

## Steps for Installing MetaHealth – Blockchain project.

Prerequisites:

### Step 1. Node.js:

- Download and install Node.js from the official website: [Node.js Downloads] (<https://nodejs.org/en/download/>)

- Step up path in the Environment Variables

### Step 2. Python:

- Download and install Python from the official website: [Python Downloads] (<https://www.python.org/downloads/>)

- Step up path in the Environment Variables

### Step 3. IPFS:

- Download the IPFS package from the provided link: [IPFS Download] (<https://dist.ipfs.tech/#go-ipfs>)
- Download the “kubo” version and extract the content in the project folder.

### Step 4. Angular:

- Open the command prompt or terminal.
- Run the following command to install the Angular CLI globally:

...

```
npm install -g @angular/cli
```

...

### Step 5. Truffle:

- Open the command prompt or terminal.
- Run the following command to install Truffle globally:

...

```
npm install -g truffle
```

...

If the installation fails, try the following command instead:

...

```
npm install -g truffle@5.4.29
```

...

### Step 6. Git:

- If Git is not already installed, download and install it from the official website: [Git Downloads] (<https://git-scm.com/downloads>)

### Step 7. GANACHE:

- Download and install GANACHE from the official website: [GANACHE Downloads] (<https://www.trufflesuite.com/ganache>)
- Launch the GANACHE application once it's installed on your machine.
- Select New Workshop and add project in the truffle project section.
- Step up the same IP as provided in the "truffle-config.js" file and then execute.

### Step 8. MetaMask:

- Open your browser and add extension of "MetaMask" from the webstore.
- Add network to the MetaMask with the same IP address of the GANACHE to import accounts.

## Project Setup:

### Step 1. Server Setup:

- Open the command prompt or terminal.
- Navigate to the server directory of the project.
- Run the following commands in sequence:

...

```
python -m pip install virtualenv
```

```
python -m virtualenv venv
```

```
Windows: venv\scripts\activate
```

```
For macOS / Linux : source venv/bin/activate
```

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

```
python manage.py migrate
```

```
python manage.py runserver
```

...

### Step 2. Client Setup:

- Open the command prompt or terminal.
- Navigate to the client directory of the project.
- Run the following commands in sequence:

...

```
npm install --force
```

```
truffle migrate
```

```
npm start
```

...

### Step 3. IPFS Configuration:

- Open the command prompt or terminal.
- Navigate to the kubo directory of the IPFS extracted files.
- Run the following commands in sequence:

...

```
ipfs init
```

```
ipfs daemon
```

...

- Update the IPFS configuration settings as follows:
- Open the link in the browser: (<http://127.0.0.1:5001/webui>) and go to IPFS configuration in settings.
- Add the following lines to the IPFS configuration file in the “API” section:

...

```
"API": {  
    "HTTPHeaders": {  
        "Access-Control-Allow-Methods": [  
            "POST",  
            "GET"  
        ],  
        "Access-Control-Allow-Origin": [  
            "*"   
        ]  
    }  
},
```

...

- Update the following lines to the IPFS configuration file in the “Gateway” section:

...

```
"Gateway": {  
    "APICommands": [],  
    "HTTPHeaders": {  
        "Access-Control-Allow-Headers": [  
            "X-Requested-With",
```

```

        "Range",
        "User-Agent"
    ],
    "Access-Control-Allow-Methods": [
        "POST",
        "GET"
    ],
    "Access-Control-Allow-Origin": [
        "*"
    ]
},
'''

```

- After updating the configuration, close the IPFS terminal and run the following commands.

```

'''
ipfs daemon
'''

```

#### Step 4. Project Execution:

- Open the browser and navigate to: (<http://localhost:4200/>)
- Use the private key of an account from the ganache to import account in MetaMask.
- Use the imported account to register and navigate the website.
- Use the public key of an account from ganache to register account.

#### Step 5: Starting already setup project:

- Open Ganache and select your network
- Open the following folder in terminal and execute the command in command prompt.
- Client: `` npm start ``
- Server: `` venv/Scripts/activate  
python manage.py runserver ``
- IPFS: `` ipfs daemon ``

\*\*\*\* CLEARING THE SERVER AND CLIENT \*\*\*\*

in Server directory: python manage.py flush  
in Client directory: truffle migrate