

**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:
  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 ?

**This is permanent**

Published URL

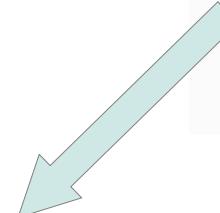
`http://{purl/path}/path/file`



**302 Found**

Redirect to the real location

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



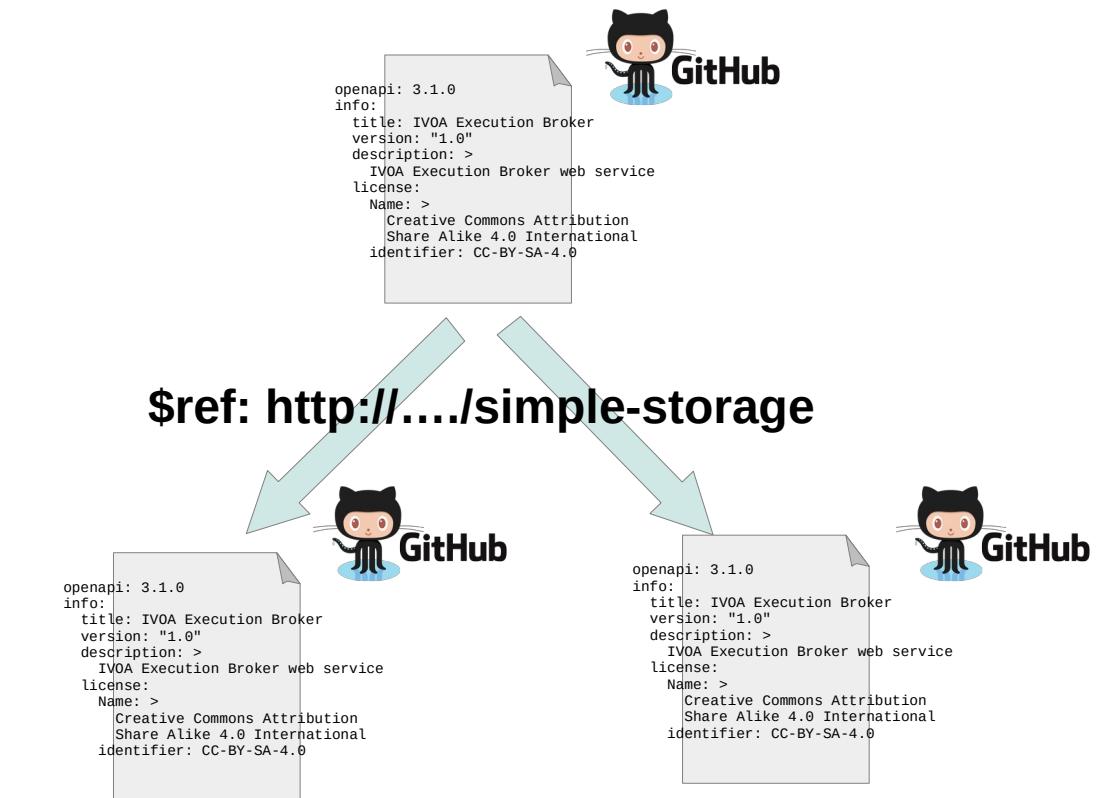
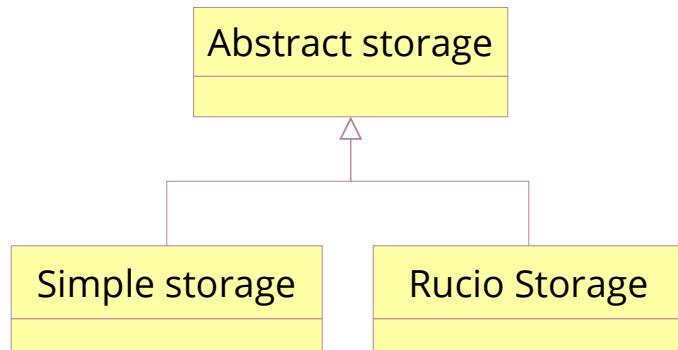
**This can move**

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

# Why do we need them ?

Links to schema components

Split our schema into building blocks

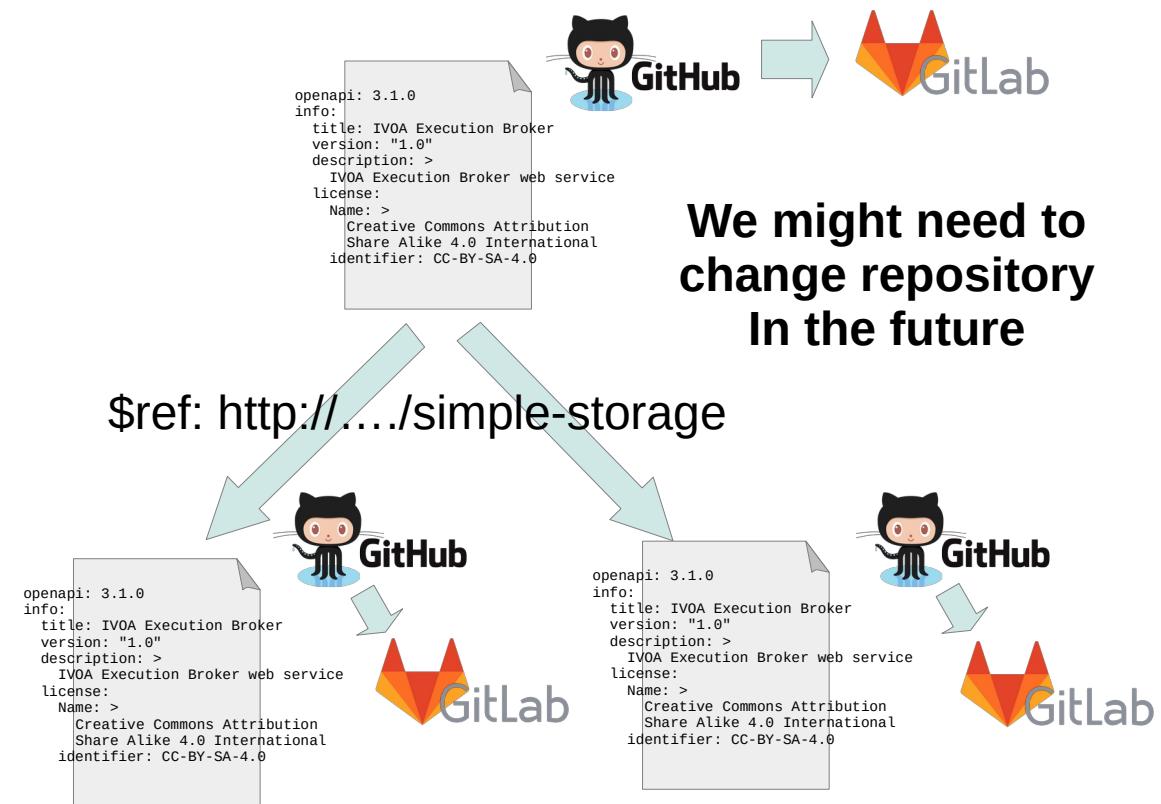
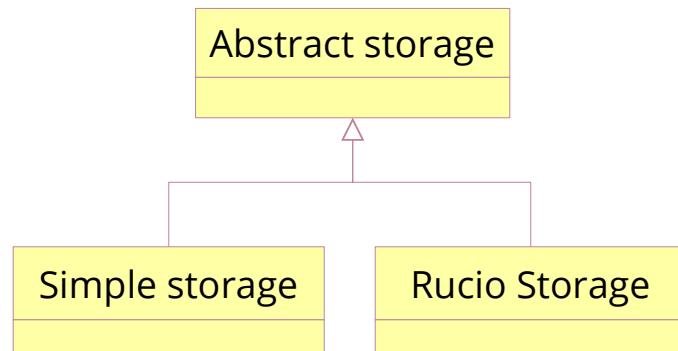




# Why do we need them ?

Links to schema components

Split our schema into building blocks



We might need to  
change repository  
In the future

# 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/...../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

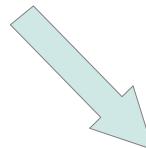
Provided by the w3c permanent identifier community group

**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}`

**Lasts as long as the w3c**



# Option 3

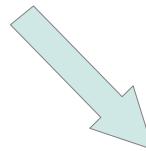
## Run our own service

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

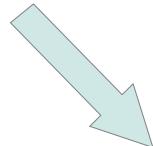


....

Lasts as long as the IVOA



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



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