

Bulk download WaPOR data using Python scripts

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WaterPIP
Water Productivity Improvement in Practice



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META
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Access to WaPOR database

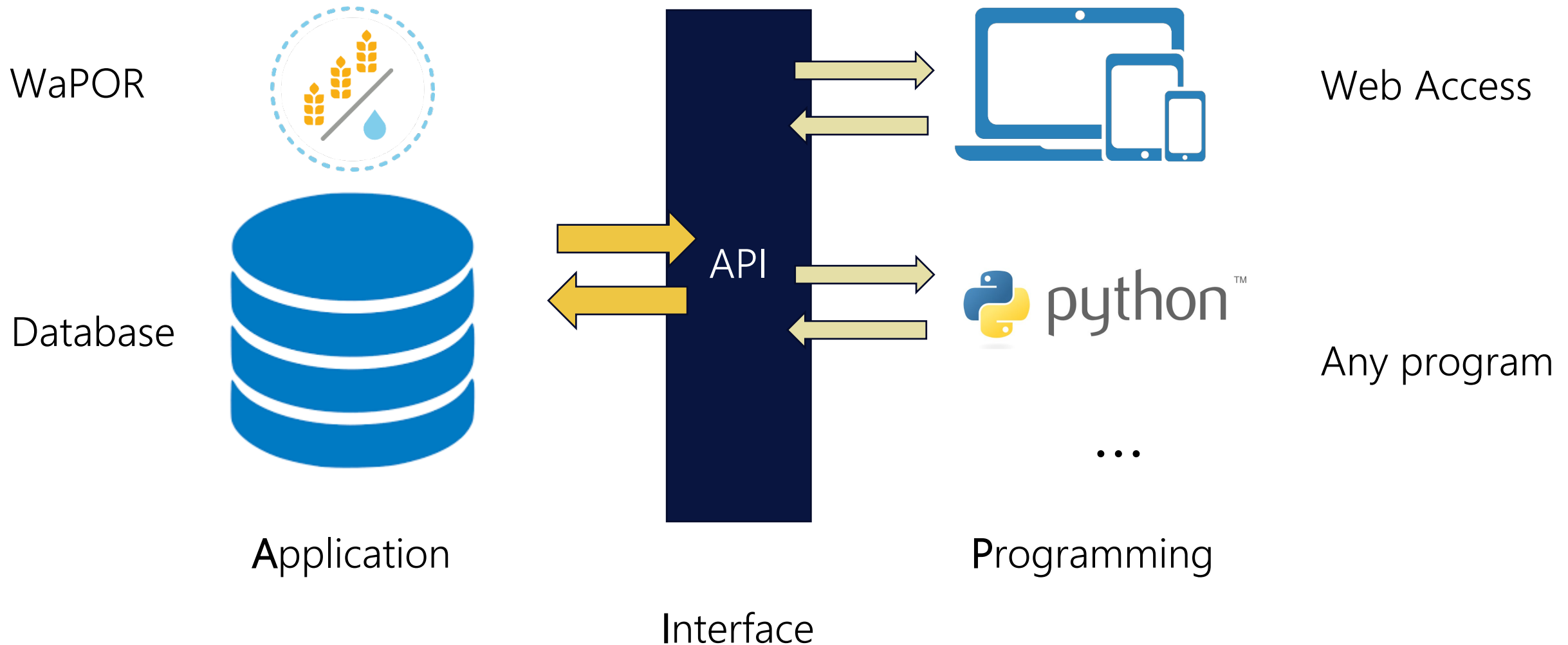
WaPOR portal

- No programming needed
- Ready-to-use
- Easy for downloading a few raster files
- Process and analyze data in GIS tools
- Options:
 - Download a raster of the whole WaPOR layer area
 - Download a cropped raster of a selected area

WaPOR API

- Requires programming knowledge
- Time-efficient
- Download a large amount of data at a time
- Automate processing and analyzing data by scripting
- Python programming:
 - Python packages: [hkvwaporpy](#), [IHEWAwapor](#).

What is WaPOR API?



WaPOR API Token

- Unique identifier associated with your WaPOR account

The screenshot shows the WaPOR profile page. The header includes the FAO logo and 'Food and Agriculture Organization of the United Nations', the 'WaPOR' logo with the tagline 'The FAO portal to monitor Water Productivity through Open access of Remotely sensed derived data', and a home icon. The breadcrumb trail is 'Back to map > My WaPOR > Profile'. A dropdown menu shows 'WaPOR 2.1' and links for 'My WaPOR', 'Info', and 'Feedback'.

The main content area is titled 'Profile' and contains the following sections:

- User info**: A card with fields for 'Country' (Netherlands), 'Institution name' (UN-IHE), and 'Institution type' (Agency of the United Nations). An 'EDIT' link is visible next to the Country field.
- API Token**: A card stating 'You currently have no active API Token.' Below this is a blue button with a plus sign and the text 'Generate API Token', which is circled in red.
- Account deletion**: A card with the text 'You can delete your account by clicking the button'.

An overlay modal titled '+ Generate API Token' is open, containing the following text:

Attention!

This API token is private and **should not be shared.**

You will be shown this token **just once**, so make sure you store it in a safe place.

The generated token is displayed in a text box: `c713752e5c5537b1488d4ac330facaaf931e8ed1827bbb6b3`

Below the token is a blue button with a clipboard icon and the text 'Copy to clipboard'.

Open-source Python scripts

- <https://github.com/wateraccounting/WAPORWP>



wateraccounting / WAPORWP

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Jupyter notebooks on WaPOR based monitoring of water productivity and irrigation performance indicator

wapor waterproductivity agriculture irrigation indicator python-3 Manage topics

8 commits 2 branches 0 packages 0 releases 2 contributors GPL-3.0

Branch: master New pull request

Create new file Upload files Find file Clone or download

AbebeDChukalla The reliability definition is edited

.ipynb_checkpoints	The reliability definition is edited
Data	script is tested
Modules	New

Clone with HTTPS Use SSH

Use Git or checkout with SVN using the web URL.

<https://github.com/wateraccounting/WAPOR>

Open in Desktop Download ZIP



Python requirements

- [Anaconda \(Python distribution\)](#):
 - Python 3.7
 - Jupyter Notebook
- Python packages/libraries:
 - numpy 1.16.4
 - pandas 0.24.2
 - GDAL 2.3.3
 - pyshp 2.1.0



```
Administrator: Command Prompt
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Windows\system32>pip install gdal
```



Active WaPOR API Token



Install Python requirements



Download WAPORWP scripts

Bulk download WaPOR with Python scripts

Live demonstration

WaterPIP

Water Productivity Improvement in Practice

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