
rm -rf nerd-fonts nerd-fonts.zip  
fc-cache -fv
```

```
$ # it might not work (be aware of the versions of the fonts)  
$ ./nerd_font_downloader.sh https://github.com/ryanoasis/nerd-
```

```
fonts/releases/download/v3.2.1/InconsolataGo.zip
```

📦 Script to install a single nerd font, being given an URL: [scripts/download\\_nerd\\_font.sh](#)

📦 Script to install all single nerd fonts: [scripts/install\\_all\\_nerd\\_fonts.sh](#)

## My favourite Nerd Fonts:

- 0xProto Nerd Font
- 3270 Nerd Font
- CommitMono Nerd Font
- JetBrainsMono Nerd Font
- M+ Nerd Font
- RobotoMono Nerd Font
- Ubuntu Nerd Font
- UbuntuMono Nerd Font
- UbuntuSans Nerd Font
- VictorMono Nerd Font

## Setting Nerd Fonts

---

1. In **Ubuntu** terminal: ⚙️: Terminal -> Three Horizontal Bars -> Preferences -> Text -> Check the box for **Custom font** and search for a **Nerd font**
2. In **VS Code** terminal: ⚙️: Open **VS Code** -> **CTRL** , -> Search for **terminal integrated font** -> type a **Nerd font** (some might not work well)

## Configurable Terminal Prompt (**oh my posh**)

---

🌐 **oh my posh** official website: <https://ohmyposh.dev/>

```
$ curl -s https://ohmyposh.dev/install.sh | sudo bash -s  
  
$ mkdir -p ~/.poshthemes
```

🌐 **oh my posh** themes: <https://ohmyposh.dev/docs/themes>

All these themes work only in **Nerd Fonts**

You have to set **terminal's font** for each **IDE** you use.

Some fonts might not work well in **IDEs**.

📦 Installing all **oh my posh** themes: [scripts/install\\_all\\_prompt\\_themes.sh](#)

## My favourite themes:

Setting `alias` for favourite color themes: [cripts/alias\\_fav\\_posh\\_themes.sh](#)

For persistence, place the code in `~/.bashrc` and use the following command: `source ~/.bashrc`

- [atomic](#)



```
# Installing the theme
wget https://raw.githubusercontent.com/JanDeDobbeleer/oh-my-posh/main/themes/atomic.omp.json -O ~/.poshthemes/atomic.omp.json

# Setting the prompt
eval "$(oh-my-posh init bash --config ~/.poshthemes/atomic.omp.json)"
```

- [blue-owl](#)



```
# Installing the theme
wget https://raw.githubusercontent.com/JanDeDobbeleer/oh-my-posh/main/themes/blue-owl.omp.json -O ~/.poshthemes/blue-owl.omp.json

# Setting the prompt
eval "$(oh-my-posh init bash --config ~/.poshthemes/blue-owl.omp.json)"
```

- [blueish](#)



```
# Installing the theme
wget https://raw.githubusercontent.com/JanDeDobbeleer/oh-my-posh/main/themes/blueish.omp.json -O ~/.poshthemes/blueish.omp.json

# Setting the prompt
eval "$(oh-my-posh init bash --config ~/.poshthemes/blueish.omp.json)"
```

- [clean-detailed](#)



```
# Installing the theme
wget https://raw.githubusercontent.com/JanDeDobbeleer/oh-my-posh/main/themes/clean-detailed.omp.json -O ~/.poshthemes/clean-detailed.omp.json

# Setting the prompt
```

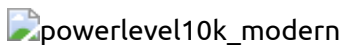
```
eval "$(oh-my-posh init bash --config ~/.poshthemes/clean-  
detailed.omp.json)"
```

- [kali](#)



```
# Installing the theme  
wget https://raw.githubusercontent.com/JanDeDobbeleer/oh-my-  
posh/main/themes/kali.omp.json -O ~/.poshthemes/kali.omp.json  
  
# Setting the prompt  
eval "$(oh-my-posh init bash --config ~/.poshthemes/kali.omp.json)"
```

- [powerlevel10k\\_modern](#)



```
# Installing the theme  
wget https://raw.githubusercontent.com/JanDeDobbeleer/oh-my-  
posh/main/themes/powerlevel10k_modern.omp.json -O  
~/.poshthemes/powerlevel10k_modern.omp.json  
  
# Setting the prompt  
eval "$(oh-my-posh init bash --config  
~/.poshthemes/powerlevel10k_modern.omp.json)"
```

- [powerlevel10k\\_rainbow](#)



```
# Installing the theme  
wget https://raw.githubusercontent.com/JanDeDobbeleer/oh-my-  
posh/main/themes/powerlevel10k_rainbow.omp.json -O  
~/.poshthemes/powerlevel10k_rainbow.omp.json  
  
eval "$(oh-my-posh init bash --config  
~/.poshthemes/powerlevel10k_rainbow.omp.json)"
```

- [quick-term](#)



```
# Installing the theme  
wget https://raw.githubusercontent.com/JanDeDobbeleer/oh-my-
```

```
posh/main/themes/quick-term.omp.json -O ~/.poshthemes/quick-term.omp.json

# Setting the prompt
eval "$(oh-my-posh init bash --config ~/.poshthemes/quick-term.omp.json)"
```

I find **quick-term** to be the most suitable for me.

So, the line `eval "$(oh-my-posh init bash --config ~/.poshthemes/quick-term.omp.json)"` will be included at the end of the configuration file `~/.bashrc`



## Xfce Terminal Emulator



### Instalilling a Terminal Emulator (Xfce)

For this task, we will use a **Terminal Emulator**, since the built-in console does not support background images.

Show applications (a square of 9 dots in right lower corner) -> search for **Ubuntu Software** -> start typing **Xfce Terminal** -> install **Terminal Emulator**.

Alternative **shell** command:

```
# Terminal Emulator that enables setting a background image
sudo apt install xfce4-terminal
```

**Xfce** command for creating a new **window/tab**:

- New **window**: `xfce4-terminal`
- New **tab**: `xfce4-terminal --tab` (in an existing **window**, otherwise it creates a **window** with two **tabs**)

```
xfce4-terminal &          # new window
xfce4-terminal --tab &    # new tab inside of window
```



### Basic setup for Xfce Terminal



**Xfce Terminal** -> **Edit** -> **Preferences...** -> **Cursor shape** -> **I-Beam**



**Xfce Terminal** -> **Edit** -> **Preferences...** -> **Cursor shape** -> check ☐ **Cursor blinks box**



**Xfce Terminal** -> **Edit** -> **Preferences...** -> **Cursor shape** -> check ☐ **Automatically copy selection to clipboard box**



⚙️ **Xfce Terminal** -> **Edit** -> **Preferences...** -> **Cursor shape** -> check ☐ **Show unsafe paste dialog box**

## Setting the background image in **Xfce Terminal**

---

Open **Xfce Terminal** -> **Bar** -> **Edit** -> **Preferences...** -> **Appearance** -> **Background** -> select **Background image** and provide a path to the **File:** field.

Also, in order for the prompt to work, set a **Nerd Font**

## helix

### Installation:

```
sudo apt update
sudo apt install snapd
sudo snap refresh
sudo snap install helix --classic
```

### My favourite **dark** color themes:

- [adwaita-dark](#)
- [amberwood](#)
- [autumn\\_night](#)
- [ayu\\_dark](#)
- [ayu\\_evolve](#)
- [ayu\\_mirage](#)
- [catppuccin\\_mocha](#)
- [curzon](#)
- [github\\_dark\\_colorblind](#)
- [github\\_dark\\_high\\_contrast](#)
- [github\\_dark\\_tritanopia](#)
- [github\\_dark](#)
- [jetbrains\\_dark](#)
- [material\\_deep\\_ocean](#)
- [papercolor-dark](#)
- [penumbra+](#)
- [poimandres](#)
- [serika-dark](#)
- [tokyonight\\_moon](#)
- [yellowed](#)

### My favourite **light** color themes:

- [rose\\_pine\\_dawn](#)
- [serika-light](#)
- [tokyonight\\_day](#)

- [zed\\_onelight](#)



## DNS (Domain Name Server)

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### What is DNS

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DNS is an Internet protocol that maps **URLs** (Uniform Resource Locators) or domain names to **IP** addresses. This process is essential because while humans find it easier to remember and use domain names, like [www.example.com](#), computers and network devices use **IP** addresses (like [192.0.2.1](#) to identify each other on the internet).

Useful links:

- Known **DNS** providers: <https://adguard-dns.io/kb/general/dns-providers/>
- **DNS** filtering: <https://adguard-dns.io/kb/general/dns-filtering/>

I use the following **DNS** IPs: [94.140.14.15](#) and [94.140.15.16](#)



### Setting DNS

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Using the **GUI** of **Ubuntu**: <https://phoenixnap.com/kb/ubuntu-dns-nameservers>

I don't recommend the above link, but it's just in case.

Let's be professional and use the terminal 🤖.

```
$ cat /etc/resolv.conf
# This is /run/systemd/resolve/stub-resolv.conf managed by man:systemd-
resolved(8).
# Do not edit.
#
# This file might be symlinked as /etc/resolv.conf. If you're looking at
# /etc/resolv.conf and seeing this text, you have followed the symlink.
#
# This is a dynamic resolv.conf file for connecting local clients to the
# internal DNS stub resolver of systemd-resolved. This file lists all
# configured search domains.
#
# Run "resolvectl status" to see details about the uplink DNS servers
# currently in use.
#
# Third party programs should typically not access this file directly, but
# only
# through the symlink at /etc/resolv.conf. To manage man:resolv.conf(5) in
# a
# different way, replace this symlink by a static file or a different
# symlink.
#
```

```
# See man:systemd-resolved.service(8) for details about the supported modes
of
# operation for /etc/resolv.conf.

nameserver 127.0.0.53
options edns0 trust-ad
search .
```

👉 Notice that `/etc/resolv.conf` is a **symbolic link** to another configuration file, **in this case**, `/run/systemd/resolve/stub-resolv.conf`

🔒 Also notice the comment `# Do not edit`

Since `/etc/resolv.conf` is managed by `systemd-resolved` and is **symlinked** to `/run/systemd/resolve/stub-resolv.conf`, the **DNS** configuration must be updated using the `systemd-resolved` **configuration file**.

```
$ sudo nano -l /etc/systemd/resolved.conf
```

**Uncomment** and **set** the **DNS** and **FallbackDNS** lines with desired DNS servers. For example:

```
[Resolve]
DNS=94.140.14.15 94.140.15.16
FallbackDNS=8.8.8.8 8.8.4.4 1.1.1.1 1.0.0.1
```

```
$ sudo systemctl restart systemd-resolved
$ resolvectl status
Global
    Protocols: -LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
    resolv.conf mode: stub
    DNS Servers: 94.140.14.15 94.140.15.16
    Fallback DNS Servers: 8.8.8.8 8.8.4.4 1.1.1.1 1.0.0.1
```

An alternative to `resolvectl status` could be `resolvectl dns`:

```
$ resolvectl dns
Global: 94.140.14.15 94.140.15.16
Link 2 (enp1s0): 94.140.14.15 94.140.15.16
Link 3 (wlp2s0): 8.8.8.8 1.1.1.1
Link 4 (docker0):
```

The **FallbackDNS** entries are optional and will be used if the primary DNS servers are unreachable.

## ! ⚠ Troubleshooting DNS configuration

If there are errors at setting **global DNS** configure the **interfaces**, otherwise skip this part.

If it appears that the **DNS** setting for specific network interfaces (**enp1s0** and **wlp2s0**) might not be using the global **DNS** server, here is the solution:

### 1. Step 1: Clear Link-Specific DNS Settings

```
$ sudo resolvectl dns enp1s0 94.140.14.15 94.140.15.16
$ sudo resolvectl dns wlp2s0 94.140.14.15 94.140.15.16
```

### 2. Step 2: Verify the DNS Configuration

```
$ resolvectl status
```

### 3. Step 3: Update Network Manager Configuration (if applicable)

If you're using NetworkManager, it might override systemd-resolved settings. You can update the DNS configuration in NetworkManager.

```
$ sudo nano /etc/NetworkManager/NetworkManager.conf
```

Add the following lines (if not already present):

```
[main]
dns=systemd-resolved
```

Restart NetworkManager:

```
$ sudo systemctl restart NetworkManager
```

### 4. Step 4: Ensure /etc/resolv.conf is Symlinked Correctly

```
sudo ln -sf /run/systemd/resolve/stub-resolv.conf /etc/resolv.conf
```


### 5. Step 5: Recheck the Status

```
$ resolvectl status
```



## Uninstalling Utilities

Deleting a command is as simple as installing it, the only difference in the one-liner is a word specified to the package manager.

 **remove** will take place of **install** argument.

```
rustup self uninstall          # uninstall cargo

sudo apt remove xfce4-terminal

sudo apt remove cmatrix
sudo snap remove code
sudo snap remove intellij-idea-ultimate
sudo snap remove rustrover
sudo snap remove clion

sudo apt remove nano
sudo snap remove helix
# cargo uninstall helix          # if installed with cargo

sudo snap remove zellij
# cargo uninstall zellij        # if installed with cargo

cargo uninstall ripgrep        # rg command

sudo apt remove fd-find

sudo snap remove onefetch
sudo apt-get remove neofetch

sudo snap remove discord
sudo snap remove spotify

sudo snap remove exa

cargo remove hurl
cargo uninstall bat
cargo uninstall lsd
cargo uninstall rusty-rain
cargo uninstall tokei

sudo npm uninstall -g birthday

# unsetting git info
git config --global --unset user.name
git config --global --unset user.email
```

