

# Environmental Setup

## Getting Started:

### Learn:

- Learn Linux/Bash shell basics: [Bash and GitBash for Beginners](#)
- Learn Python basics: [Python Basics Course](#)
- Learn Python Async IO: [AsyncIO Documentation](#)

### Install:

- Install Git Bash shell: [GitBash for Windows](#)
  - Install Python: [Python for Windows](#)
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## Creating a Python Virtual Environment:

### 1. **Navigate/create directory (folder) where the project is**

Navigate/create directory

### 2. **Create the python virtual environment**

Create venv

The command `python -m venv .venv` is used:

- `-m` runs a specific Python module
- `venv` is the module for creating virtual environments
- `.venv` is the name of the directory for the environment

### 3. **Activate python virtual environment**

Activate venv

Inside the project directory (parent of `.venv`), run:

```
. ./venv/Scripts/activate
```

- `.` is shorthand for `source`
- `./` runs a script using a relative path
- `activate` is the script that starts the environment
- You're in the virtual environment if you see `(.venv)` in your prompt

### 4. **Using Python and Pip in a virtual environment**

- Use `.venv/bin/pip` and `.venv/bin/python` to use the environment's versions

### 5. **Running the bot for the first time**

- Run the following commands **inside** the virtual environment:

```
.venv/bin/pip install httpx
.venv/bin/pip install discord
.venv/bin/pip install pyyaml
.venv/bin/pip install audioop-lts
.venv/bin/pip install apscheduler
```

- If you get a "module not found" error, try installing that module with `pip`.

## 6. Deactivating the virtual environment

Deactivate venv

- Navigate to `.venv/Scripts` and run:

```
deactivate
```

- If `(.venv)` disappears from your prompt, it worked.

## 7. Creating a server and bot account

- [Bot Account Creation Tutorial](#)

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