

Adapter & Doppelganger Launcher

This script automates launching the **Java Adapter** and multiple **Python Doppelganger nodes**. It can also **optionally** build the Java project using Maven.

1. Prerequisites

- **Python 3.8+**
- **Java 8+**
- **Maven** (if using *-b* or *-bo*)
- Python package:

```
pip install psutil
```

- On **Linux**: at least one terminal emulator (*gnome-terminal*, *xterm*, *konsole*, etc.).
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2. Configuration

Edit the **config** dictionary in **adapterLauncher.py**:

```
config = {  
    "address": "10.1.212.188",  
    "build": {  
        "enabled": True,  
        "dir": "../adapter2.0",  
        "jar_relative_path": "target/gmv-uc-adapter.jar",  
    },  
    "python": {  
        "script": "../doppelgangers/doppelganger2.0.py",  
        "node_id_ranges": ["6002-6003", "6100-6112", "6030"],  
    },  
}
```

Key	Description	Example
address	Shared IP address	"192.168.1.100"
build.dir	Maven project path	"../adapter2.0"
build.jar_relative_path	Path to .jar inside project	"target/app.jar"

Key	Description	Example
<code>python.script</code>	Path to Doppelganger script	<code>"../doppelganger.py"</code>
<code>python.node_id_ranges</code>	Node IDs/ranges	<code>["6000-6003", "6010"]</code>

3. Usage

Command	Description
<code>python3 adapterLauncher.py</code>	Launch Adapter + Python nodes
<code>python3 adapterLauncher.py -b</code>	Build project first, then launch
<code>python3 adapterLauncher.py -bo</code>	Only build, don't launch

4. Typical Workflow

```
# First build only
python3 adapterLauncher.py -bo

# Launch adapter & nodes
python3 adapterLauncher.py

# Rebuild and launch
python3 adapterLauncher.py -b
```