

VALUE TRANSFER PRIVACY REVIEW THROUGH CRYPTOCURRENCIES

User Manual
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System Requirements

Required

- A Windows or Linux OS on a PC or laptop.
- Internet access

Optional

- Whonix install
- A CPU that supports virtualisation. Intel VT-x or VT-d or AMD-V

Installation and Setup Requirements

It is recommend to install Whonix on your operating system because the IP address leakage problem is fixed by it as all of its traffic is put through Tor.

A. Please us the link to go to the Whonix website to download the software.

“<https://www.whonix.org/wiki/VirtualBox>”

B. Select Whonix with XFCE.

C. Select the download button.

D. Follow the instructions on that current page of Whonix.

You can then follow the instructions as if you were running a Linux OS.

The below requirements are listed in chronological order and are all necessary for the program to install and run correctly.

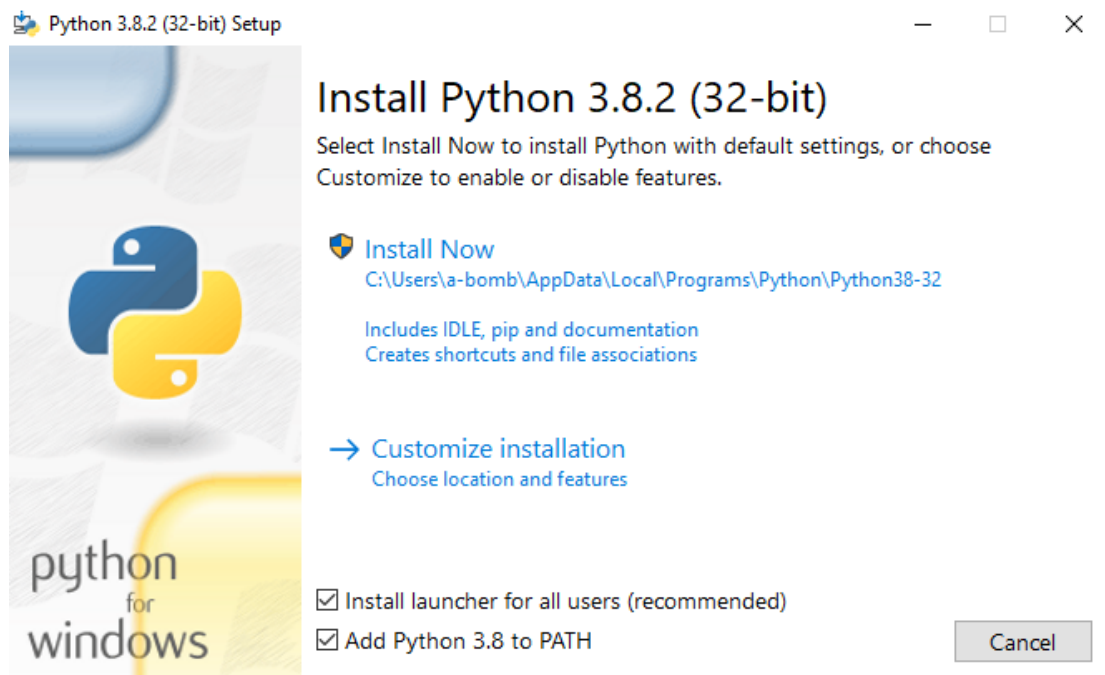
Installing Python

A. Download python

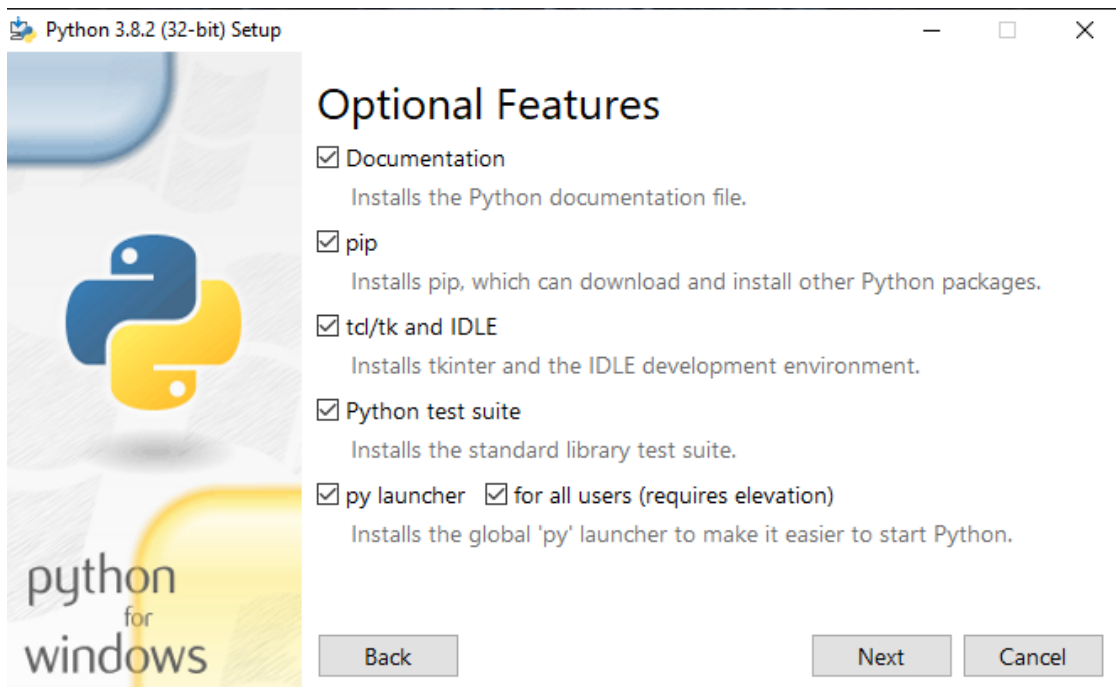
As the program is written in python, a python interpreter is required. To install this you need to go to “<https://www.python.org/downloads/release/python-382/>” or using a browser search for “Python install” and select the newest version available.

Version	Operating System	Description	MD5 Sum	File Size	GPG
Gzipped source tarball	Source release		f9f3768f757e34b342dbc06b41cbc844	24007411	SIG
XZ c.compressed source tarball	Source release		e9d6ebc92183a177b8e8a58cad5b8d67	17869888	SIG
macOS 64-bit installer	Mac OS X	for OS X 10.9 and later	f12203128b5c639dc08e5a43a2812cc7	30023420	SIG
Windows help file	Windows		7506675dccb9a1569b54e600ae66c9fb	8507261	SIG
Windows x86-64 embeddable zip file	Windows	for AMD64/EM64T/x64	1a98565285491c0ea65450e78afe6f8d	8017771	SIG
Windows x86-64 executable installer	Windows	for AMD64/EM64T/x64	b5df1cbb2bc152cd70c3da9151cb510b	27586384	SIG
Windows x86-64 web-based installer	Windows	for AMD64/EM64T/x64	2586cdad1a363d1a8abb5fc102b2d418	1363760	SIG
Windows x86 embeddable zip file	Windows		1b1f0f0c5ee8601f160cfad5b560e3a7	7147713	SIG
Windows x86 executable installer	Windows		6f0ba59c7dbeba7bb0ee21682fe39748	26481424	SIG
Windows x86 web-based installer	Windows		04d97979534f4bd33752c183fc4ce680	1325416	SIG

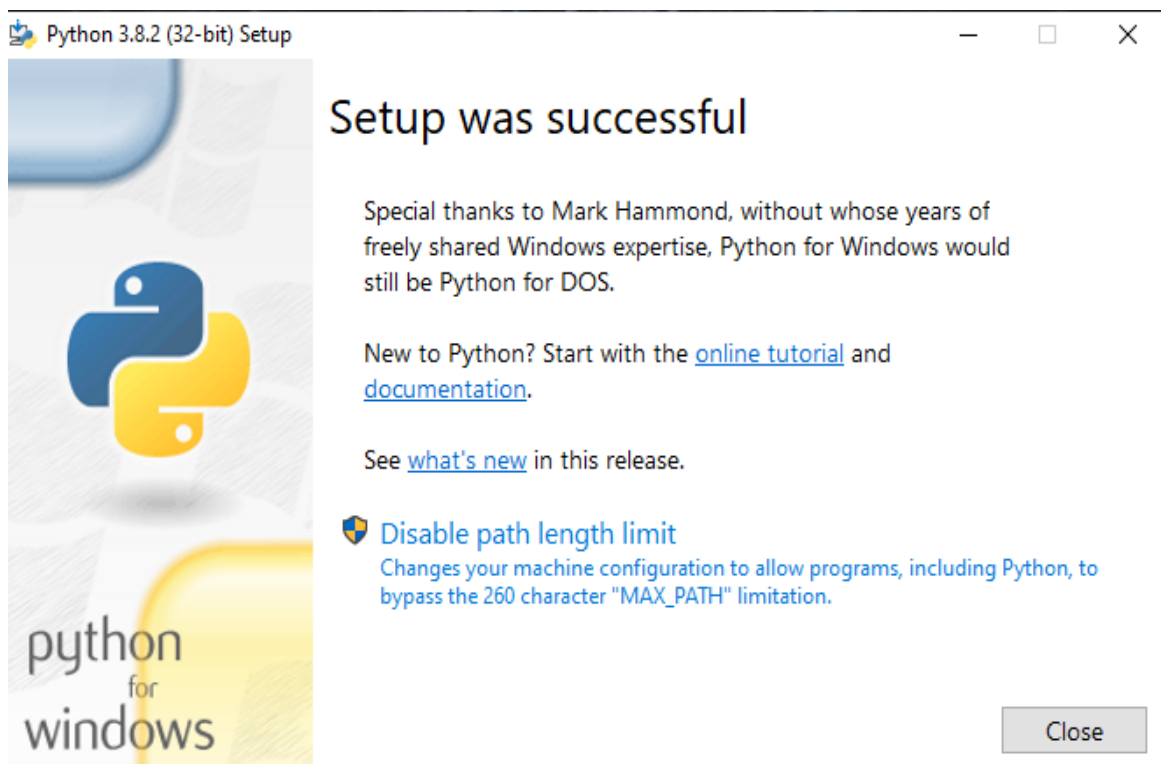
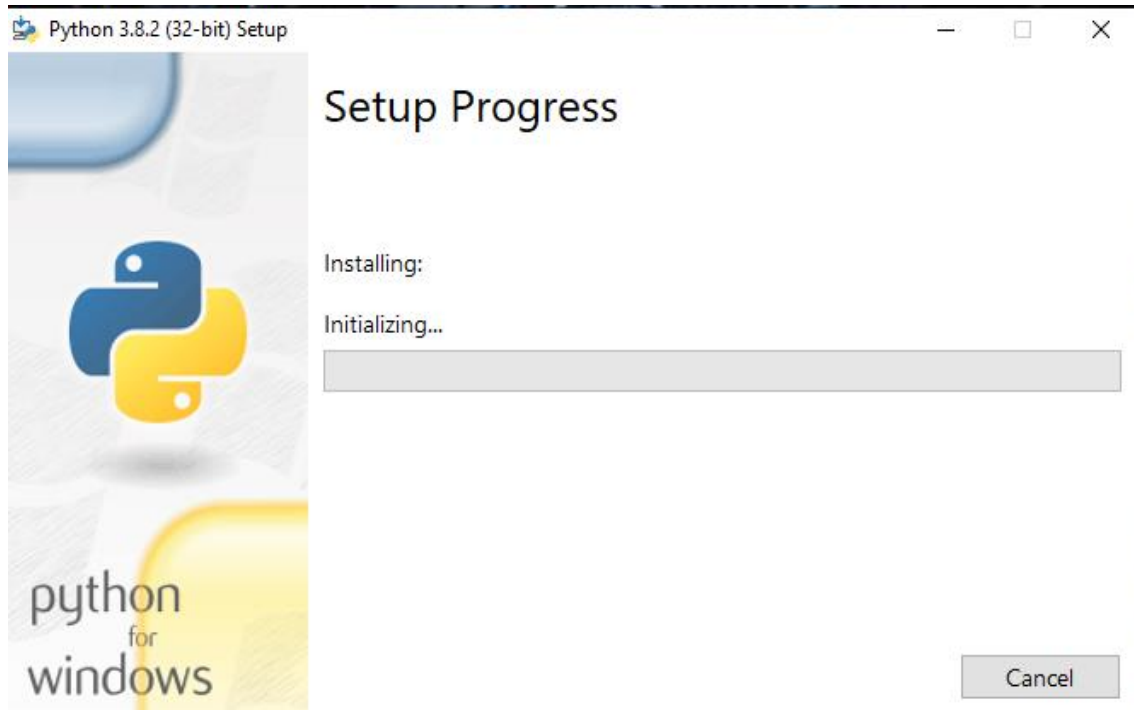
B. Install Python by running the python.exe file once downloaded.



C. Check all the boxes and click next.



D. Install and wait for the setup to be completed.



Installing PyQT

A. Ensure that pip and its necessary packages are up-to-date.

Commands:

- `python -m pip install --upgrade pip`
- `pip install --upgrade setuptools`

B. Use pip (The Python Package Installer) to install PyQT5 using a command line, which is necessary for the GUI of the application.

Command:

- `pip install PyQT5`

Installing Visual Studio

A. Download the appropriate visual studio file for your processor from the following source;

<https://support.microsoft.com/en-us/help/2977003/the-latest-supported-visual-c-downloads>

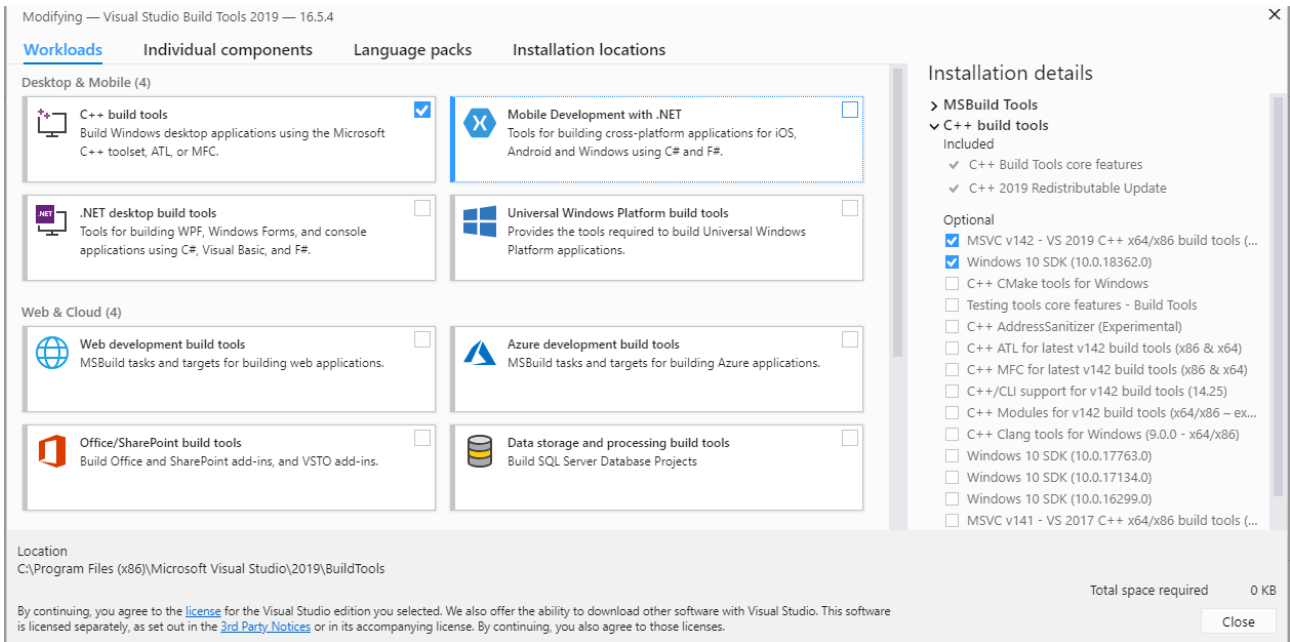
Visual Studio 2015, 2017 and 2019

Download the [Microsoft Visual C++ Redistributable for Visual Studio 2015, 2017 and 2019](#). The following updates are the latest supported Visual C++ redistributable packages for Visual Studio 2015, 2017 and 2019. Included is a baseline version of the Universal C Runtime see [MSDN](#) for details.

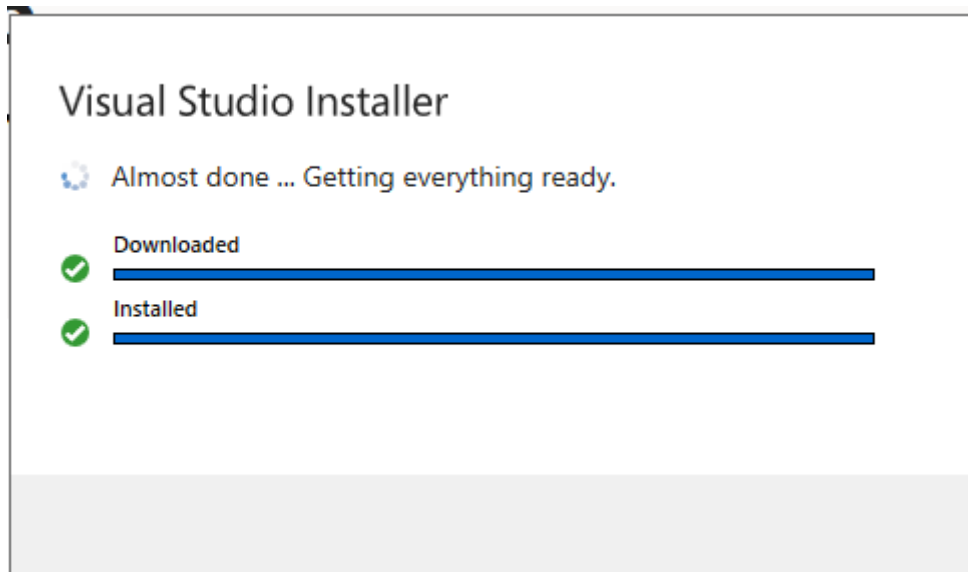
- x86: [vc_redist.x86.exe](#)
- x64: [vc_redist.x64.exe](#)
- ARM64: [vc_redist.arm64.exe](#)

B. Run the installer once downloaded. Select the following options from the list provided;

- C++ Build Tools
- Windows 10 SDK



C. Wait for the download and installation process to be completed.



Run the Monero testnet

A. Launch the executable file called monero-wallet-cli.exe for Windows or monero-wallet-cli for Linux. In you CLI you can use the command provided to run the Monero testnet ahead of time as this will several hours.. The Linux version is able to fork to background so that you don't need to leave the shell open. Please ensure that your user has the right to run the following file.

Command:

Linux: `./monerod --testnet --detach`

Windows: `monerod.exe -testnet`

Installing Other Dependencies

A. Install pysha3 module, as this is necessary for password hashing within the application.

Command:

- `pip install pysha3`

B. Install the qrcode module.

Command:

- `pip install qrcode`

C. Install requests.

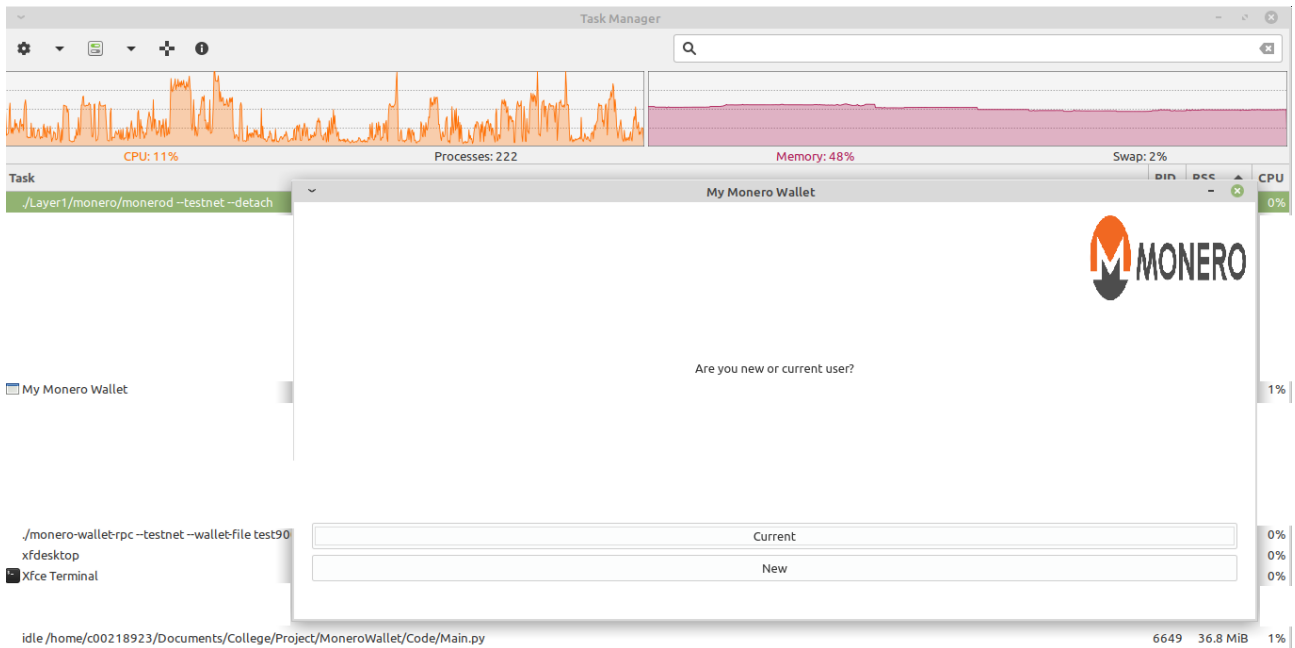
Command:

- `pip install requests`

Once users have this setup completed, they will be able to run the program by right clicking "main.py" and run using a python interpreter, for example IDLE.

System Usage

Below is a sample screenshot of the program running on a low end laptop. As you can see, apart from the size of the program it is quite easy to run:



User Testing

During the development of the project, I got members of my class to give me their feedback regarding my UIX and how the program was going to work. I was unable to get other people to test the program after it was fully developed in person because of the ongoing COVID-19 epidemic.