Wide Field Astronomy Unit (WFAU)
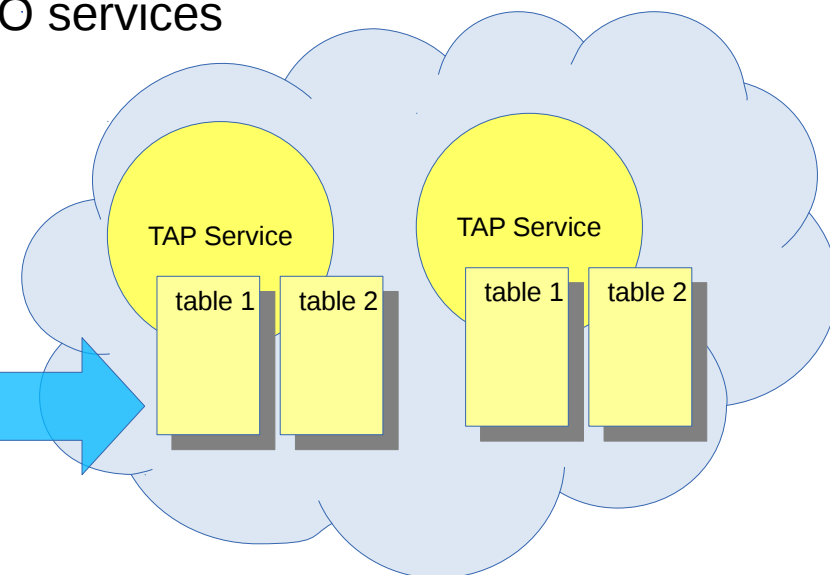
Virtual Observatory
Data Access

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April 2014

Internal architecture

User interface

web.py
python
service

ADQL

Firethorn
Metadata

OGSA
DAI

VO services

TAP Service

table 1   table 2

TAP Service

table 1   table 2

Local catalogs

Database

table 1   table 1

Database

table 1   table 1

User
data

table 1   table 1

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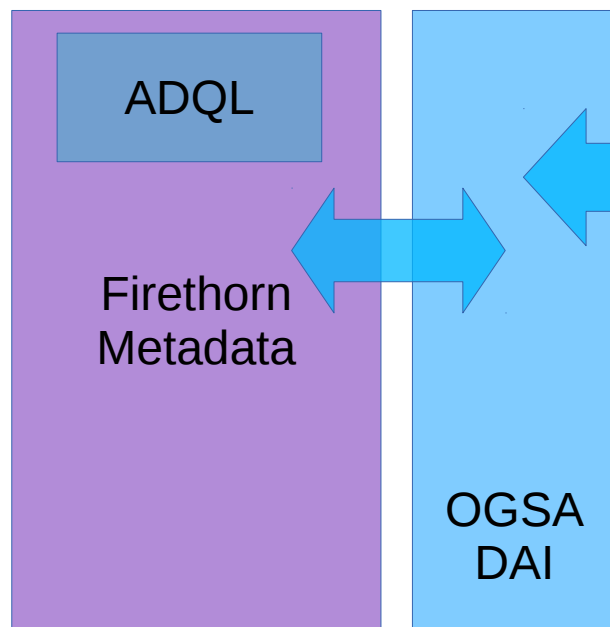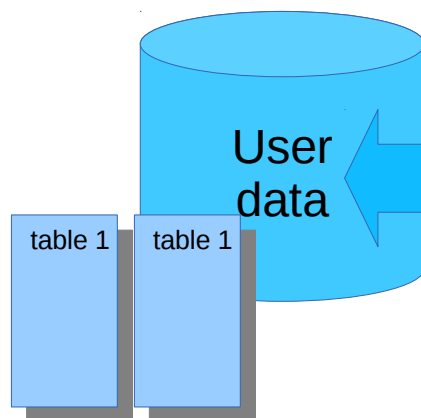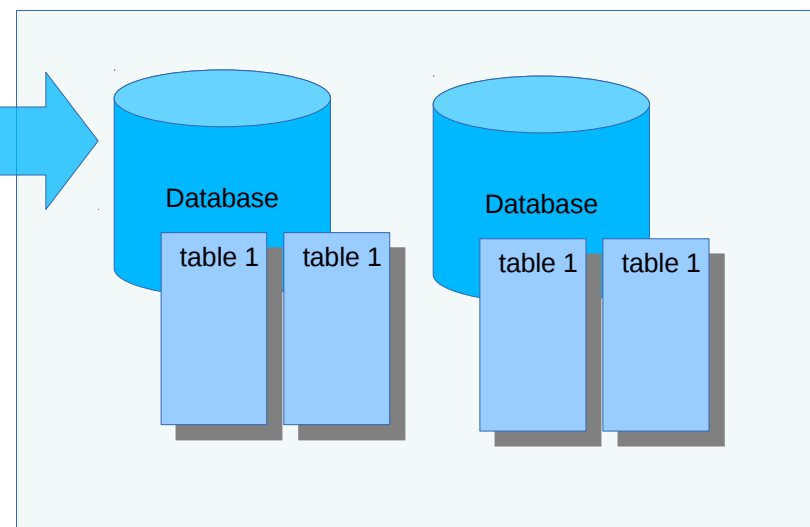
What is it all for ?

Publishing our data into the cloud

"the cloud"

International Virtual Observatory

http://www.ivoa.net/
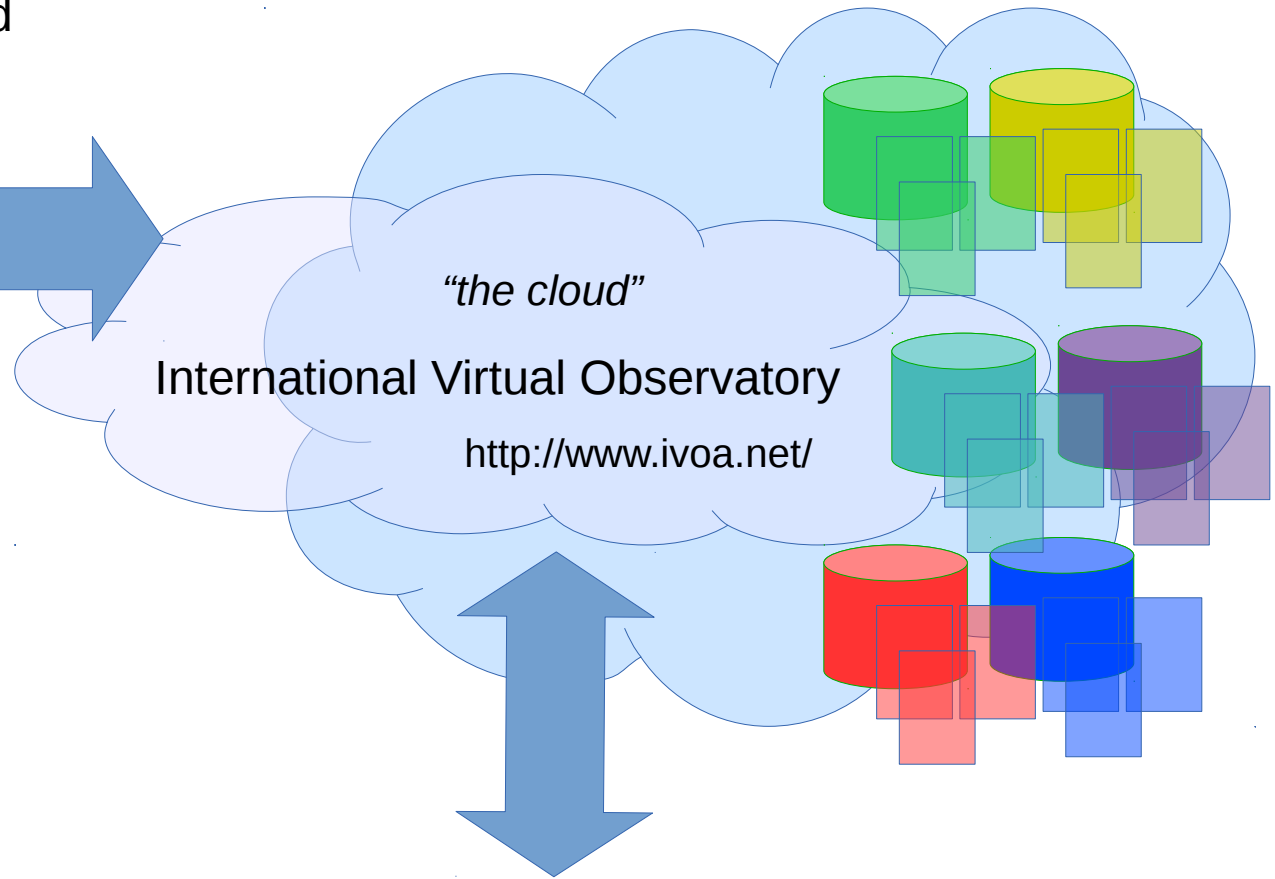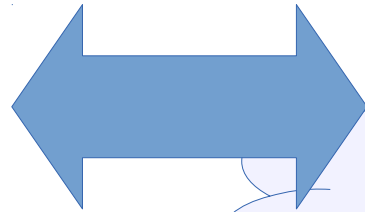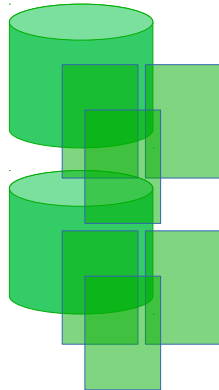
Access to other people's data from the cloud

[our data] + [their data] => [interesting stuff]

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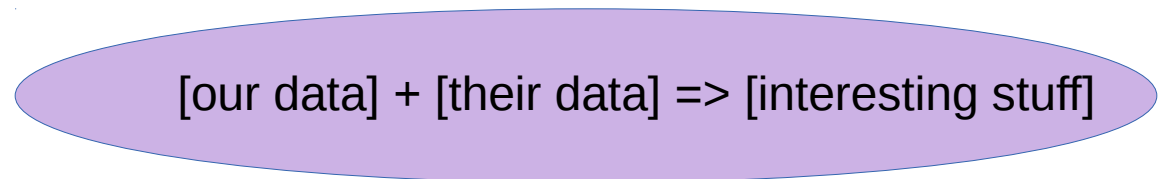
Successes:
- Atlas OSA ADQL queries - in place and working
- Test connection to external VO data :-)

Opportunities:
- Influence the VO and IVOA standards (no one else has done this yet)

Failures:
- Problems with testing SQL/ADQL compliance
- Limited progress on VO side of the project

Threats:
- Verifying full ADQL/SQL correctness is open ended
- Two different projects with different priorities

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Concerns:

- WebPy support – active open source community

- ADQL is too limiting - we are involved in defining and evolving the standard. However change takes time and consensus.

- Incompatible with SQLServer – we are getting there, ongoing process of identifying and resolving the issues

- Performance issues – work in progress, some already in place, more to come

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