

---

## Waydroid Extras Script

Script to add GApps and other stuff to Waydroid!

## Installation/Usage

### Interactive terminal interface

```
1 git clone https://github.com/casualsnek/waydroid_script
2 cd waydroid_script
3 python3 -m venv venv
4 venv/bin/pip install -r requirements.txt
5 sudo venv/bin/python3 main.py
```

```
? Select Android version(↑↓ Select Item)
> Android 11
  Android 13
  Exit
```

```
? Select Android version Android 11
? Please select an action
> Install
  Remove
  Hack
```

```
? Select Android version Android 11
? Please select an action Install
? Select apps ([↑↓]: Select Item. [Space]: toggle choice), [Enter]: Confirm
  ● gapps
  ○ microg
  ● libndk
  ○ libhoudini
  ● magisk
> ● smartdock
  ○ widevine
```

---

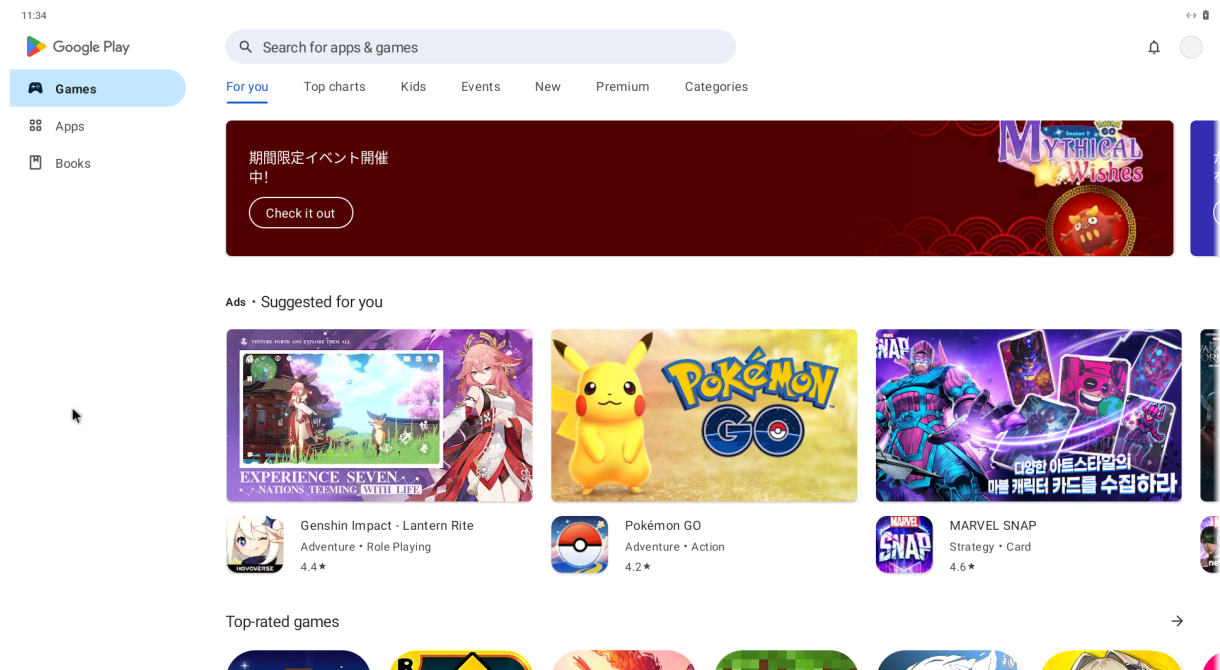
## Command Line

```
1 git clone https://github.com/casualsnek/waydroid_script
2 cd waydroid_script
3 python3 -m venv venv
4 venv/bin/pip install -r requirements.txt
5 # install something
6 sudo venv/bin/python3 main.py install {gapps, magisk, libndk,
    libhoudini, nodataperm, smartdock, microg, mitm}
7 # uninstall something
8 sudo venv/bin/python3 main.py uninstall {gapps, magisk, libndk,
    libhoudini, nodataperm, smartdock, microg}
9 # get Android device ID
10 sudo venv/bin/python3 main.py certified
11 # some hacks
12 sudo venv/bin/python3 main.py hack {nodataperm, hidestatusbar}
```

## Dependencies

“lzip” is required for this script to work, install it using your distribution’s package manager: ### Arch, Manjaro and EndeavourOS based distributions: `sudo pacman -S lzip` ### Debian and Ubuntu based distributions: `sudo apt install lzip` ### RHEL, Fedora and Rocky based distributions: `sudo dnf install lzip` ### openSUSE based distributions: `sudo zypper install lzip`

## Install OpenGapps



Open terminal and switch to the directory where “main.py” is located then run:

```
1 sudo venv/bin/python3 main.py install gapps
```

Then launch waydroid with:

```
1 waydroid show-full-ui
```

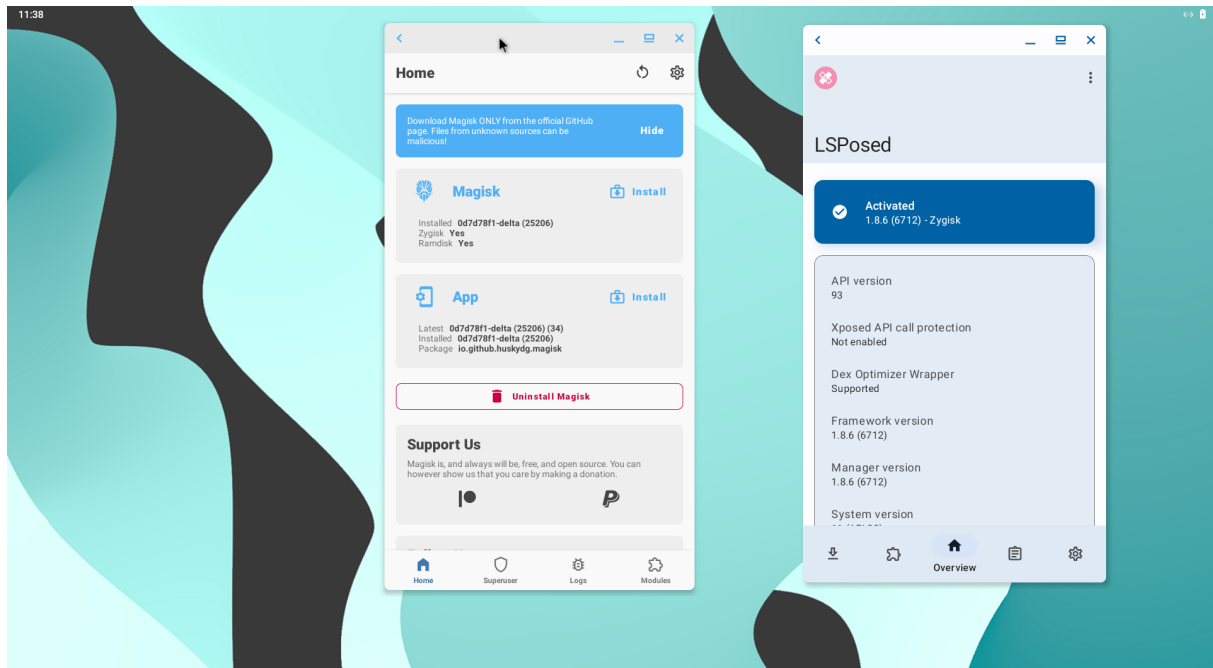
After waydroid has finished booting, open terminal and switch to directory where “main.py” is located then run:

```
1 sudo python3 main.py google
```

Copy the returned numeric ID, then open “<https://google.com/android/uncertified/?pli=1>”. Enter the ID and register it. Wait 10-20 minutes for device to get registered. Then clear Google Play Service’s cache and try logging in!

---

## Install Magisk



Open terminal and switch to directory where “main.py” is located then run:

```
1 sudo venv/bin/python3 main.py install magisk
```

Magisk will be installed on next boot!

Zygisk and modules like LSPosed should work now.

If you want to update Magisk, Please use [Direct Install into system partition](#) or run this script again.

This script only focuses on Magisk installation, if you need more management, please check <https://github.com/nitanmarcel/waydroid-magisk>

## Install libndk arm translation

libndk\_translation from guybrush firmware.

libndk seems to have better performance than libhoudini on AMD.

Open terminal and switch to directory where “main.py” is located then run:

```
1 sudo venv/bin/python3 main.py install libndk
```

---

## Install libhoudini arm translation

Intel's libhoudini for intel/AMD x86 CPU, pulled from Microsoft's WSA 11 image

houdini version: 11.0.1b\_y.38765.m

houdini64 version: 11.0.1b\_z.38765.m

Open terminal and switch to directory where "main.py" is located then run:

```
1 sudo venv/bin/python3 main.py install libhoudini
```

## Integrate Widevine DRM (L3)

The screenshot shows the 'DRM Info' application interface. It has a purple header bar with the time '11:41' and a back arrow icon. Below the header, there are two main sections: 'Waydroid WayDroid x86\_64 Device' and 'ClearKey CDM'. The 'Waydroid' section lists various system details like Brand, Hardware, Build, and SDK Level. The 'ClearKey CDM' section shows vendor information and HDCP levels. Below these, there is a 'Widevine CDM' section which also displays vendor, version, and HDCP information.

Waydroid WayDroid x86_64 Device	ClearKey CDM
<b>Brand</b> waydroid	<b>Vendor</b> Google
<b>Hardware</b> unknown	<b>Version</b> 1.2
<b>Build</b> lineage_waydroid_x86_64-userdebug 11 RQ3A.211001.001 11 test-keys	<b>Max HDCP Level Supported</b> No Digital Output
<b>Build Type</b> userdebug	<b>Current HDCP Level</b> None
<b>Build Fingerprint</b> waydroid/lineage_waydroid_x86_64/waydroid_x86_64:11/RQ3A.211001.001/11:userdebug/test-keys	
<b>SDK Level</b> 30	
<b>Release or Codename</b> 11	
<b>Supported ABI</b> x86_64, x86, arm64-v8a, armeabi-v7a, armeabi	
<b>Supported Hardware Decoder</b> audio/ac3, audio/dts, audio/ffmpeg, audio/flac, audio/mp4a-latm, audio/mpeg, audio/mpeg-L2, audio/vnd.rn-realaudio, audio/vorbis, audio/x-ape, audio/x-ms-wma, video/3gpp, video/divx, video/ffmpeg, video/mp4v-es, video/mpeg2, video/vc1, video/vnd.rn-realvideo, video/x-flv, video/x-ms-wmv, video/x-vnd.on2.vp8, video/x-vnd.on2.vp9	
<b>Supported Refresh Rate (Hz)</b> 143	

Widevine CDM
<b>Vendor</b> Google
<b>Version</b> 16.0.0
<b>Max HDCP Level Supported</b> None
<b>Current HDCP Level</b> None
<b>System ID</b> 8162
<b>Security Level</b> L3
<b>Resource Rating Tier</b> 1
<b>Max Number of Sessions</b> 15
<b>OEM Crypto API Version</b> 15

Open terminal and switch to directory where "main.py" is located then run:

```
1 sudo venv/bin/python3 main.py install widevine
```

---

## Install Smart Dock



Open terminal and switch to directory where “main.py” is located then run:

```
1 sudo venv/bin/python3 main.py install smartdock
```

---

## Install a self-signed CA certificate

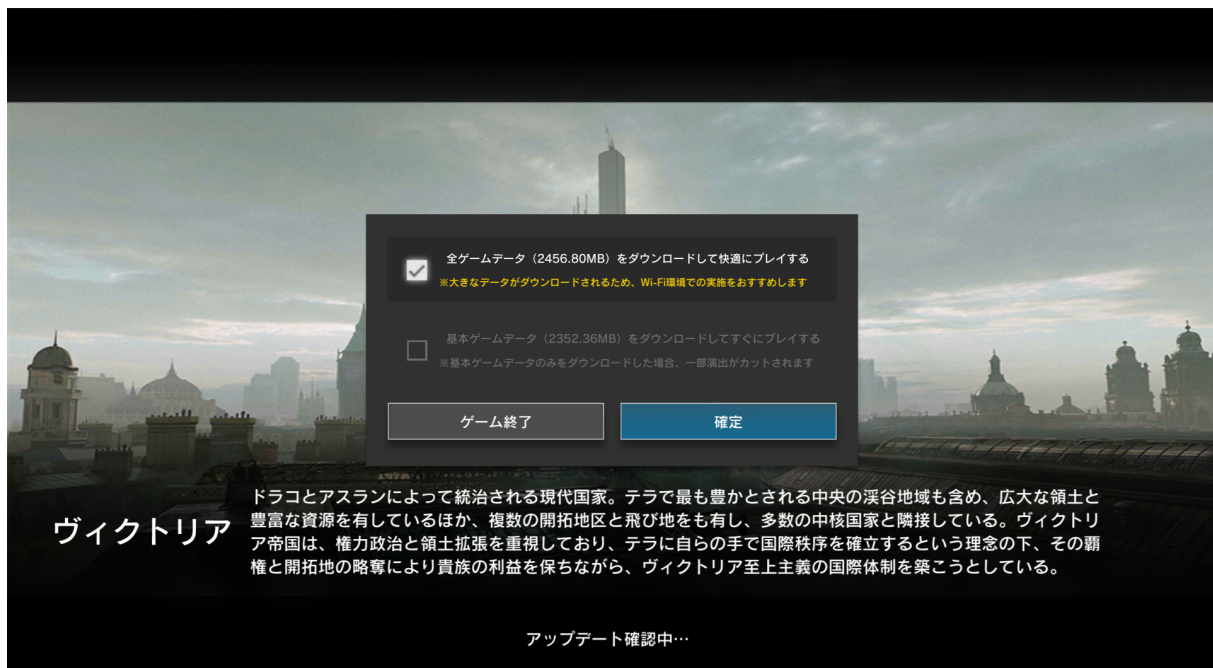
Open terminal and switch to directory where “main.py” is located then run:

```
1 sudo venv/bin/python3 main.py install mitm --ca-cert mycert.pem
```

## Granting full permission for apps data (HACK)

This is a temporary hack to combat against the apps permission issue on Android 11. Whenever an app is open it will always enable a property (persist.sys.nodataperm) to make it execute a script to grant the data full permissions (777). The **correct** way is to use `sdcardfs` or `esdfs`, both need to recompile the kernel or WayDroid image.

Arknights, PUNISHING: GRAY RAVEN and other games won't freeze on the black screen.



Open terminal and switch to directory where “main.py” is located then run:

```
1 sudo venv/bin/python3 main.py hack nodataperm
```

**WARNING:** Tested on `lineage-18.1-20230128-VANILLA-waydroid_x86_64.img`. This script will replace `/system/framework/service.jar`, which may prevent WayDroid from booting. If so, run `sudo venv/bin/python3 main.py uninstall nodataperm` to remove it.

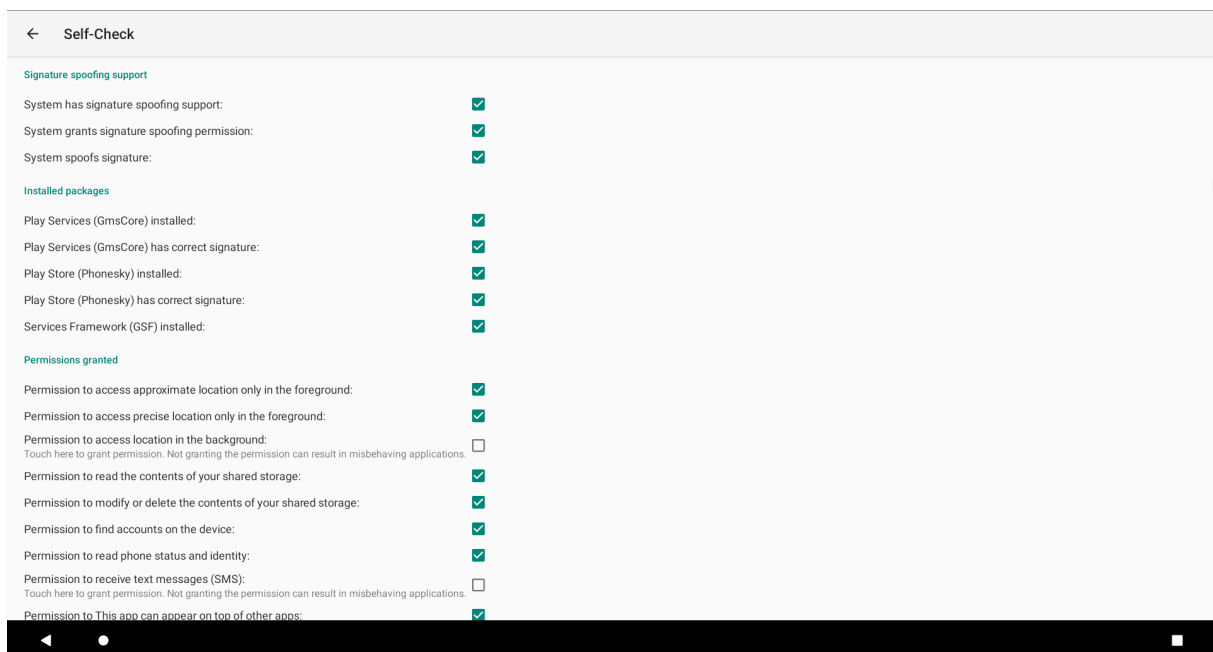
---

Or you can run the following commands directly in `sudo waydroid shell`. In this way, every time a new game is installed, you need to run it again, but it's much less risky.

```
1 chmod 777 -R /sdcard/Android
2 chmod 777 -R /data/media/0/Android
3 chmod 777 -R /sdcard/Android/data
4 chmod 777 -R /data/media/0/Android/obb
5 chmod 777 -R /mnt/*/*/*/Android/data
6 chmod 777 -R /mnt/*/*/*/Android/obb
```

- [https://github.com/supremegamers/device\\_generic\\_common/commit/2d47891376c96011b2ee3c1cce61cb48](https://github.com/supremegamers/device_generic_common/commit/2d47891376c96011b2ee3c1cce61cb48)
- [https://github.com/supremegamers/android\\_frameworks\\_base/commit/24a08bf800b2e461356a9d67d04572b](https://github.com/supremegamers/android_frameworks_base/commit/24a08bf800b2e461356a9d67d04572b)

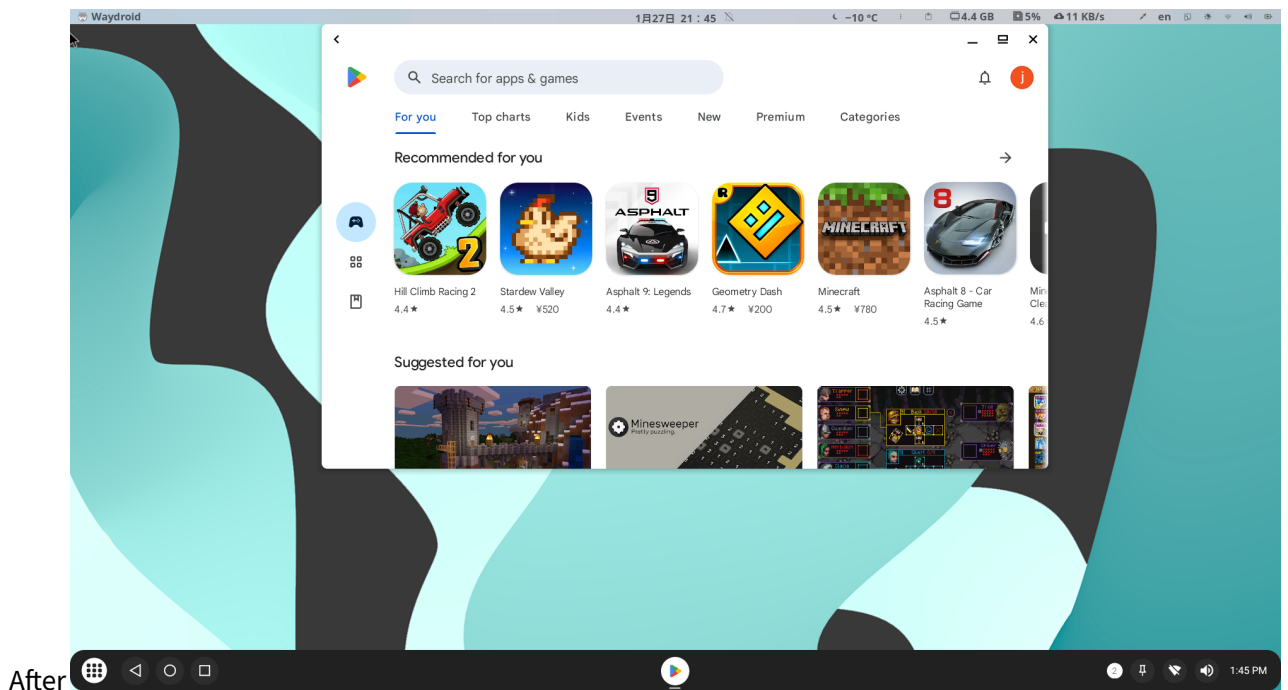
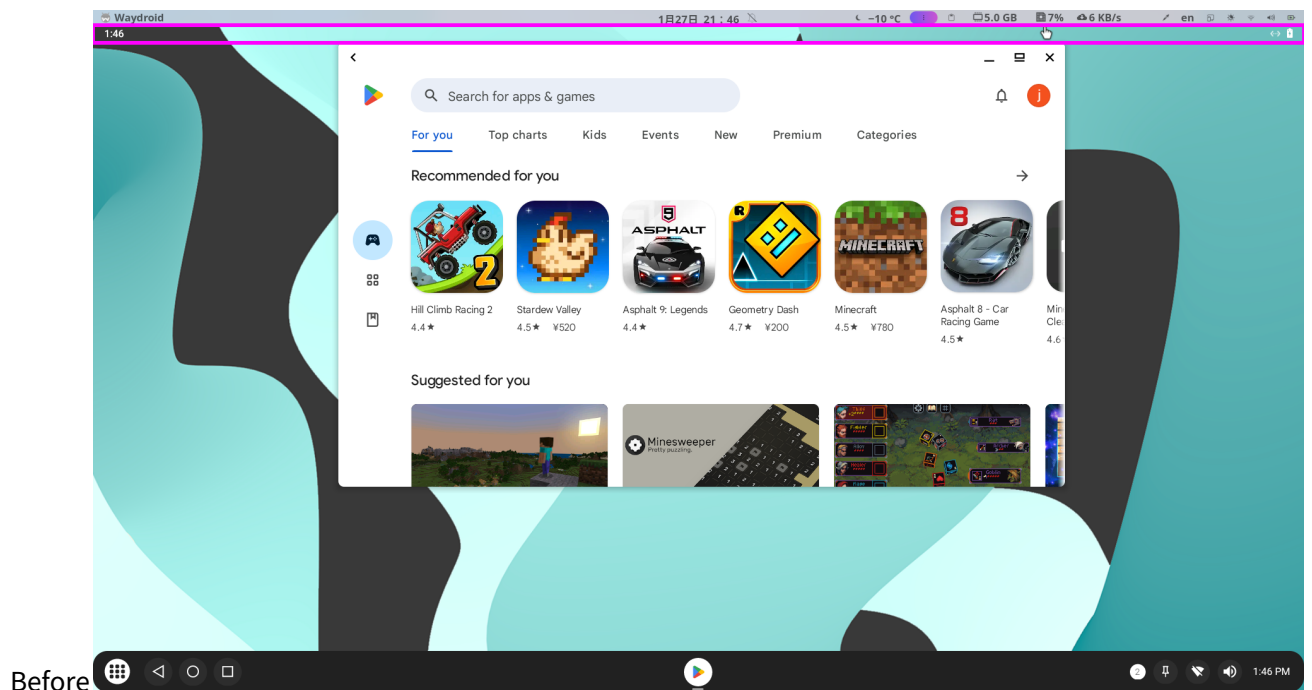
## Install microG, Aurora Store and Aurora Droid



```
1 sudo python main.py install microg
```



## Hide Status Bar



```
1 sudo venv/bin/python3 main.py hack hidestatusbar
```

---

## Get Android ID for device registration

You need to register your device with its ID before being able to use GApps, this will print out your Android ID which you can use for device registration required for Google apps: Open terminal and switch to directory where “main.py” is located then run:

```
1 sudo venv/bin/python3 main.py certified
```

Star this repository if you find this useful, if you encounter a problem create an issue on GitHub!

## Error handling

- Magisk installed: N/A

Check waydroid-magisk

## Credits

- WayDroid
- Magisk Delta
- microG Project
- Open GApps
- Smart Dock
- wd-scripts