

ReGov GUI: Requirements Installation & Configuration

1. Make sure the Truffle, Ganache, Python, and PIP are all installed and running
 - a. Truffle v5.9.4 [download](#)
 - b. Ganache v7.8.0 [download](#)
 - c. Node v18.12.1 [download](#)
 - d. Python 3.8.8 [download](#)
 - e. pip 23.3.1 [download](#)

2. Make sure the path environment variable is pointing to Python 3.8.

For Windows 10,11: First copy the path where Python 3.8 is installed. A typical installation would have the following path,

`C:\Users\MyUserName\AppData\Local\Programs\Python\Python38\Scripts`

Then in Windows search, type 'Environment Variable' and click on the 'Edit the system environment variables' option. In the pop-up window click the 'Environment Variable' button, and then select Path variable and click Edit. In the new pop-up window click on New and paste the copied path to the location where Python 3.8 is installed in your system.

3. [Download](#) and unzip the "UsageControl-DecentralTrading.zip". Then open the terminal and traverse the current directory to the project folder using the *cd command*.

For example: `cd Downloads/UsageControl-DecentralTrading`

4. After reaching the UsageControl-DecentralTrading folder in the terminal, install all Python dependencies by running

```
pip install -r requirements.txt
```

5. Compile and deploy all the smart contracts by running

```
truffle migrate or truffle migrate --reset
```

6. Open the file [DTaddresses.py](#) from *UsageControl-DecentralTrading/node/Pod Manager/DTaddresses.py* and do the following
 - a. Replace the **DTMONITORING** and **DTINDEXING** values with the new DTmonitoringOracle and DTindexing contract addresses (logged in the terminal) respectively.
 - b. Make sure the value of **WEBPROVIDER** is the same as your ganache's RPC server.
 - c. Replace the value of **DEFAULT_POD_LOCATION** with your preferred location where you would like to create pods. The final folder must be named only as 'Pod'.

For example: *C:/Users/user1/**Pod**/* or *D:/downloads/project/folder/**Pod**/*

7. Create a folder named Pod in the same location mentioned above.
8. In the File, *DTaddress_generator.py* from *UsageControl-DecentralTrading/node/Pod Manager/DTaddress_generator.py* in `generate_account()`, return the public and private keys of the first Eth account in Ganache. Click the Key icon to get the credentials.

ADDRESS	BALANCE	TX COUNT	INDEX	
0x7bB32B472379EA9bf95E55B873D80D6877F154A0	99.93 ETH	4	0	

9. Launch the app by running the *app.py* file in the *UsageControl-DecentralTrading/node/Pod Manager/app.py*
A Tkinter Python application should be up and running.