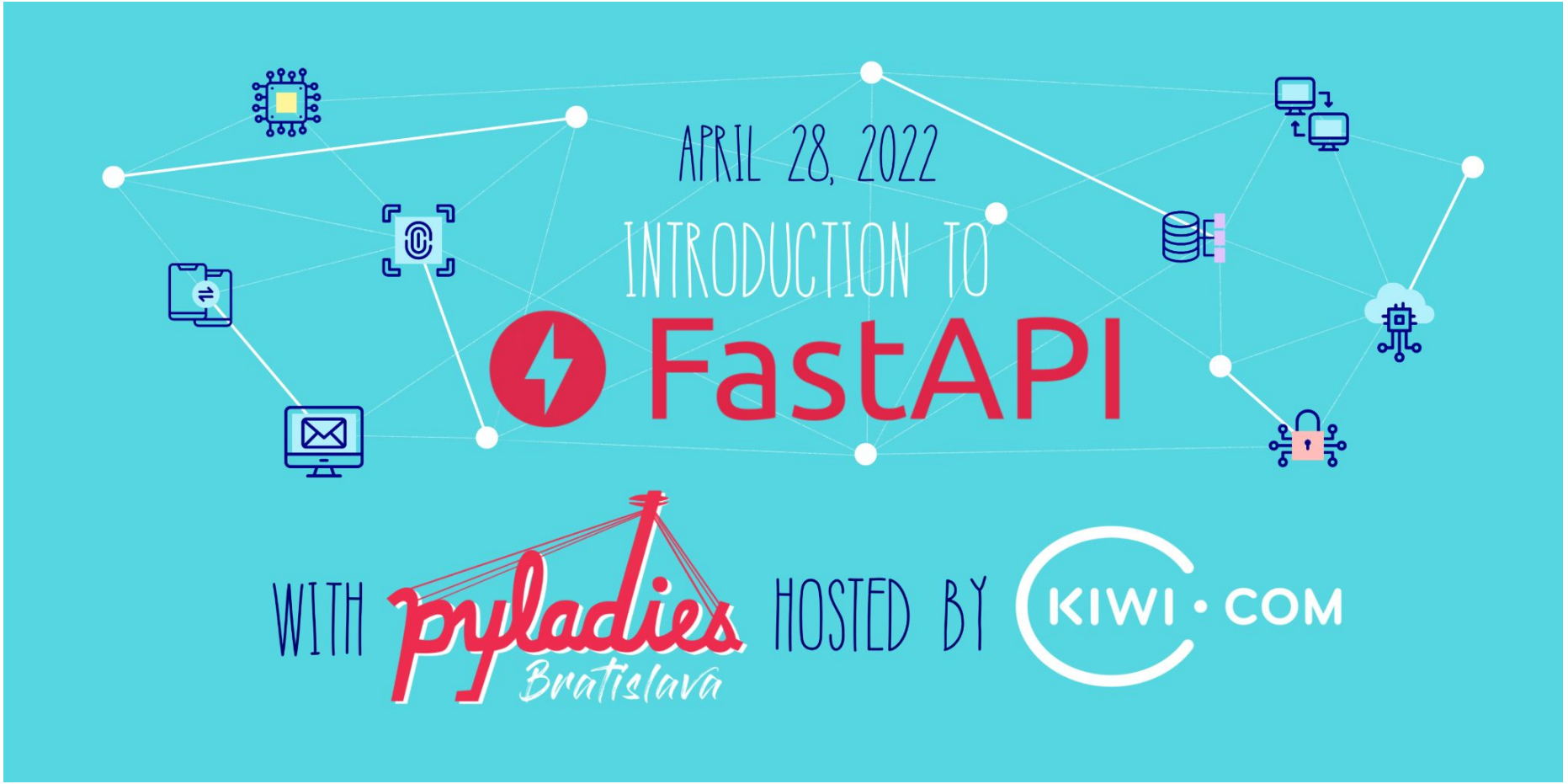

APRIL 28, 2022
INTRODUCTION TO
FastAPI
WITH pyladies Bratislava
HOSTED BY KIWI.COM

Introduction to Pyladies Bratislava

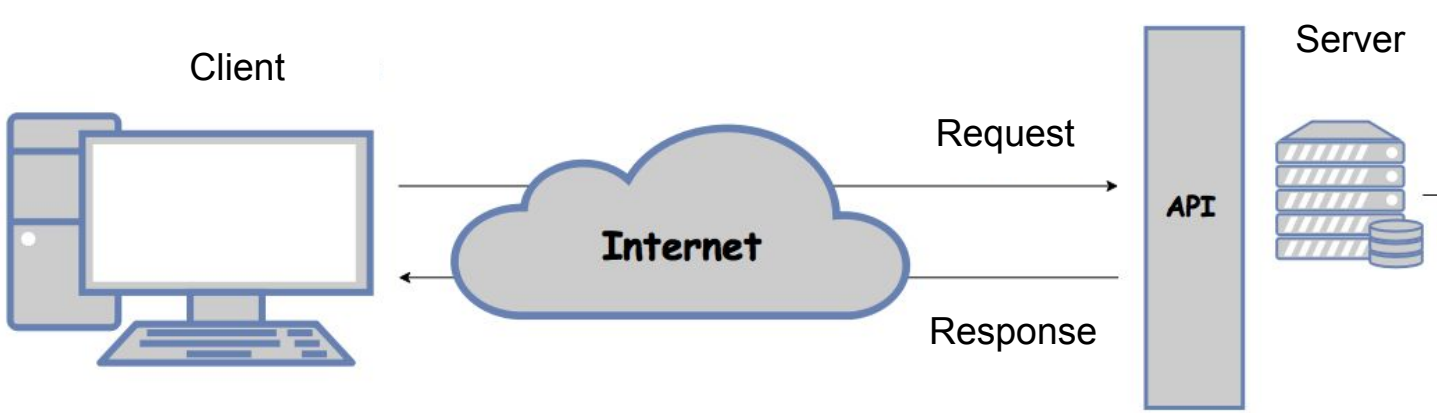
1. Chapter of Pyladies.com
2. Informal
3. The goal is to learn and/or help other learn something
4. Monthly meetups (sometimes more)

Python 3

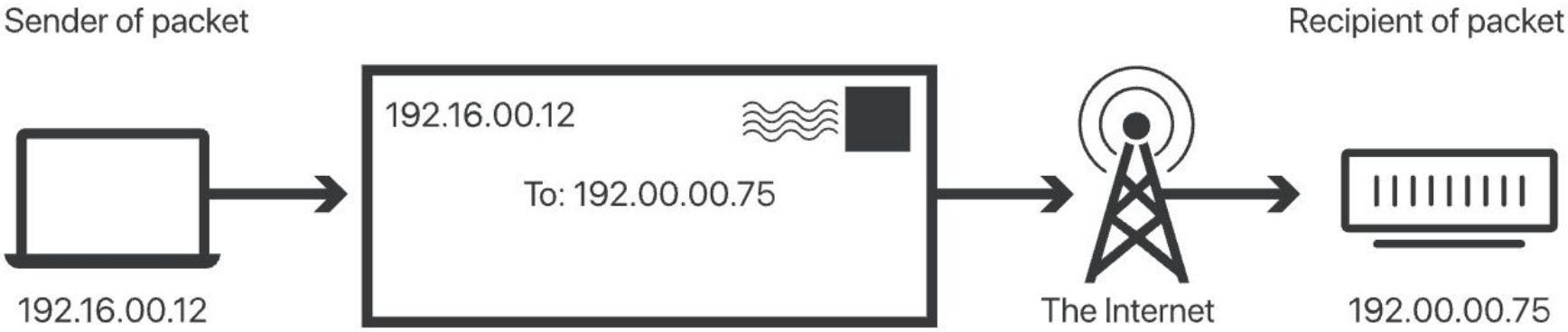
1. Install it
2. Choose an editor: pycharm, vscode, sublime, …
3. Create a virtual environment and activate it (Unix):
    a. `python -m venv .venv (all)`
    b. `source .venv/bin/activate (Unix)`
    c. `.\.venv\Scripts\activate (Windows)`

API - Web API

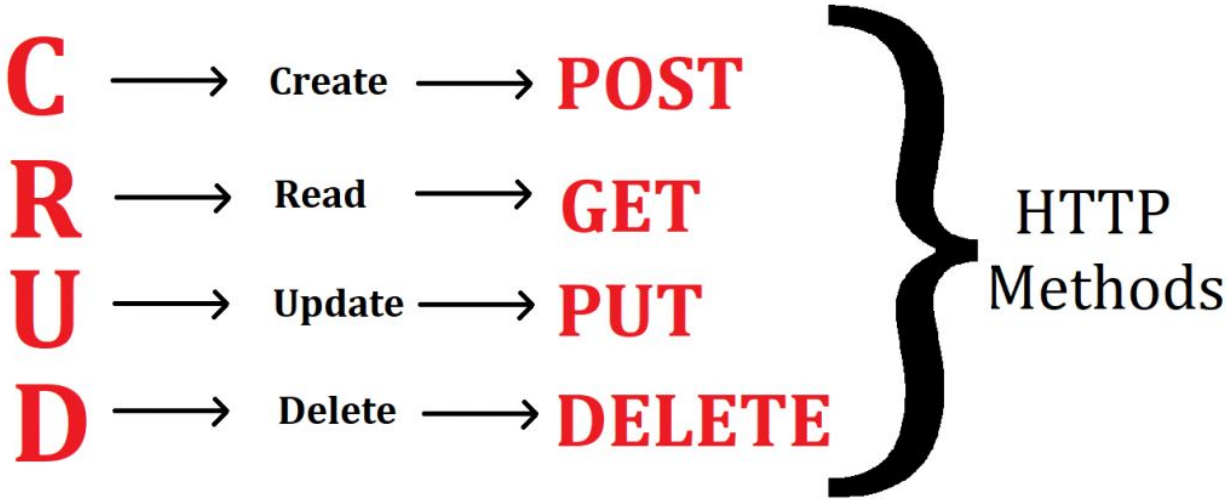
1. Communication between computer programs
2. Communication between computer programs using http:
    a. Client makes a Request
    b. Server sends a Response



API - Web API - Detail



HTTP Methods



Python 3 Web API with FastAPI

- `pip install fastapi`
- `pip install "uvicorn[standard]"` (on Windows `pip install uvicorn`)

Exercise:

1. Write one GET endpoint:
    a. Run the server
    b. Test your endpoint

Testing your API

1. Use the generated docs
    - Go to localhost:8000/docs

2. Use pytest
    - `pip install pytest`
    - Use the FastAPI TestClient

Validation in FastAPI

- Built in validation with Pydantic

Exercise:

1. Write one POST endpoint:
    a. Run the server
    b. Test your endpoint

Exercise

- Make a request go around the table
- `Filipa:  192.168.50.30:8000`
- `Karin:  192.168.50.31:8000`
- `Miroslava:  192.168.50.33:8000`
- `Fatma:  192.168.50.34:8000`
- `Danka:  192.168.50.32:8000`

Virtual environment (troubleshooting Windows)

1. Prepare your environment (Visual Studio Code on Windows)
    a. `python -m venv .venv`
2. In Select Interpreter > choose the newly created environment (.venv)
    a. for this to work I had to do:
    b. find PowerShell app
    c. right-click and select `Run as admin`
    d. write this command: `Set-ExecutionPolicy RemoteSigned`
    e. save with `Yes for all`
3. When the env is activated you see the (<name>) on the beginning of the powershell
4. Now you can install some python packages/libraries > https://pypi.org/
    a. `python -m pip install <package>`