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# Build\_QPKG

Created by Subbu K (Subramanyam Kunchapu), last modified on Nov 17, 2022

## VM creation and Setup

### Creating Virtual Machine

- Link for downloading VMware VSphere Client: <http://vsphereclient.vmware.com/vsphereclient/VMware-viclient-all-6.0.0.exe>
- After installing VMware VSphere Client open that.
- Popup will open enter the **IP address**, **username** and **password** and click login.
- After login popup will open click on **ignore**.
- The host page will open along with VMs.
- On **right** click on **host (IP address)** and click on **New Virtual machine**.
- Popup will open the select **configuration** as **Typical** then click next.
- Then Whatever name you want to Virtual machine the click next.
- The dB is set default then click next.
- Then select **guest operating system** as **Linux** and **version** as **Ubuntu Linux 64bit** then click next.
- Select **Network** as **VM network** then click next.
- Select **Virtual disk size** how much needed then click next.
- **Check the Edit the VM setting then click continue.**
- In **left** side select **Memory**, in that **Set memory** as **16/8 GB**.
- In **left** side select **CPUs**, in that **Set number of virtual sockets as 4** and **Set number of core per sockets as 8** then click Finish.
- **Then Virtual Machine is created,**
- Click on Virtual Machine created, in **right side** click on **Power on VM**.
- **Right** Click on **Virtual Machine created**, then click **open console**.
- Console will open, then in console tool bar click on **CD/DVD drive option**.
- Then click **CD/DVD drive1(1)** in that select **connect to ISO on a database**.
- Then select **ISO**, in that select **Ubuntu 18.04.3 version**
- Then install Ubuntu by below given link

Installation of Ubuntu : <https://youtu.be/EH37ee9JDg8>

### GENERATE QPKG

After Installation Ubuntu/ Linux you need install applications using these commands:

- How to connect these Ubuntu server to mobaxterm:
- To run commands in terminal:
- `sudo apt-get install openssh-server`
- `sudo systemctl enable ssh`
- `sudo systemctl enable ssh --now`
- `sudo systemctl start ssh`
- run this command and get IP `ip addr`
- And open mobaxterm

ssh `userName@Your-server-name-IP` and enter password.

- Install some applications using these commands
  - To install NPM and node js
  - `sudo apt install npm`

Note: here nodejs version should be greater 14

- To install **GIT**
  - `sudo apt install git`
- To install **SSHPASS**
  - `sudo apt install sshpass`
- To install **Curl**
  - `sudo apt install curl`
- To install **nodejs** with version **14.x**
  - `curl -fsSL https://deb.nodesource.com/setup_14.x | sudo -E bash -`
  - `sudo apt-get install -y nodejs`

And check version is 14.x or not

- To install **RUST**
  - `curl --proto '=https' --tlsv1.2 -sSf https://sh.rustup.rs | sh`
  - after executing above command and you need to give path
    - `source "$HOME/.cargo/env"`
- To install **cargo**
  - `sudo apt install cargo`
- To install **Cross**
  - `cargo install cross`
- To install **DOCKER**
  - `sudo apt install docker.io`
  - `sudo snap install docker`
- Install **Python 3.7**.
  - Change server user to admin by running below command
    - `sudo -s`
  - Check Python version == python3.7.x and if not there install using below command
    - `apt-get install python3.7`
- To setup **Python Environment**. Navigate required path to install environment and run this commands
  - `python3.7 -m venv env`
  - `apt-get install python3-venv`

And **activate Environment** using this command

- `source env/bin/activate`

To **Generate QPKG** to follow below steps.

- Clone DA code from git
- Navigate DA and inside scripts have `.config.bak` file, these file rename to `.config` file.

```
(env) root@subbu-VMM:~/subbu/dadriveanalyzer# type -a python3
python3 is /home/subbu/subbu/dadriveanalyzer/env/bin/python3
python3 is /usr/bin/python3
(env) root@subbu-VMM:~/subbu/dadriveanalyzer#
```

```
requirements.txt M X | storage_manager.py M | .config.bak | setup.py
```

```
> .config.bak
```

```
REMOTE_ADDR="10.24.64.61"
REMOTE_USER="admin"
REMOTE_PASSWORD="qnapp"
REMOTE_PATH="/share/CACHEDEV1_DATA/.qpkg/QDK"

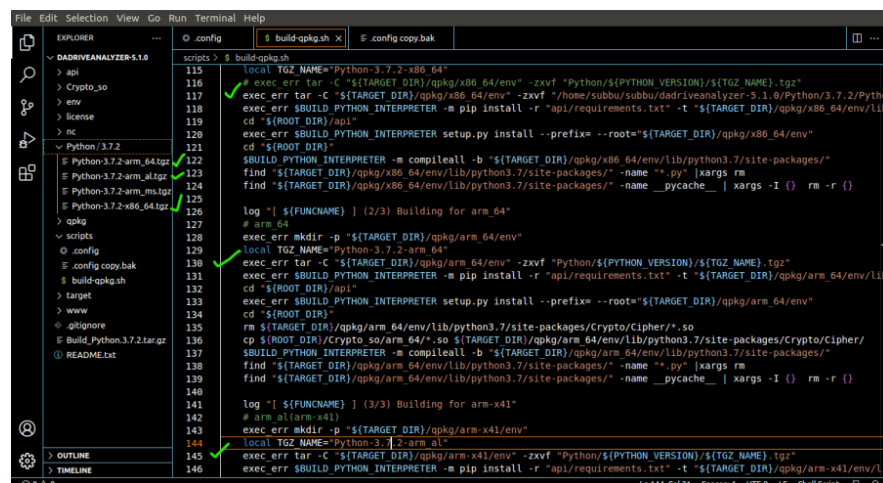
BUILD_PYTHON_INTERPRETER="/home/subbu/subbu/dadriveanalyzer-5.1.0/env/bin/python3.7"
PYTHON_VERSION="3.7.5"

CODE_SIGNIN_TOKEN=d485ca9040f34fe4bfe8eb0917612964
```

- ```

[env] ~/home/subbu/subbu/dadriaveanalyzer-5.1.0/target/gpkg/shared/html/gcbin' ...
Compiling "/home/subbu/subbu/dadriaveanalyzer-5.1.0/target/gpkg/shared/html/gcbin.py" ...
[VI] [2022/11/02 08:36:24] [api 1 (1/3)] Building for x86_64
tar (child): Python3.7.5/Python3.7.2-x86_64.tgz: Cannot open: No such file or directory
tar (child): Error is not recoverable: exiting now
tar: Child returned status 2
tar: Error is not recoverable: exiting now
[X] [2022/11/02 08:36:24] ERROR: Encountered error (2) while running the following:
[X] [2022/11/02 08:36:24] tar -C /home/subbu/subbu/dadriaveanalyzer-5.1.0/target/gpkg/x86_64/env -zxvf Python3.7.5/Python3.7
[X] -x86_64.tgz
[X] [2022/11/02 08:36:24] (at line 116 of file /home/subbu/subbu/dadriaveanalyzer-5.1.0/scripts/build-gpkg.sh)
[X] [2022/11/02 08:36:24] Aborted
(env) root@ubuntu:~/subbu/dadriaveanalyzer-5.1.0#

```



**Error: If the token is invalid and need to generate CODE\_SIGNIN\_TOKEN**

```

Creating archive with data files for x86_64...
Connecting to code signing server to create anti-tampering data ...
Can't find build_sign.csv, ignore anti-tamper
Creating archive with control files ...
Creating OPKG package ...
2022-10-26 22:40:49.973 - ERROR - Error message from server: Token d485ca9040f34fe4bfe8eb917612964 is invalid
Driveanalyzer-2.9.5.1027_x86_64.qpkg: Code signing digital signature was not added
Creating archive with data files for arm_64...
Connecting to code signing server to create anti-tampering data ...
Can't find build_sign.csv, ignore anti-tamper
Creating archive with control files ...
Creating OPKG package ...
2022-10-26 22:47:15.150 - ERROR - Error message from server: Token d485ca9040f34fe4bfe8eb917612964 is invalid
Driveanalyzer-2.9.5.1027_arm_64.qpkg: Code signing digital signature was not added
Creating archive with data files for arm-x41...
Connecting to code signing server to create anti-tampering data ...
Can't find build_sign.csv, ignore anti-tamper
Creating archive with control files ...
Creating OPKG package ...
2022-10-26 22:47:37.973 - ERROR - Error message from server: Token d485ca9040f34fe4bfe8eb917612964 is invalid
Driveanalyzer-2.9.5.1027_arm-x41.qpkg: Code signing digital signature was not added
[I] 2022/10/27 15:37:43 **** Building OPKG End ****
[I] 2022/10/27 15:17:43 **** BUILDING OPKG version 2.9.5.1027 FINISHED ****
root@subbuk-VM:~/subbuk/driveanalyzer-master# docker --version
Docker version 20.10.17, build 20.10.17-dubuntu5-18.04.3
root@subbuk-VM:~/subbuk/driveanalyzer-master# docker run --rm --name subbuk/driveanalyzer-master:target

```

- `sh scripts/codesigning login.sh`

```
[/] # cd share/CACHEDEV1_DATA/.qpkg/QDK/
[/share/CACHEDEV1_DATA/.qpkg/QDK] # pwd
[/share/CACHEDEV1_DATA/.qpkg/QDK] # ls
bin/ doc/ gdk*  gdk.conf  qpkg/  qpkg_782/  qpkg.tar.gz  scripts/  template/
[/share/CACHEDEV1_DATA/.qpkg/QDK] # sh scripts/codesigning_login.sh
username: subbuk
password:
Token: f71ebd0b0c344f04841d3c61b087100e
[/share/CACHEDEV1_DATA/.qpkg/QDK] #
```

**Error1:**

```
File "/usr/lib/python3.7/imports/_init_.py", line 127, in import_module
    return bootstrap.gcd_import(name[level:], package, level)
File "<frozen importlib._bootstrap>", line 1006, in gcd_import
File "<frozen importlib._bootstrap>", line 983, in find_and_load
File "<frozen importlib._bootstrap>", line 965, in find_and_load_unlocked
ModuleNotFoundError: No module named 'markupsafe'

-----
Command 'python setup.py sdist' failed with error code 1 in /tmp/pip-build-sx7u0j0p/MarkupSafe/
[X] [2022/11/02 08:45:30] ERROR: Encountered error (1) while running command
[X] [2022/11/02 08:45:30] /home/subbu/subbu/dadr/veanalyzer-5.1.0/env/bin/python3.7 -- pip install -r api/requirements.txt -t
/home/subbu/subbu/dadr/veanalyzer-5.1.0/src/subbu/veanalyzer-5.1.0/venv/lib/python3.7/site-packages
[X] [2022/11/02 08:45:30] (at line 118 of /home/subbu/subbu/dadr/veanalyzer-5.1.0/scripts/build-qpkg.sh)
[X] [2022/11/02 08:45:30] Aborted
```

**To fix this error :: To upgrade pip `pip install --upgrade pip`**

**Error2:**

```
x86_64-linux-gnu-gcc -pthread -Wno-unused-result -Wsign-compare -fwrapv -Wall -fstack-protector-strong -Wformat -Werror=format-secu
rity -fwrapv -fstack-protector-strong -Wformat -Werror=format-security -Wdate-time -D_FORTIFY_SOURCE=2 -fPIC -std=c99 -O3 -fomit-frame-po
inter -Isrc -I/home/subbu/subbu/dadriveanalyzer-5.1.0/env/include -I/usr/include/python3.7m -c src/MD2.c -o build/temp.linux.x86_64-3.7/
src/MD2.o
src/MD2.c:31:10: fatal error: Python.h: No such file or directory
#include "Python.h"
           ^
compilation terminated.
error: command 'x86_64-linux-gnu-gcc' failed with exit status 1
[end of output]

note: This error originates from a subprocess, and is likely not a problem with pip.
error: legacy-install-failure

x Encountered error while trying to install package.
↳ pycrypto

note: This is an issue with the package mentioned above, not pip.
hint: See above for output from the failure.
[X] (2022/11/02 08:49:47) ERROR: Encountered error (1) while running the following:
[X] (2022/11/02 08:49:47) /home/subbu/subbu/dadriveanalyzer-5.1.0/env/bin/python3.7 -m pip install -r api/requirements.txt -t
/home/subbu/subbu/dadriveanalyzer-5.1.0/target/gbq/x86_64/env/lib/python3.7/site-packages
[X] (2022/11/02 08:49:47) (at line 118 of file /home/subbu/subbu/dadriveanalyzer-5.1.0/scripts/build-gpkg.sh)
[X] (2022/11/02 08:49:47) Aborted
(env) root@subuntu:~/subbu/dadriveanalyzer-5.1.0
```

```
sudo apt-get install python3.7-dev
```

### Error3:

```

Compiling /home/subbu/subbu/dadriaveanalyzer-master/target/pkg/arm-x4l/env/lib/python3.7/site-packages/2.tpp.py" ...
[I] [2022/10/27 14:06:10] **** Building and collecting apt END ****
[I] [2022/10/27 14:06:10] **** Building and collecting license START ****
[V] [2022/10/27 14:06:10] [ license ] (1/3) Building for x86_64
info: downloading component 'rust-src'
info: installing component 'rust-src'
Error:
0: no container engine found

Suggestion: is docker or podman installed?
[X] [2022/10/27 14:06:18] ERROR: Encountered error (1) while running the following:
[X] [2022/10/27 14:06:18] cross build --release --target x86_64-unknown-linux-gnu
realpath: scripts/build-pkg.sh: No such file or directory
[X] [2022/10/27 14:06:18] (at line 166 of file )
[X] [2022/10/27 14:06:18] Aborted
root@subbu-Wi:~/subbu/dadriaveanalyzer-master# eval "$(/home/linuxbrew/.linuxbrew/bin/brew shellenv)"
bash: /home/linuxbrew/.linuxbrew/bin/brew: No such file or directory

```

**To fix this error run below commands.**

- `/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"`
- `eval "$(/home/linuxbrew/.linuxbrew/bin/brew shellenv)"`
- `sudo apt-get install build-essential`
- `brew tap messense/macOS-cross-toolchains`
- `brew install x86_64-unknown-linux-gnu`
- `export CC_x86_64_UNKNOWN_LINUX_GNU=x86_64-unknown-linux-gnu-gcc`
- `export CXX_x86_64_UNKNOWN_LINUX_GNU=x86_64-unknown-linux-gnu-g++`
- `export AR_x86_64_UNKNOWN_LINUX_GNU=x86_64-unknown-linux-gnu-ar`
- `export CARGO_TARGET_x86_64_UNKNOWN_LINUX_GNU_LINKER=x86_64-unknown-linux-gnu-gcc`
- `rustup target add x86_64-unknown-linux-gnu`
- `cargo build --target x86_64-unknown-linux-gnu`

No labels