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# Fog app and Waydroid

## why waydroid

Since it is a tool that allows you to run Android applications directly on Linux without a classic emulator. It works as a container (LXC) in which the entire Android system runs, resulting in security features:

- Application isolation in a container (LXC)
- Uses Linux security mechanisms
- Smaller attack surface than a full virtual machine
- Open-source
- No Google services are required
- Android application sandbox remains intact
- Lower risk of malware persistence
- Fast Linux security updates
- Full use of Linux as the OS on which waydroid runs: mount on NFS, supporting applications

## Installation

### We tested

- Hw.: TRIGKEY Mini PC Green G4, Intel 12th Gen Alder-Lake N100
- OS Linux Fedora 44 / wayland
- web waydroid: <https://docs.waydro.id/usage/install-on-desktops>
- android images:  
[https://sourceforge.net/projects/waydroid/files/images/system/lineage/waydroid\\_x86\\_64/](https://sourceforge.net/projects/waydroid/files/images/system/lineage/waydroid_x86_64/)
- *Attention:* we do not have good experience with the latest \*-system.zip image - there is a problem with the implementation of Android SAF providers: when selecting and confirming a directory, the application loads the file in this directory, but does not open it. The problem is indicated in Fig. 3, selecting "SD card" where in the latest \*-system.zip, when selecting a directory (export of user messages, file vault directory), the marked item (directory) "Downloads" which is the SAF - SD-card provider is not offered and the directory below (WayDroid x86\_64 Device) is already the SAF - System-card provider, which has a different security implementation and so, for example, when selecting a file from the vault, it finds it, but does not allow it to be opened. In older \*-system.zip (as used below), the directories have the same SAF provider and so there is no problem with opening the file)

S úspechom používame: lineage-20.0-20250809-GAPPS-waydroid\_x86\_64-system.zip a lineage-20.0-20260428-MAINLINE-waydroid\_x86\_64-vendor.zip

- bash:

```
sudo mkdir -p /etc/waydroid-extra/images  
  
sudo unzip lineage-20.0-20250809-GAPPS-waydroid_x86_64-system.zip -d  
/etc/waydroid-extra/images  
  
sudo unzip lineage-20.0-20260428-MAINLINE-waydroid_x86_64-vendor.zip -d  
/etc/waydroid-extra/images
```

```
cat ./reinit.sh
```

```
#!/bin/bash  
sudo rm -r /var/lib/waydroid  
sudo rm -r /home/.waydroid  
sudo rm -r ~/waydroid  
sudo rm -r ~/.share/waydroid  
sudo rm -r ~/.local/share/waydroid  
#Initialize a new waydroid installation  
#waydroid first-launch
```

```
reinit.sh  
sudo waydroid init -f
```

```
mkdir /mnt/waydroid/Download
#chmod /mnt/waydroid/Download ?

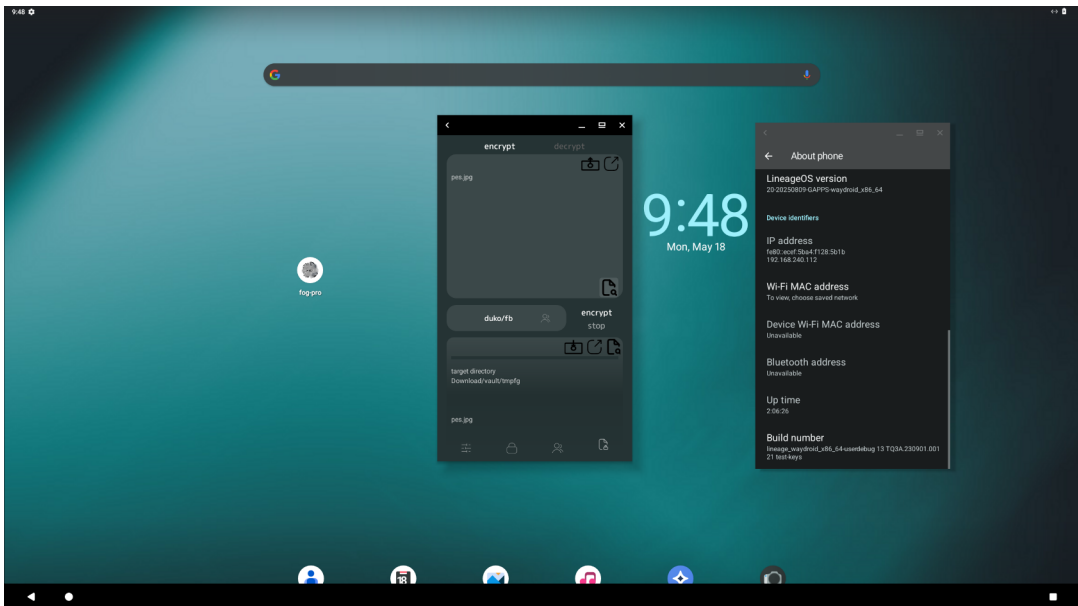
sudo dnf install bindfs
sudo bindfs --mirror=$(id -u) ~/.local/share/waydroid/data/media/0/Download
/mnt/waydroid/Download
```

or according to the documentation: <https://docs.waydro.id/faq/setting-up-a-shared-folder>

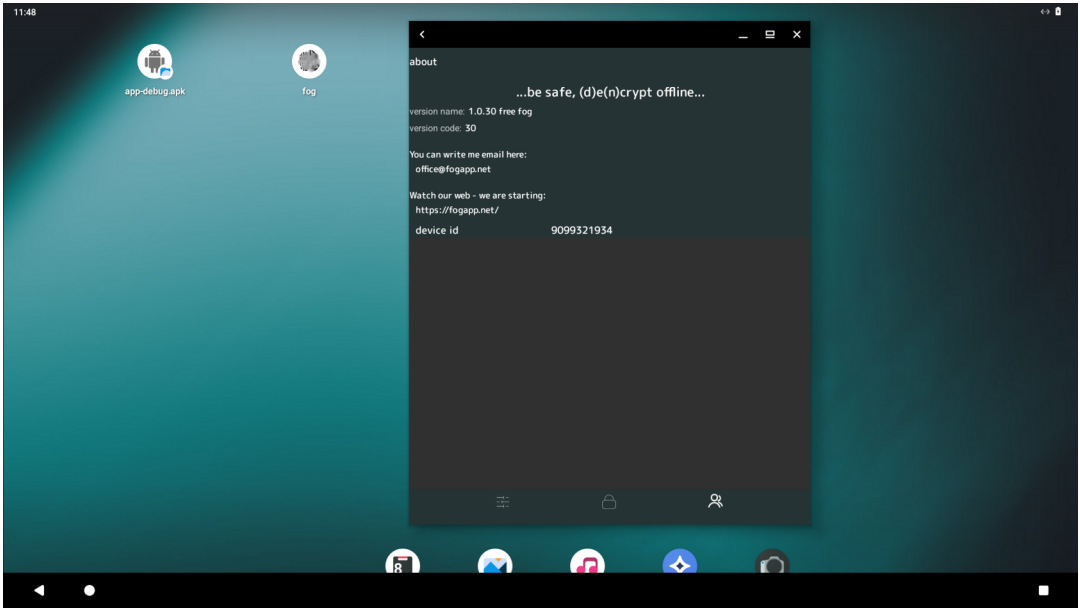
setting variables during waydroid runtime:

will split the windows and be in portrait

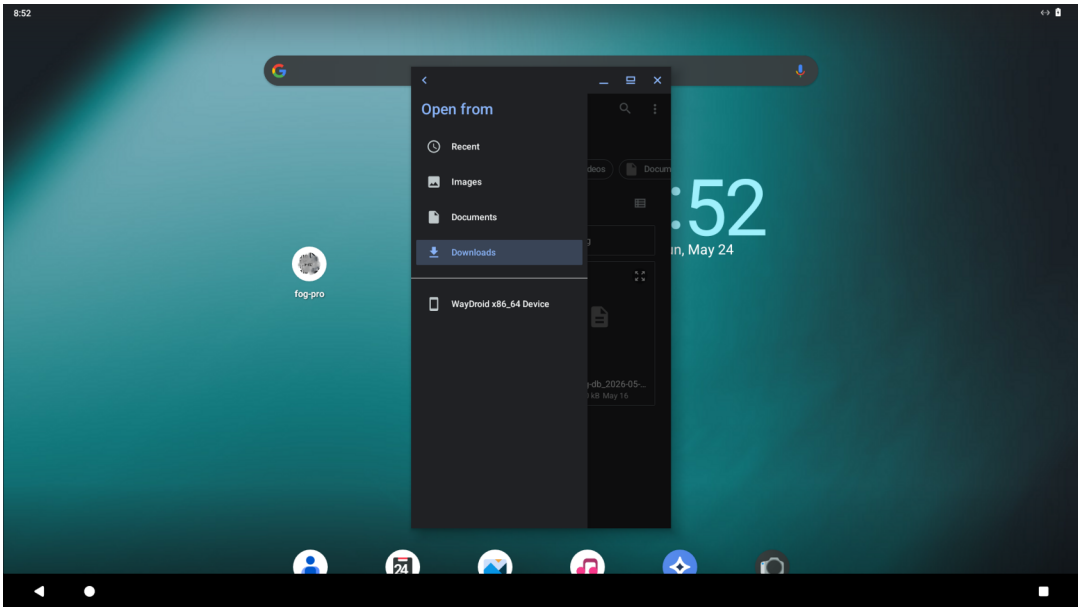
```
waydroid prop set persist.waydroid.multi_windows true
```



Obrázok 1: android system info about waydroid



Obrázok 2: about fog-app - device id



Obrázok 3: selecting "SD card"