

ADB

From Technexionrd

download from <http://developer.android.com/sdk/index.html>

Please go to SDK_Download (<http://developer.android.com/sdk/index.html>) .

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Linux

Download (http://dl.google.com/android/android-sdk_r08-linux_86.tgz)

```
tar zxvf ~/android-sdk_r08-linux_86.tgz  
cd android-sdk-linux_86
```

The folder structure should be

```
add-ons
platforms
SDK Readme.txt
tools
```

Most of the utilities are not ready yet.

```
./tools/android update sdk
```

It will launch a GUI interface. Install all the packages you need.

now the "adb" is in the folder "platform-tools", you can add it to your path.

Connect by USB

Connect usb-otg on tao to host machine

Turn on USB Debug

MENU->Settings->Applications->Development and then enable the "USB debugging" option.

Setup Host Machine

Log in as root and create this file: /etc/udev/rules.d/51-android.rules

```
For Gusty/Hardy, edit the file to read:
SUBSYSTEM=="usb", SYSFS{idVendor}=="18d1", MODE="0666"
```

```
For Dapper, edit the file to read:
SUBSYSTEM=="usb_device", SYSFS{idVendor}=="18d1", MODE="0666"
```

Execute the following to change the user mode for the rules file.

```
host#> chmod a+r /etc/udev/rules.d/51-android.rules
```

Verify the adb connectivity between host and target board

```
host#> adb devices
```

If device is connected, then output on screen should list the device, example:

```
List of devices attached
20100720    device
```

Login use ADB

```
host#> adb shell
```

Connect by ethernet

Please make sure ethernet on both tao and the host machine are connected to same network Check Ethernet configuration for the board

```
tao #> netcfg
      lo        UP      127.0.0.1        255.0.0.0        0x00000049
      eth0      UP      192.168.70.135  255.255.255.0    0x00001043
```

If Ethernet was not configured, configure Ethernet of the board using ifconfig/netcfg as shown below.

```
tao #> netcfg eth0 dhcp
```

Configure the ADB Daemon to use an ethernet connection using setprop as shown below.

```
tao #> setprop service.adb.tcp.port 5555
```

If network is configured successfully (above steps) then Restart service adbd on the target,

```
tao #> stop adbd
tao #> start adbd
```

On the host machine use following commands to establish adb connection

```
host#> export ADBHOST=<target's ip address>
host#> adb kill-server
host#> adb start-server
```

Verify for device connectivity, by executing the following commands

```
host#> adb devices If connected, you'll see the device name listed as a "emulator"
host#> adb devices
```

If connected, find the device name listed as a "emulator"

```
List of devices attached
emulator-5554    device
```

Login use ADB

```
host#> adb shell
```

For more information about adb commands, see Android Debug Bridge page at <http://developer.android.com/guide/developing/tools/adb.html>

Windows

Download (http://dl.google.com/android/installer_r08-windows.exe)

Download JRE/JDK (<http://www.oracle.com/technetwork/java/javase/downloads/index.html>)

Above two will install the Android SDK.

When plug in our device, Windows will prompt that a new device is found, and ask for driver. Please install with the drivers we provide.

ADB Functions

Application Install/Remove

Install

```
$> adb install <package>.apk
```

Remove

```
$> adb uninstall <package>.apk
```

File Operation

To Device

```
$> adb push <local_file_path> <remote_path>
```

From Device

```
$> adb pull <remote_file_path> <local_path>
```

Shell Operation

```
$> adb shell
```

Show Devices

```
$> adb devices
```

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