

SRC | **Net**

SKAO Regional Centre Network

Permanent URLs for IVOA

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What is a Permanent URL ?

A URL location that will not change

Published URL

<http://www.ivoa.net/path/path/file>



```
openapi: 3.1.0
info:
  title: IVOA Execution Broker
  version: "1.0"
  description: >
    IVOA Execution Broker web service
  license:
    Name: >
      Creative Commons Attribution
      Share Alike 4.0 International
    identifier: CC-BY-SA-4.0
```

What is a Permanent URL ?

Published URL

<http://www.ivoa.net/path/path/file> → **404 Not Found**

Breaks if we move the file

```
openapi: 3.1.0
info:
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    identifier: CC-BY-SA-4.0
```

What is a Permanent URL ?

This is permanent

Published URL

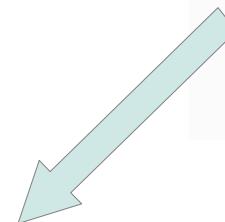
`http://{purl/path}/path/file`



302 Found

Redirect to the real location

`http://www.ivoa.net/{changeable}/path/file`



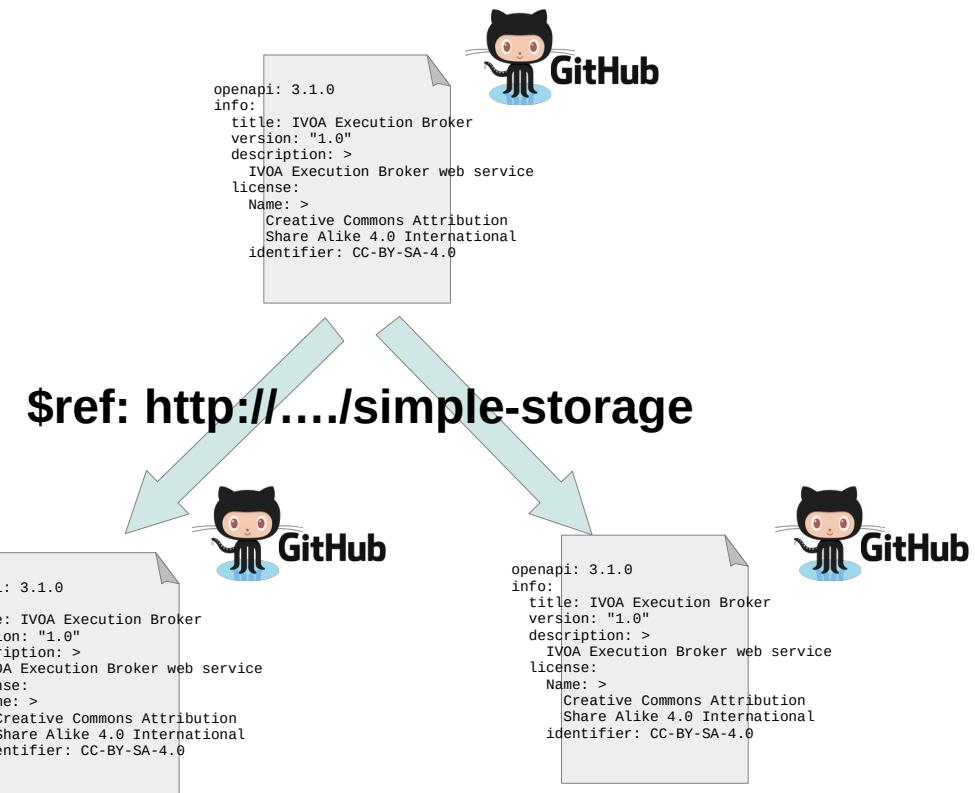
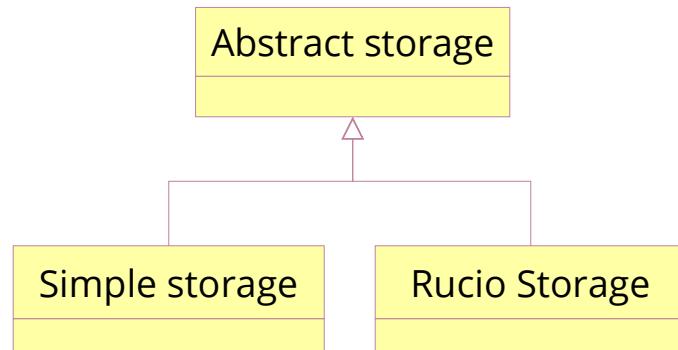
This can move

```
openapi: 3.1.0
info:
  title: IVOA Execution Broker
  version: "1.0"
  description: >
    IVOA Execution Broker web service
  license:
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```

Why do we need them ?

Links to schema components

Split our schema into building blocks

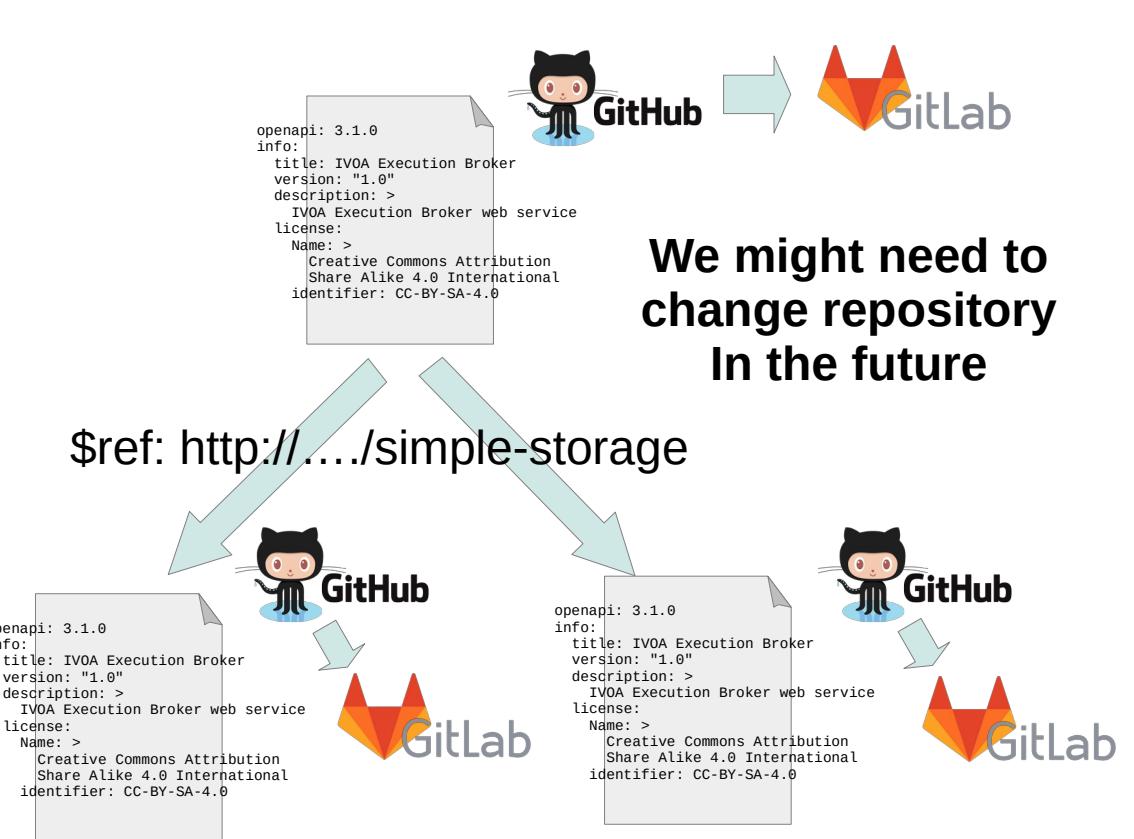
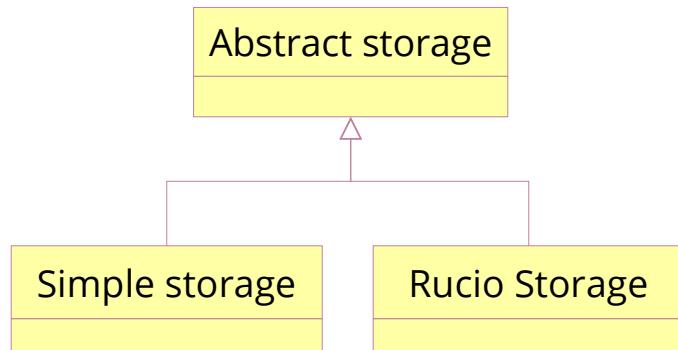




Why do we need them ?

Links to schema components

Split our schema into building blocks



Option 1

Original PURL.org

Provided by the internet archive

**Has had issues with funding
Not as permanent as we would like**

<http://www.purl.org/ivoa.net/EB/{path/file}>

<https://raw.githubusercontent.com/ivoa/Calykopis-schema/refs/heads/main/{path/file}>

<https://www.purl.org/ivoa.net/EB/schema/types/storage/simple-storage-resource-1.0.yaml>

<https://raw.githubusercontent.com/...../types/storage/simple-storage-resource-1.0.yaml>



Option 2

W3c service w3id.org

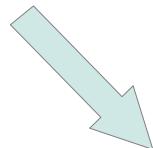
Provided by the w3c permanent identifier community group

**Management consortium created
to provide long term support**

The purpose of this community is to setup and maintain a secure, permanent URL re-direction service for the Web.

This service, located at w3id.org, is run exclusively by members of the W3C Permanent Identifier Community Group.

`http://w3id.org/IVOA/{path/file}`



`http://{new-location}/{path/file}`

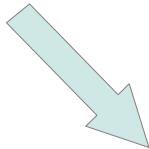
Option 3

Run our own service

We would need

- HTTP web server ✓
- Git repository ✓

`http://purl.ivoa.net/{path/file}`



`http://{new-location}/{path/file}`

Option 3

Run our own service

We would need

HTTP web server



Git repository

Lasts as long as the IVOA

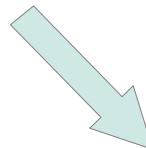


....

Lasts as long as the IVOA



`http://purl.ivoa.net/{path/file}`



`http://{new-location}/{path/file}`