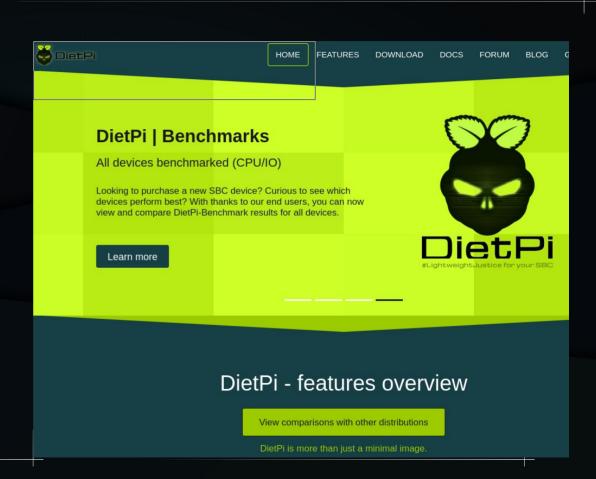


# Lightweight Distro

- Download
- Installation
- Features
- Example

### Download

- Go to Dietpi.com
- And select Downloads



### Download

 Select the Single Board Computer (SBC) you are utilizing.

View DietPi-Benchmark scores for all devices

username: root password: dietpi

[AII]

Raspberry Pi

Odroid

PINE64

Radxa

.

Allo

**ASUS** 

NanoPi

Orange Pi



Raspberry Pi 1/Zero (1) BCM2708 | 1 Core | ARMv6



Raspberry Pi 2 PCB v1.1 BCM2709 | 4 Cores | ARMv7



Raspberry Pi 2/3/4 BCM2710/2711 | 4 Cores | ARMv8



Raspberry Pi 5 (testing) BCM2712 | 4 Cores | ARMv8

### Download

# Select the type of download.

### Raspberry Pi 2/3/4

CPU: BCM2710/2711 900-1800 MHz | 4 Cores | ARMv8

1 GiB LPDDR2 - 8 GiB LPDDR4 RAM:

Download Image:

Download (SHA256) (Signature)

How to install / Details:

Amiberry image:

Download (SHA256) (Signature)

This image installs and boots into Amiberry automatically on first boot.

Allo GUI image:



Download (SHA256) (Signature)

This image has our Allo web GUI and audiophile software pre-installed.

### Bullseye images:

We provide images based on the older Debian Bullseye release as well, as not all software in our catalogue is compatible with Debian Bookworm yet. All info about this can be found here.

These images are compatible with all Raspberry Pi 3 and 4 models, as well as Raspberry Pi 2 PCB v1.2 and Zero 2.

The Raspberry Pi 2 comes in two versions, which is printed onto the PCB. PCB v1.1 has an ARMv7 chip, hence needs to use the ARMv7 image, PCB v1.2 can use this ARMv8 image, which we then generally recommend.

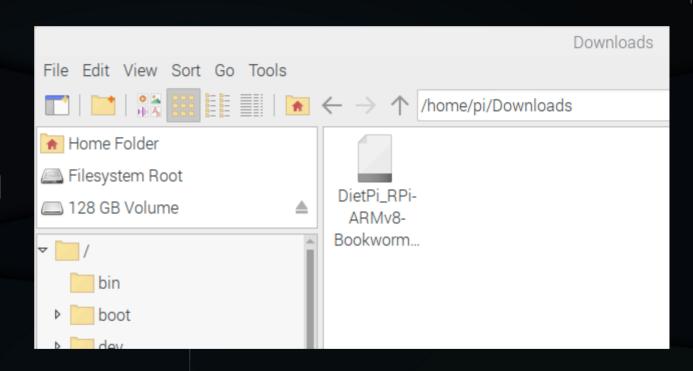




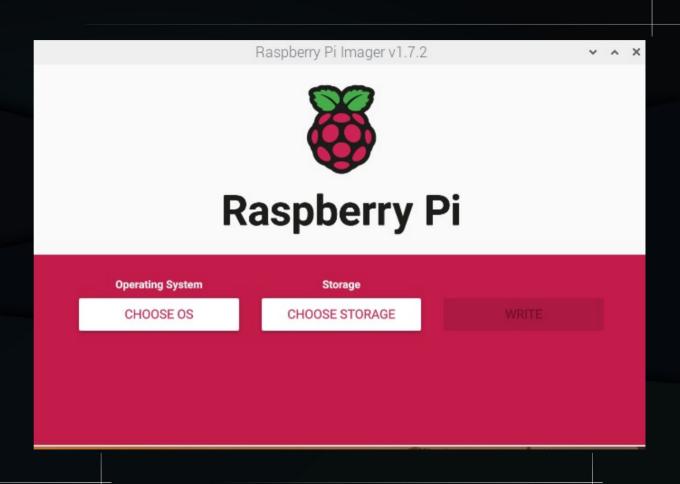
Verify your download is completed.

If you download the first option the file will be compress with .xz

In terminal use unxz filename To uncompress



Use the raspberry pi imager to burn the image into a new micro SD card



Make sure you select the correct drive because imager will not prevent you from overriding the current SD card with the running operating system.

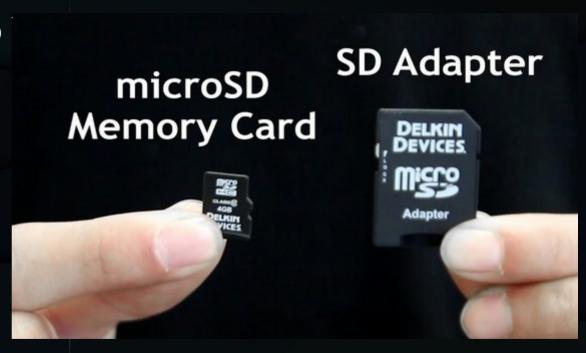
Just like the DD command.



Once the image is finished burning into the SD card.

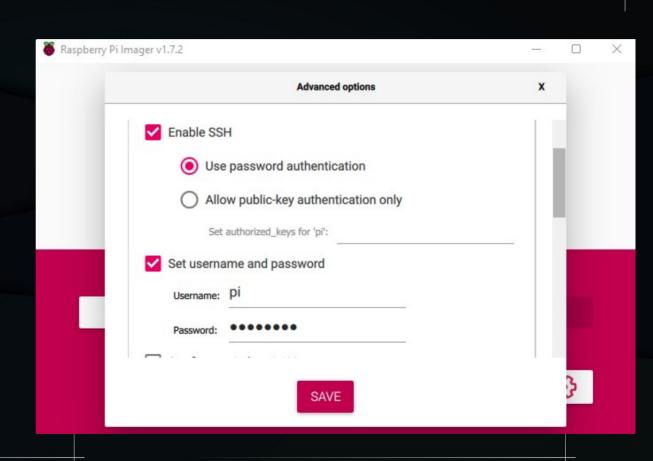
Remove the SD card and insert the MicroSD into the SBC you had selected.

Note: Dietpi can also be loaded into a regular harddrive for a 386 computer rig. To make a quick server.



Dietpi will ask for internet access to perform an "apt update" and "apt upgrade" automatically.

If you did not opted to activate SSH in the imager SD card options. You will have to plug the SBC to a monitor to see the scripting taking place. And activate features thru pi-config.



Once you have found the IP address of your SBC you can SSH as root into the Dietpi

ssh root@192.168.0.0 localhost

You can also just plug in a monitor and keyboard and proceed with the installation prompts

```
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
DietPi v9.4.2 : 1 APT updates available
  Device model: RPi 4 Model B (aarch64)
  CPU temp : 35 °C / 95 °F : Cool runnings
  LAN IP: 192.168.0.58 (eth0)
  MOTD: DietPi v9.4 has been released. Check out all changes:
         https://dietpi.com/docs/releases/v9 4/
DietPi Team
                 : https://github.com/MichaIng/DietPi#the-dietpi-project-team
Patreon Legends : Chris Gelatt, ADSB.im
Website
                 : https://dietpi.com/ | https://twitter.com/DietPi
                : https://dietpi.com/contribute.html
Contribute
Web Hosting by : https://myvirtualserver.com
apt upgrade
                : Run now to apply 1 available APT package upgrades
dietpi-launcher : All the DietPi programs in one place
dietpi-config: Feature rich configuration tool for your device
dietpi-software : Select optimised software for installation
htop
                 : Resource monitor
                : Shows CPU information and stats
cpu
root@DietPi:~# dietpi-software list |grep " =2"
```

You will be asked to participate in the data collection.

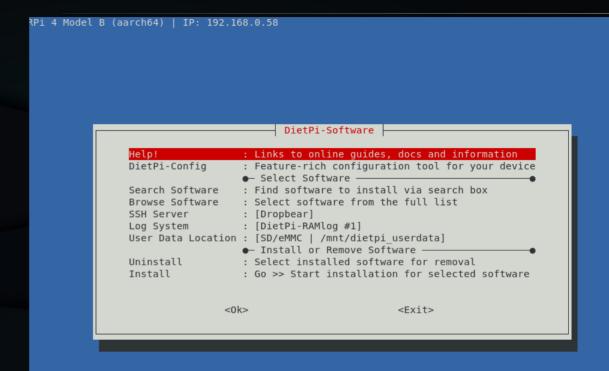
I opted not to!!!

Also you will be asked to change all the passwords for root and Dietpi default user.

```
RPi 4 Model B (aarch64) | IP: 192.168.0.58
                                           DietPi-Survev
 DietPi-Survey would like to collect anonymous usage statistics.
 This allows us to focus development based on popularity.
  - NO private data will be collected and NO ONE can identify you based on it.
  - The data is sent via secured SFTP connection, stored unreadable to the public upload user.
  - If you agree, your uploaded data will be updated after each DietPi-Update and DietPi-Software
 install.
  - Current survey statistics can be reviewed at: https://dietpi.com/survey/
 Would you like to join DietPi-Survey?
                               Show: Show me the upload file content
                                    : Opt IN and upload data
                                    : Opt OUT and purge uploaded data
                            <0k>
                                                                <Cancel>
```

Once done with all the basic installation you will come to this screen.

It can be called in terminal as: dietpi-software



### **Features**

There is an extensive list of software that can be automatically installed and halfway configured by the Dietpi OS (scripts)

Here is a small part of the list.

#### Desktops:

LXDE - Highly optimized lightweight desktop without the "bloatware".

- MATE - Popular Gnome 2 desktop.

- XFCE - Lightweight desktop.

GnuStep - Alternative/unique desktop.

Chromium - Optional: Web browser

#### Remote Desktop Access:

Tightync Server - Desktop for remote connection.

VNC4 Server - Desktop for remote connection.

NoMachine - Feature rich remote desktop connection

XRDP - Remote desktop server for Windows Remote Desktop Client.

RealVNC Server - Desktop for remote connection.

#### Media Systems:

Kodi - Media Centre / Player

YMPD - Lightweight web Interface audio player for MPD

myMPD - Lightweight web Interface audio player for MPD

O!MPD - Feature-rich web Interface audio player for MPD

CAVA - Optional: Console-based audio visualizer for MPD

Mopidy - Web Interface Music /Radio Player

AirSonic - Feature rich media streaming server with web interface.

SubSonic - Feature rich media streaming server with web interface.

SqueezeBox - Also known as Logitech Media Server.

SqueezeLite - Audio player for SqueezeBox.

Shairport Sync - AirPlay audio player with multiroom sync

ReadyMedia - (MiniDLNA) Media streaming server (DLNA, UPnP)

Ampache - Web interface media streaming server.

Emby - Web interface media streaming server.

Plex Media Server - Web interface media streaming server.

Tautulli - Monitoring and tracking tool for Plex Media Server.

Murmur - Mumble VoIP Server

Roon Bridge - Turns your device into a Roon capable audio player

Roon Server - Turns your device into a Roon capable audio player and Roon core

Roon Extension Manager - Manage extensions from within Roon

NAA Daemon - Signalyst Network Audio Adaptor (NAA).

IceCast - Shoutcast Streaming Server, including Darkice.

iRiver - Media Center

Koel - Web interface streaming server.

Gmrender - DLNA audio render.

Ubooquity - Free home server for your comics and ebooks library.

#### BitTorrent / Download Tools:

- Transmission - Lightweight BitTorrent server with web interface

- Deluge - Alternative BitTorrent server with web interface

qBitTorrent - Lightweight and fast (c++) BitTorrent server with web interface

· rTorrent - BitTorrent server with ruTorrent web interface

Aria2 - Download manager with web interface

SABnzbd - NZB download manager with web interface.

SiCKRAGE - Automatically download TV shows

- Sonarr - Automatically download TV shows

- Radarr - Automatically download Movies

#### Emulation & Gaming:

- OpenTyrian - Gaming

Cuberite - Fast Minecraft server with web interface

MineOS - Multiple Minecraft servers with web interface

Nukkit - Server for Minecraft Pocket Edition

AmiBerry - Amiga emulation system, further developed optimized builds of uae4arm-rpi

DXX-Rebirth - Descent 1 & 2 OpenGL port

Steam - Steam client

#### Camera / Surveillance:

- RPi Cam Control - RPi Camera / Web Interface Surveillance

- MotionEve - Camera / Web Interface Surveillance

#### Cloud / Backups:

- ownCloud - Your own personal cloud based backup/data storage system

Nextcloud - Your own personal cloud based backup/data storage system.

Pydio - Feature-rich backup and sync server with web interface.

UrBackup Server - Full backups for systems on your network

Gogs - GitHub style server, with web interface.

Gitea - GitHub style server, with web interface.

- Syncthing - Backup and sync server with web interface.

Tonido - Lightweight backup and sync server with web interface, and, cloud access.

- Minio - S3 compatible distributed object server

#### Social / Search:

- FreshRSS - A self-hosted RSS feed aggregator

- Forums - phpbb3

Wordpress - Website Blog and Publishing platform.

Image Gallery - Host and browse your images from a web interface.

- BaiKal - Lightweight CalDAV + CardDAV server.

OpenBazaar - Decentralized peer to peer market server using BitCoin.

YaCy - Decentralized open source search engine.

WiFi HotSpot - Turn your device into a wireless hotspot/access point.

- Tor HotSpot - Optional: Routes all WiFi HotSpot traffic through the Tor network.

- Home Assistant - Open-source home automation platform running on Python 3.

EmonPi - Lightweight Energy usage stats with EmonPi PCB.

Grasshopper - Web App to control Bticino MyHome

#### Hardware Projects:

- Google AIY - Voice kit "Ok, Google"!.

PiJuice - PiSupply UPS/battery power system.

RPi.GPIO - GPIO Interface library for RPi (python).

WiringPi - GPIO Interface library (c).

- WebIOPi - Web interface to control RPi GPIO.

Node-Red - Visual tool for wiring together hardware devices, APIs and online services.

Mosquitto - Message broker that implements MQTT protocol versions 3.1 and 3.1.1.

### Now we GO Live

Use the command

dietpi-software list | grep " =2"

To see a list of the reinstalled software in your SBC.

```
root@DietPi:~# dietpi-software list |grep " =2"
            Fail2Ban: prevents brute-force attacks with ip ban | | https://dietpi.com/docs/s
            LLMP: Lighttpd + MariaDB + PHP | +Lighttpd +MariaDB +PHP | https://dietpi.com/do
  82
  84
       =2 | Lighttpd: Extremely lightweight webserver | | https://dietpi.com/docs/software/w
  88
       =2 | MariaDB: Persistent cached file-per-table database server | | https://dietpi.com
  89
            PHP: Hypertext Preprocessor for dynamic web content | | https://dietpi.com/docs/
            Redis: Volatile in-memory non-SQL database server | | https://dietpi.com/docs/so
ID 91
ID 92
       =2 | Certbot: Obtain and renew Let's Encrypt SSL certs for HTTPS | | https://dietpi.c
        =2 | DietPi-RAMlog: Makes /var/log a RAM disk, preserves file structure on reboot |
ID 103
             Dropbear: Lightweight SSH server | | https://dietpi.com/docs/software/ssh/#drop
ID 104
             Nextcloud: File sync, sharing and collaboration platform | +MariaDB +PHP +Redis
root@DietPi:~#
```

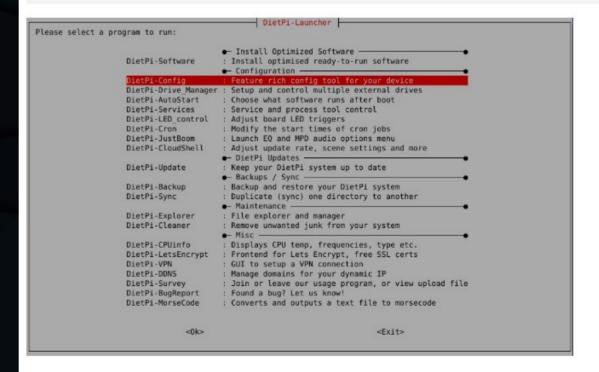
### Now we GO Live

We can use the dietpi-launcher to run a specific OS tools.

### DietPi-Launcher 9

It provides an easy access to all DietPi OS tools and can be accessed by running next command:

dietpi-launcher



### That is it Folks

This was based on a simple FSCJ presentation of "How to install nextcloud in a Raspberry Pi to act as a home cloud server.

In hind site I could have made it a Plex server.

