

# Grid and Web Services Working Group

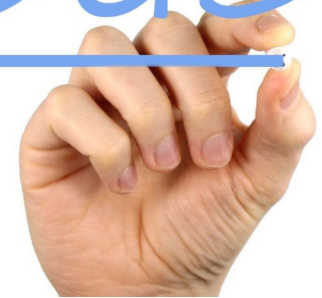
IVOA Virtual Interop – on line 2021a

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# GWS hot topics for this virtual Interop

FOCUS



- Science platforms for simulations workshop in collaboration with Theory IG
- VOSpace, Auth&Authz



# Science Platforms for Simulations

## Science platforms challenges

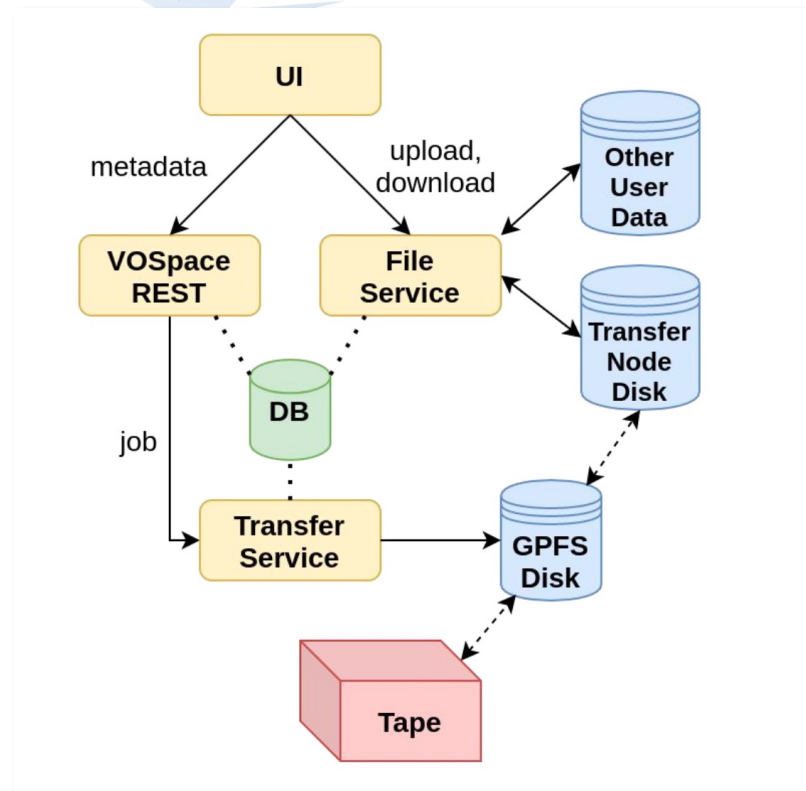
- What is necessary for users to reuse someone else's simulations? Do we want to?
- Sharing simulations means we want to provide access to data, computing, storage
- Authentication and Accounting: server-side computation not always available
- Data inhomogeneity: can we get common file formats?
- How can I use my own software? Can I deploy my container?

- Extremely useful.
- Large participation (including scientists and SP developers)
- Large “contamination”



# VOSpace new implementations and possible updates....

- New properties (e.g. asynchronous transfer, sticky nodes)
- New protocols
- Some questions (size of Folders)
- Integration with GMS and Tokens



# VOSpace actions

- Short term interaction to update standard
- Focusing immediately to what we can easily implement (e.g. properties)
- First meeting 1st June 😊



# Auth&Autz

- We have 3 interconnected but independent standards
  - GMS, SSO, CDP
- GMS → PR

## 1 - Group identified by param, not path

For check single group membership, was:

```
HTTP GET to /gms/search/{groupName}
```

Now:

```
HTTP GET to /gms/search?group={groupName}
```

Reasons:

- Can't implement with UWS because the path after 'search' is used by UWS (sync, async, etc..)
- Allows extensions of GMS to be extendible (by future GMS versions or custom extensions).



# SSO

- We had a useful discussion and we implement a set of actions:
  - Regular meetings for a few months to progress...

## A Brief History of Tokens

- Auth Lessons, Markus Demleitner, October 2019  
<https://wiki.ivoa.net/internal/IVOA/InterOpOct2019DAL/authlessons.pdf>
- Gaia Authentication, Juan Gonzalez, October 2019  
[https://wiki.ivoa.net/internal/IVOA/InterOpOct2019DAL/GACS\\_Auth\\_jgonzalez.pdf](https://wiki.ivoa.net/internal/IVOA/InterOpOct2019DAL/GACS_Auth_jgonzalez.pdf)
- Auth Strawman, Patrick Dowler, May 2020  
<https://wiki.ivoa.net/internal/IVOA/InterOpMay2020GWS/auth-reqs-strawman.pdf>
- OAuth2 Lessons & GMS, Sonia Zorba, November 2020  
<https://wiki.ivoa.net/internal/IVOA/InterOpNov2020GWS/GMS-OAuth2-update.pdf>
- Non-browser OAuth2, Brian Major, November 2020  
<https://wiki.ivoa.net/internal/IVOA/InterOpNov2020GWS/TokensForCLI.pdf>
- Authentication Implementation Report, Mark Taylor, November 2020  
<https://wiki.ivoa.net/internal/IVOA/InterOpNov2020GWS/auth.pdf>

May 2021: Progress! (sorry if I missed anyone)



# Thanks for your attention.

We had a productive “virtual” 2021 Iterop!

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