

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 *mylimpro* 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 webservice

```
$ 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 mylapisrv 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!

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