

# Procedure for Evaluation of Blocaïne

(The open source solution for automation)

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# 1 General information

To evaluate **Blocaïne**, you only need a single PC running two Python interpreters, one for the Blocaïne **Interpreter** and one for the **Block Editor**.

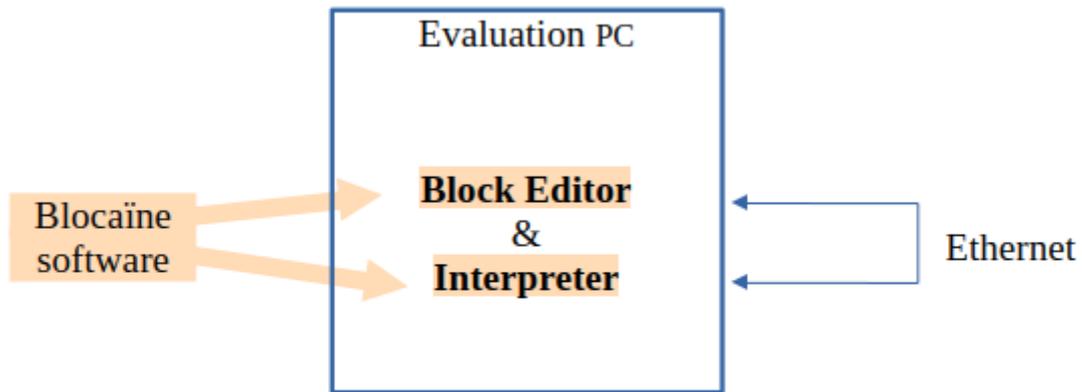


Figure 1 : Evaluation Architecture

## 2 Prerequisites

You need a computer with at least 100 Mo of free disk and Python3 programming language installed.

### 2.1 Python3?

Check that Python3 is properly installed on our computer.

- One windows, open a command prompt (cmd)
- One Linux, open a terminal

Then type in the console :

```
python3 --version
```

The response should be like :

```
Python 3.xx.xx
```

## 3 Installation of Blocaïne

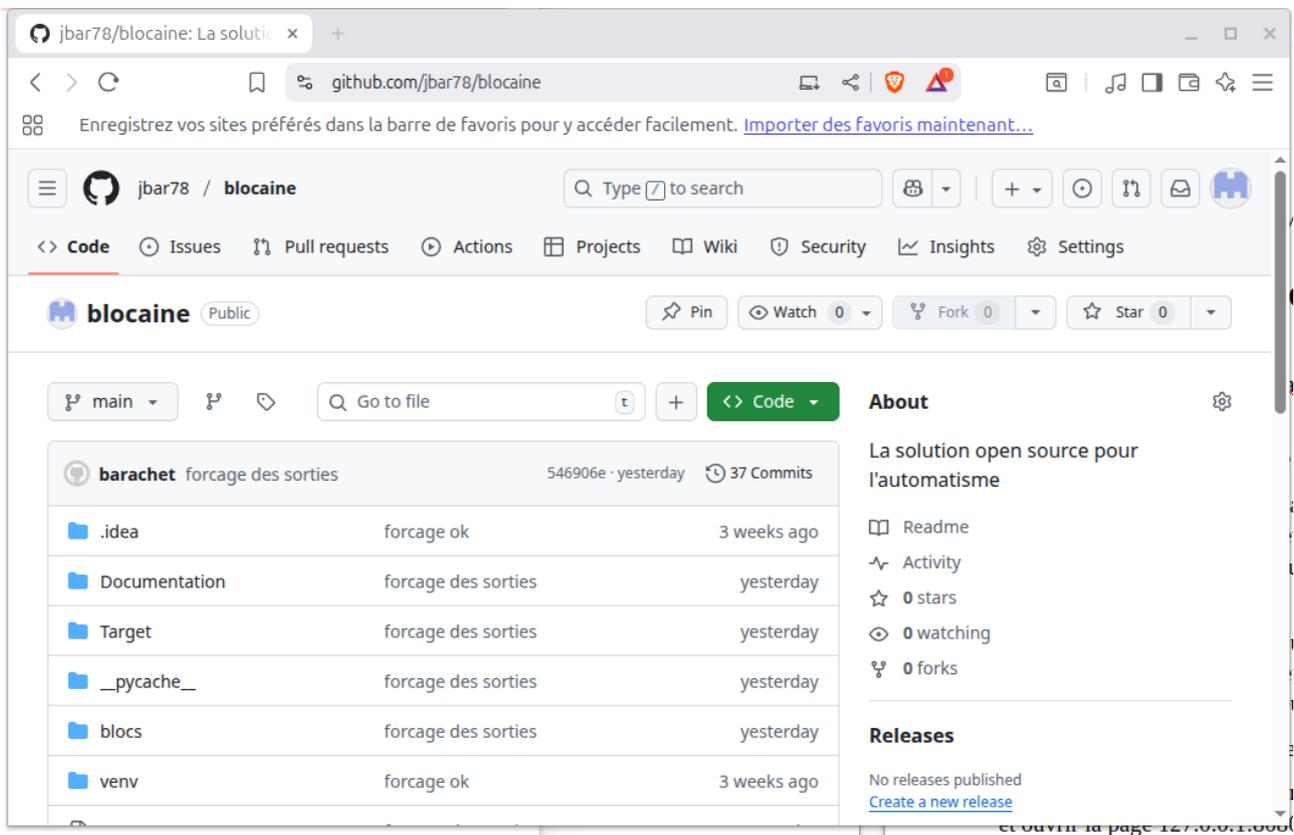
Strictly speaking, there is no real installation process. You simply need to download a ZIP file from GitHub and unzip it. Follow the steps below :

### 3.1 Dwonloading Blocaïne

Using your browser, go to:

<https://github.com/jbar78/blocaïne.git>

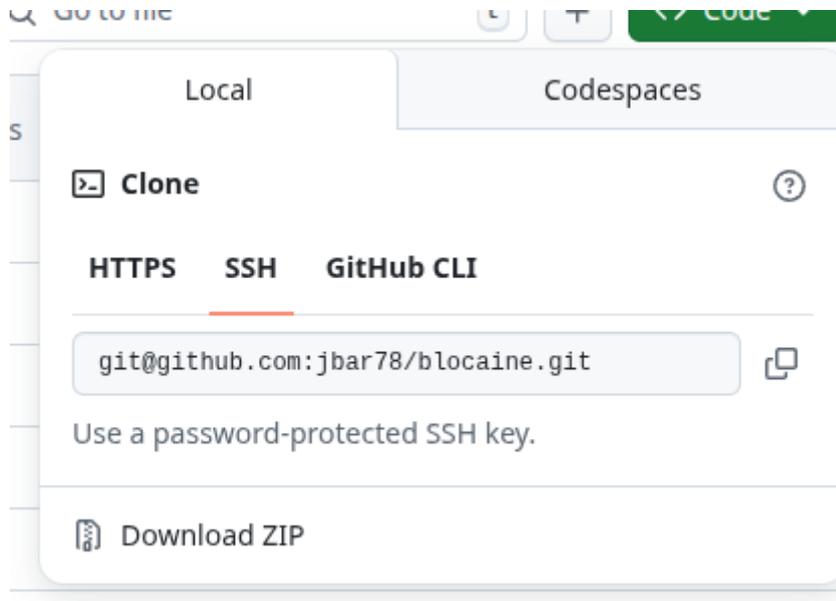
You will arrive on the following page :



Click the main green « code » button.



A popup window will appear. :



Click « Download ZIP », select here you want to save ZIP file and once downloaded, unzip it. you should then have a new directory named «blocaïne-main ».

### 3.2 Installing Python librairies

You must install all Python3 librairies/module used by Blocaïne, such as :

- pymodbus.client

One windows type in the console:

```
pip install pymodbus
```

One Ubuntu type:

```
sudo apt install python3-pymodbus
```

One other Linux type :

```
Python3 -m pip install pymodbus
```

Congratulation, Blocaïne installation is finished !

## 4 Network Configuration

The HTTP and TCP/IP servers within the Blocaïne **interpreter** must use the following IP address:  
127.0.0.1

The file « PARAM\_NETWORK.py » located in both the « projet » directory and the « Target » sub-directory must be identical and contain this line :

```
PARAM_TCP_HOST_IP = "127.0.0.1"
```

## 5 Launching the Blocaïne Interpreter

- On Linux: Open the folder “blocaïne-main/Target” in the file explorer, right-click on “launcher.sh”, then select “Run as a program.”  
The Python3 interpreter will start, and a terminal window will appear.
- On Windows: Open the folder “blocaïne-main/Target”, double-click “main.py.” If the firewall detects new connections, click Allow.
- On Mac: Run “main.py” inside the “blocaïne-main/Target” directory using the Python3 interpreter.

Once launched, the **Interpreter** is operational. You can now open your web browser and go to <http://127.0.0.1:8080> (port 8080) to navigate through the **Interpreter**'s menu

## 6 Launching the Block Editor

- On Linux: Open the “blocaïne-main” directory in your file explorer, right-click on “launcher.sh,” then select “Run as a program.”
- On Windows: Open “blocaïne-main”, then double-click “main.py.”
- On Mac: Run “main.py” in the “blocaïne-main” project directory using Python3

The Python interpreter will start, and both a terminal and the Block Editor's graphical interface will appear. The **Block Editor** automatically connects to the Blocaïne **interpreter**.

You can now create your first **user** blocks, upload them, and execute them in the **interpreter**.

## 7 Uninstalling Blocaïne

Since installation only involves downloading and unzipping a ZIP file to obtain the “blocaïne-main” directory, uninstalling Blocaïne simply consists of deleting the ZIP file and the “blocaïne-main” folder.