

ADB over TCP/IP (Ethernet port)

To debug an Android app on ODROID-XU4, you need to use the adb(**Android Debug Bridge**) via network because there is no USB OTG.

To debug a software via the adb, you should connect the board with an Ethernet or [WiFi](#) to network. After connecting the board, please follow the below steps.

Device console

Get device's IP.

eth0 → adb over Ethernet.

wlan0 → adb over Wi-Fi.

```
shell@odroidxu3:/ $ su
root@odroidxu3:/ # netcfg
lo          UP                127.0.0.1/8      0x00000049
00:00:000
eth0        UP                192.168.30.45/24 0x00001043
fa:e2:864
sit0        DOWN             0.0.0.0/        0x00000080
00:00:000
ip6tnl0     DOWN             0.0.0.0/        0x00000080
00:00:000
root@odroidxu3:/ #
```

Host console

Check TCP connection

```
[~]$ ping 192.168.30.45
PING 192.168.30.45 (192.168.30.45) 56(84) bytes of data.
64 bytes from 192.168.30.45: icmp_seq=1 ttl=64 time=1.56 ms
64 bytes from 192.168.30.45: icmp_seq=2 ttl=64 time=0.756 ms
64 bytes from 192.168.30.45: icmp_seq=3 ttl=64 time=0.718 ms
64 bytes from 192.168.30.45: icmp_seq=4 ttl=64 time=0.850 ms
^C
--- 192.168.30.45 ping statistics ---
4 packets transmitted, 4 received, % packet loss, time 3001ms
rtt min/avg/max/mdev = 0.718/0.971/1.561/0.344 ms
```

ADB connection

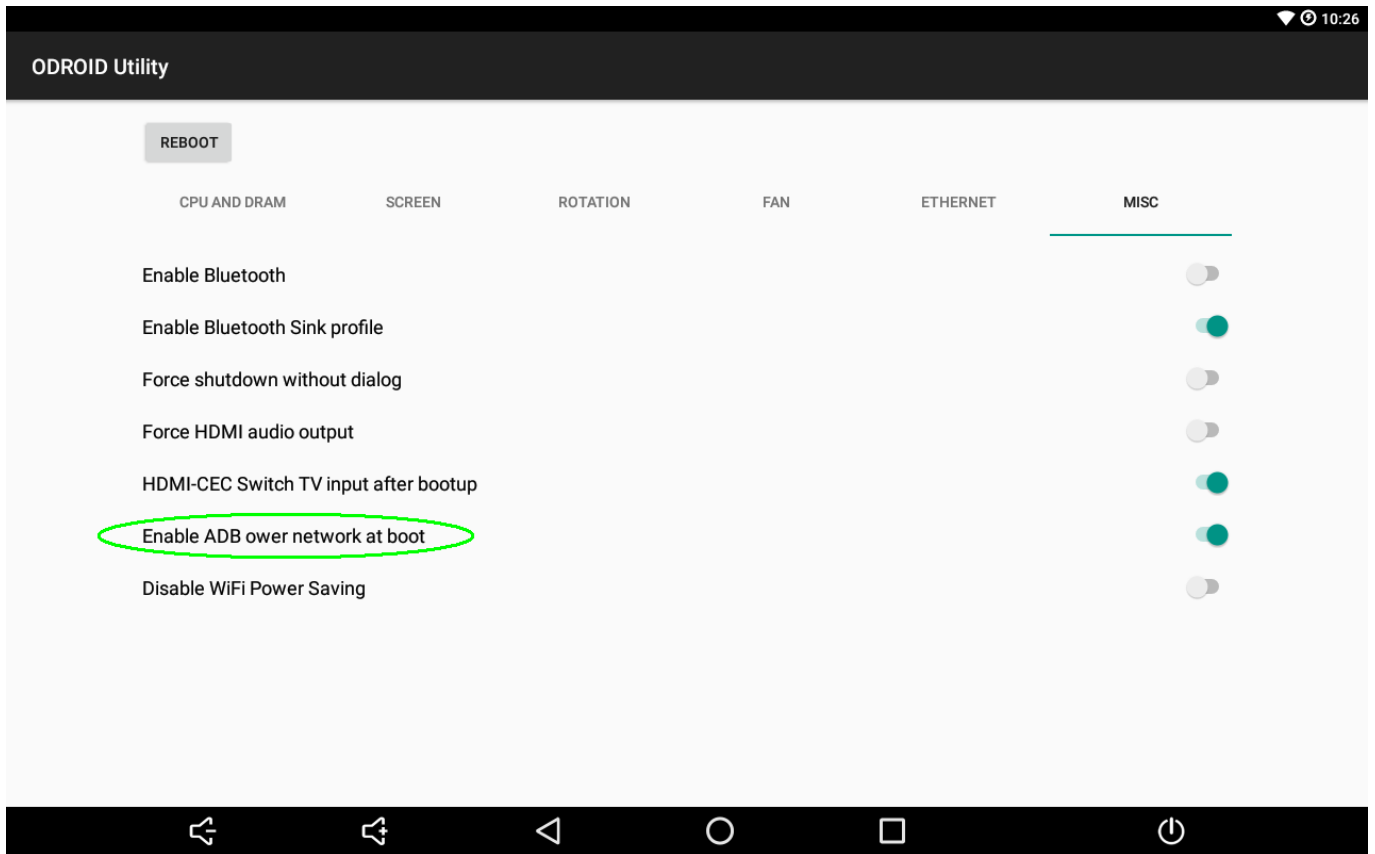
```
[~]$ adb connect 192.168.30.45
```

connected to 192.168.30.45:5555

```
[~]$ adb -s 192.168.30.45:5555 logcat
----- beginning of /dev/log/main
I/installd( 2785): installd firing up
I/DEBUG ( 2780): debugger: Jul  2 2015 14:27:22
I/Netd ( 2779): Netd 1.0 starting
W/InterfaceController( 2779): Warning (dlopen failed: library
"/system/lib/libnetcmdiface.so" not found) while opening the net interface
command library
----- beginning of /dev/log/system
I/Vold ( 2774): Vold 2.1 (the revenge) firing up
E/Vold ( 2774): boot_mode =
E/Vold ( 2774): eMMC boot_mode
D/Vold ( 2774): Volume sdcard0 state changing -1 (Initializing) -> (No-
Media)
D/Vold ( 2774): Volume sdcard1 state changing -1 (Initializing) -> (No-
Media)
D/Vold ( 2774): Volume usb2host state changing -1 (Initializing) -> (No-
Media)
D/Vold ( 2774): Volume usb3host state changing -1 (Initializing) -> (No-
Media)
D/Vold ( 2774): Volume usb3device state changing -1 (Initializing) ->
(No-Media)
D/Vold ( 2774): Volume sdcard0 state changing (No-Media) -> 1 (Idle-
Unmounted)
W/Vold ( 2774): Duplicate state (1)
W/Vold ( 2774): Duplicate state (1)
```

On Voodiks' LineageOS Android 7.x

You have to enable the option in ODROID-Utility app Misc tab menu.



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