

GNU/Linux Administration - Support #680

Android Development Environment on Arch

10/18/2015 01:48 PM - Daniel Curtis

Status:	Closed	Start date:	10/18/2015
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Development Environment	Estimated time:	3.00 hours
Target version:	Arch Linux	Spent time:	3.50 hours

Description

This is a guide on how I set up my development environment for developing Android applications on Arch Linux.

Prepare the Environment

- Edit the pacman config file:

```
vi /etc/pacman.conf
```

- And uncomment the multilib definition:

```
[multilib]
Include = /etc/pacman.d/mirrorlist
```

- Make sure the system is up to date:

```
pacman -Syu
```

- Install a few dependencies:

```
pacman -S gcc git gnupg flex bison gperf sdl wxgtk squashfs-tools curl ncurses zlib schedtool
perl-switch zip unzip libxslt python2-virtualenv bc wget gcc-multilib lib32-zlib lib32-ncurses
lib32-readline
```

- Install [yaourt](#)

- Install libtinfo:

```
yaourt libtinfo
```

- Import the ncurses5-compat-libs pgp key:

```
gpg --keyserver pgp.mit.edu --recv-keys 702353E0F7E48EDB
```

Install Android SDK

- Install the Android SDK from the AUR:

```
yaourt -S android-sdk
```

- Install the Android SDK Platform Tools from the AUR:

```
yaourt -S android-sdk-platform-tools
```

- Install the Android SDK Build Tools from the AUR:

```
yaourt -S android-sdk-build-tools
```

- Create an android sdk users group:

```
groupadd sdkusers
```

- Add the user bob into the sdkusers group:

```
gpasswd -a bob sdkusers
```

- Change folder's group ownership

```
chown -R :sdkusers /opt/android-sdk/
```

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- Change permissions of the folder so the user in the sdkuser group will be able to write in the sdk folder:

```
chmod -R g+w /opt/android-sdk/
```

- Log out and log back in for the new group to take effect.

Install Android SDK Platform API

- Next install the latest Android SDK Platform API:

```
yaourt -S android-platform
```

Install Android Tools

- Install android-tools:

```
pacman -S android-tools
```

- Enable USB Debugging on the phone or device:

1. **Jelly Bean (4.2) and newer:** Go to Settings > About Phone tap *Build Number* until a popup appears that you have become a developer (about 10 times). Then go to Settings -> Developer --> USB debugging and enable it.
2. **Older versions:** This is usually done from Settings -> Applications -> Development -> USB debugging. Reboot the phone after checking this option to make sure USB debugging is enabled.

- Install android-udev:

```
pacman -S android-udev
```

- Add yourself to the adbusers group:

```
gpasswd -a bob adbusers
```

Install Android Studio IDE

- Install Android Studio from the AUR:

```
yaourt -S android-studio
```

- (Optional) Install the android-support package:

```
yaourt -S android-support
```

Resources

- <https://wiki.archlinux.org/index.php/Android>
- <http://developer.android.com/training/basics/firstapp/index.html>
- <http://developer.android.com/training/index.html>
- <http://developer.android.com/training/basics/firstapp/creating-project.html>

History

#1 - 10/18/2015 02:53 PM - Daniel Curtis

- Subject changed from *Android Development on Arch* to *Android Development Environment on Arch*

- Description updated

- Status changed from *New* to *In Progress*

- % Done changed from *0* to *20*

#2 - 10/18/2015 03:26 PM - Daniel Curtis

- Description updated

- % Done changed from *20* to *30*

#3 - 10/18/2015 05:02 PM - Daniel Curtis

- % Done changed from *30* to *50*

- Description updated

#4 - 10/18/2015 05:15 PM - Daniel Curtis

- Description updated

#5 - 10/18/2015 08:39 PM - Daniel Curtis

- Status changed from *In Progress* to *Resolved*

- % Done changed from *50* to *100*

#6 - 10/18/2015 08:40 PM - Daniel Curtis

- Description updated

#7 - 11/27/2015 03:54 PM - Daniel Curtis

- Status changed from *Resolved* to *Closed*

#8 - 07/15/2016 07:36 PM - Daniel Curtis

- Description updated

#9 - 07/26/2016 08:32 AM - Daniel Curtis

- *Description updated*

#10 - 07/26/2016 10:01 PM - Daniel Curtis

- *Description updated*