Devuan Setups

These depends on my need when using that particular machine.

- using virtualbox from oracle (just like my slackware setup)
- using texlive (install using tlmgr)
    - alternatively, install texlive texlive-latex-extra texlive-science
- install freecad kicad openscad (project stuffs)
- install ntp ntpdate (system management)

Development

- getting *OpenGL* stuffs (glut): `$ apt install freeglut3-dev`
- getting *sqlite* stuffs: `$ apt install sqlite3 libsqlite3-dev`
- getting glade (will also get gtk library): `$ apt install glade`
- getting *wxwidgets* stuffs: `$ apt install lib-wxgtk3.0dev`
- getting *my1imgpro* stuffs: `$ apt install libavcodec-dev libavdevice-dev libavformat-dev libswscale-dev`
- to compile *sdcc*: `$ apt install bison flex libboost-dev texinfo`

note: Setting up mingw-w64 cross-compiler

Web Server

- Install webserver

```
$ apt install //apache2//
```

    - default path for web is `/var/www/html`
    - configure

```
$ cd /etc ; vi apache2/apache2.conf ; cd - >/dev/null
```

        - add *ServerName* (remove annoying startup message!)
        - my *my1apisrv* code need these for *www* dir config

```
  Options FollowSymLinks
  AllowOverride All
  Require all granted
```

- Install php

```
$ apt install php php-cgi libapache2-mod-php php-mysql php-sqlite3
```

    - enable pdo support

```
cd /etc ; vim php/7.0/apache2/php.ini ; cd - >/dev/null
```

    - create required links in mods-enabled and conf-enabled
        - my my1apisrv code need `rewrite`
        - both folders are in `apache2` (/etc)
    - if running dokuwiki

```
$ apt install php-xml
```

    - my API client php code needs this

```
$ apt install php-curl
```

- Install database

```
$ apt install mariadb-server
```

Multi-Arch (a.k.a. Multi-Lib)

To run 32-bit binary:

- Enable multi-arch: `$ dpkg –add-architecture i386`
- Update package list: `$ apt update`
- Most probably need libc: `$ apt install` *`libc6:i386`*
- Install required libraries: (<package>:i386)

To build 32-bit binary:

- Install compiler(s): `$ apt install` *`gcc-multilib g++-multilib`*
    - Notice that these are 64-bit packages (no :i386 suffix) → cross compilers!
- Use `-m32` gcc option to compile!

Gaming

To play steam games:

- enable multi-arch
- install steam

```
$ apt install steam
```

NFS setup

Dumping this as it is for now:

- client
    - install

```
$ apt install nfs-common
```

- mount

```
$ mount -t nfs <host>:/path <mount-point>
```

- server
  - install

```
$ apt install nfs-kernel-server
```

  - [optional]

```
$ mount --bind /path/to/share /mount/point
```

  - modify accordingly

```
$ cd /etc ; vim exports ; cd - >/dev/null
```

  - start

```
$ service nfs-kernel-server start
```

Others

My iso2boot script need *isohybrid* from syslinux/isolinux project:

- `$ apt install syslinux-utils`

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