Install Android on VMWare: Android-x86

tags: `VMWare` , `Android` , `Android-x86`

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Ref 1: Install Android 8.1 Oreo in Virtual Machine: VMware and VirtualBox (https://techsviewer.com/install-android-in-virtual-machine-vmware-and-virtualbox/)

Ref 2: 解決安裝 ANDROID X86 啟動時黑畫面 (http://mizuyoru.blogspot.com/2017/12/vmware-android-x86.html)

Ref 3: Android-x86.org (https://www.android-x86.org/)

- about Android-x86 project
    - This is a project to port Android open source project to x86 platform, formerly known as "patch hosting for android x86 support".
    - licensed under Apache Public License 2.0. Some components are licensed under GNU General Public License (GPL) 2.0 or later.
    - The project is founded by Chih-Wei Huang (cwhuang in **Taiwan**) and Yi Sun (beyounn in U.S.). **<Please donate if you can!>**

steps

1. download the iso file that suits you most on Android-x86.org (https://www.android-x86.org/)

    - I use android-x86_64-8.1-r4.iso (https://osdn.net/dl/android-x86/android-x86_64-8.1-r4.iso) this time. It is Android 8.1(Oreo) for 64-bit windows. about 868 MB

2. create a new virtual machine on VMware

    - choose `I will install the operating system later`
    - Next, you will be required to select the guest operating system. Choose `Other Linux 4.x`
    - enter whatever name of your machine and the directory you'd like to save it.
    - Harddisk: either use the suggested size (8 GB), or any amount. (I use 24 GB this time)
    - Click `Customize Hardware`

- RAM: suggested >= 1 GB (I use 16 GB this time because I've got plenty of RAM)
- CPU: at least 1 core (I use 4)
- Mount the iso file via setting `CD/DVD (IDE)`
- select tab `Display` and enable `Accelerate 3D Graphics`
- than close the setting and start the VM

3. installation of android on your vm

- `Advanced options...`
- then `Auto_Installation`
- it will warn you such installation will erase the disk, just go because we're working on a dedicated VM for it.
- After successful installation, `Disconnect` the CD/DVD on the top-right tool bar of VMware. then choose `Reboot`.

4. deal with boot-up freeze issue

- press `e`
- press `e`
- replace `quiet` to `nomodeset xforcevesa`
- press `enter`
- press `b`
- as you see android system on, press `Alt+F1`
- type in
  ```
  mkdir /mnt/sda
  mount /dev/block/sda1 /mnt/sda
  vi /mnt/sda/grub/menu.lst
  ```
- press `i` to edit, replace `quiet` to `nomodeset xforcevesa`
- press `Esc` to return read-mode
- press `:w` then press `Enter`
- press `:q` then press `Enter`
- type `reboot` then press `Enter`

5. You're good to go!