

Release Note of Ubuntu 18.04 LTS (v3.0)

Summary

Release Date	2018-06-20
Release Type	New Image

File name : ubuntu-18.04-3.16-mate-odroid-c2-20180620.img.xz

Note: OS will reboot on the first boot for automatic rootfs resize

You must update Linux Kernel to 3.16.57-24 (Jul 2 2018) after first booting to fix the [OpenGL ES stability issue](#).

New updates

- Official US West Coast: http://odroid.in/ubuntu_18.04lts
- Official US East Coast: http://east.us.odroid.in/ubuntu_18.04lts (Thanks to David Beauchamp @ ArchLinuxARM)
- Official EU Germany: http://de.eu.odroid.in/ubuntu_18.04lts
- Official Korea Mirror: <http://dn.odroid.com/S905/Ubuntu>

Kernel Updates

- Updated to LTS Kernel 3.16 (Special thanks to [scpcom forum user](#)).
- Change history : [C2 kernel github](#)

Userspace Update

- Kodi to 17.6
- Ubuntu to 18.04
- [OpenGL ES2](#) enabled Qt5 library
- [OpenGL ES2](#) enabled SDL library
- Chromium Version 66 with [WebGL](#) support

The RootFS Auto-resize feature has changed!!!
Once everything is done after auto-resizing, the power will turn off automatically.
Please Wait a couple of minutes and plug/unplug the power cable when the blue LED is off.

Tips and Known issues

- The root file system will be resized in the first booting process. OS will reboot automatically to complete the resizing process. **This process must not be interrupted.**
- xorg.conf changed places to: **/usr/share/X11/xorg.conf.d/99-odroidc2.conf**
- To change **CPU governor** to “ondemand”, refer [this guide](#)
- MySQL/KVM needs an editing of boot.ini file to change the system timer source to ARMv8 Architecture from the Meson. But the ARMv8 timer affects the VPU/GPU system accuracy.
- Mali GPU access could be blocked by a recent Canonical's EGL package. In that case, you need to install our Mali driver manually.

```
sudo apt install mali-x11 --reinstall
```

- To enable CEC feature, install “libcec” package manually.

```
sudo apt install libcec
```

- To enable NFS feature in Kodi, install “libnfs” package manually.

```
sudo apt install libnfs11
```

- To enable Auto-login, edit /usr/share/lightdm/lightdm.conf.d/50-slick-greeter.conf file like this.

```
[Seat:*]
greeter-session=slick-greeter
autologin-user=odroid
```

- NTP time syncing takes long time (sometimes around 1~2 minutes)
- HDMI Screen Rotation: [Forum guide](#)

Access Credentials

Username	Password
root	odroid
odroid	odroid

How to update the kernel and system

```
sudo apt update
sudo apt upgrade
sudo apt dist-upgrade
sudo reboot
```

The default boot.ini in V3.0

- Available here: https://github.com/mdrjr/c2_bootini/blob/master/boot.ini

How to checkout

The current version only provide Linux kernel and U-boot source code. Here are the instructions to checkout the source code and build. For more detail information, please visit [U-boot](#) and [Kernel](#).

This guide is only for the NATIVE BUILD.

U-boot

```
$ git clone https://github.com/hardkernel/u-boot.git -b odroidc2-v2015.01
$ cd u-boot
$ make odroidc2_config
$ make
```

Linux Kernel

```
$ git clone --depth 1 https://github.com/hardkernel/linux -b odroidc2-
v3.16.y
$ cd linux
$ make odroidc2_defconfig
$ make -j5
$ sudo make modules_install
$ sudo cp arch/arm64/boot/Image /media/boot
$ sudo cp arch/arm64/boot/dts/meson64_odroidc2.dtb /media/boot
```

Run “**git checkout 3.16.57-20**” command to use the same kernel tag before “make odroidc2_defconfig”.

Kodi Tips

- [Enabling Adjust Display Refresh Rate](#)
- [Enabling HDMI passthrough](#)

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http://wiki.odroid.com/odroid-c2/os_images/ubuntu/v3.0

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