Installing the uAgents Framework

System Requirements

Fetch.ai's uagents ↗(opens in a new tab) Frameworks package is a Python library running on Ubuntu/Debian, MacOS, and Windows systems.

On your computer, you may need to install:

- Python ↗(opens in a new tab)
- 3.8+.
- PIP ↗(opens in a new tab)
-
  - the Python package manager.
- Poetry ↗(opens in a new tab)
- for virtual environments (optional).
- uAgents Framework ↗(opens in a new tab)

Install with Pip

1. Create a directory for your agents related project:mkdir directory_name
2. Within the directory, create and open a virtual environment using Poetry:poetry init -n && poetry shell
3. Install Fetch.ai uAgents Framework:pip install uagents
4. Check if installation was successful:pip show uagents

Install from source code

1. Download the latest released version from Github and navigate to the agents directory:
2. git clone https
3. :
4. //
5. github
6. .
7. com
8. /
9. fetchai
10. /
11. uAgents
12. .
13. git
14. cd uAgents
15. Install the required dependencies:
16. poetry install
17. Open the virtual environment:
18. poetry shell

Troubleshooting

It is possible that you may face issues during the installation process. Here, you can find common problems and their solutions.

Problem (MacOS/Python 3.11) :Installing coincurve (17.0.0): Failed

Solution : install the latest versions ofautomake ,autoconf , andlibtool :brew install automake autoconf libtool For any other problems, please let us know by creating anissue ↗(opens in a new tab) .

Simplified Installation for Windows users

Installing the uagents framework on a Windows machine is a straightforward process. The uagents framework is a Python package, so you'll need to have Python installed on your system before you can use it.

If you don't already have Python installed on your Windows machine, visit the official Python website atPython ↗(opens in a new tab) and download the latest stable version of Python for Windows.

Run the downloaded installer executable file (e.g., python-3.x.x.exe).

During installation, make sure to check the box that says "Add Python X.X to PATH." This will automatically add Python to your system's PATH variable, making it easier to use from the command line.

Install uagents library using pip

Once you have Python installed and added to your PATH, follow these steps to install the uagents framework using pip:

1. To install using PIP open your terminal. To ensure that PIP (Python's package manager) is up-to-date, run the following command:
2. python -m pip install --upgrade pip
3. Now, you can install theuagents
4. framework by running the following command:
5. pip install uagents

PIP will download and install theuagents package and its dependencies. Wait for the process to complete. To verify the complete installation explore your terminal. As part of the installation you will see a message showcasing the completion of the installation as well as the exact version.

Development tools

Installing Homebrew

Homebrew streamlines software installations on MacOS via the command line. To install and update Homebrew, execute the following commands:

/bin/bash -c "(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)" You can verify it [here ↗(opens in a new tab)](#) . Let's then ensure Homebrew is updated:

brew update **i** For more information on Homebrew explore their [website ↗(opens in a new tab)](#) .

Installing PyEnv

Now, you need to installPyEnv . It is a simple tool to manage multiple versions of Python. Run:

brew install pyenv Once you have installed PyEnv you can configure the shell environment:

echo 'export PYENV_ROOT="HOME/.pyenv"' >> ~/.zshrc echo 'command -v pyenv >/dev/null || export PATH="PYENV_ROOT/bin:PATH"' >> ~/.zshrc echo 'eval "(pyenv init -)"' >> ~/.zshrc **i** These commands configure your shell environment (specifically theZsh shell) to work with PyEnv. These commands set up environment variables, modify the PATH, and initialize PyEnv so that you can easily manage and switch between different Python versions. You can verify all steps [here ↗(opens in a new tab)](#) . You are now ready toinstall Python if you haven't done it yet. You need to install a version of Python 3.8 or above (for this example, we use version 3.10):

pyenv install 3.10 You can get help or check a command insights by running:

pyenv help Let's now ensure theglobal version of Python you are working with is not the default one in the system. Run:

pyenv global 3.10 # this sets the global interpreter pyenv versions # this verifies if it is set up correctly

Installing Poetry

You now need to installPoetry . Poetry is used for managing Python project dependencies, handling virtual environments, packaging, and publishing Python libraries or applications.

You can install Poetry by running the following command:

curl -sSL https://install.python-poetry.org | python3 - **i** If you would like to learn more about Poetry, visit the [website ↗(opens in a new tab)](#) for further information.

Initialize your project with Poetry

You now have all necessary tools installed. You are ready to initialize your project! Let's create a working directory and initialize Poetry   .

First, you need to create a working directory for your project usingmkdir command. Then, you will need to change directory to this one, usingcd command:

mkdir development/agent-demo cd development/agent-demo You can ensure you are in the correct directory by checking your current path:

pwd

Example output: /Users/Jessica/Documents

If you are happy with the install location for the project, go ahead andinitialize Poetry :

poetry init **i** Follow the setup wizard to provide details including project name, version, author, license, and select dependencies (e.g.,uagents). Once you complete the initialization, run:

poetry install This command will install the dependencies specified in thepyproject.toml file.

Was this page helpful?

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