Grid and Web Services Working Group

IVOA Virtual Interop – on line 2022a

Giuliano Taffoni - Christine Banek

GWS agenda at Interop

Schedule Summary						
Session	**DateTime UTC**	**UTC+02:00**	**UTC-04:00**	**UTC-07:00**	**UTC+08:00**	**UTC+10:00**
		Strasbourg	*Washington DC*	*Victoria BC/Pasadena*	*Perth/Beijing*	*Canberra*
GWS 1	Apr 27 05:00	Apr 27 07:00	Apr 27 01:00	Apr 26 22:00	Apr 27 13:00	Apr 27 15:00
GWS 2	Apr 29 13:30	Apr 29 15:30	Apr 29 9:30	Apr 29 06:30	Apr 29 21:30	Apr 29 23:30

- GWS1 is focused on
  - ExecutionPlanner
  - Science platforms
  - SSO

- GWS2 is focused on
  - VOSpace ➔ *IA2 will also discuss how to assign DOI to product in VOSpace…*
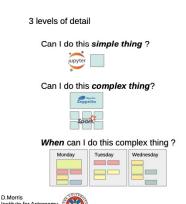 - Discussion

GWSWG: Session 1

Dave Morris: ExecutionPlanner – WhenCanIDoThis

- is a HTTP webservice interface
  that provides a simple way
  to discover and access
  computing services.

Sara Bertocco – IVOA in ESCAPE ESAP

- ExecutionPlanner, UWS etc

3 levels of detail

Can I do this *simple thing* ?

Can I do this *complex thing*?

When can I do this complex thing ?

Monday	Tuesday	Wednesday

D.Morris
Institute for Astronomy,
Edinburgh University

Query multiple archives with an adaptable interface

Load software from the ESCAPE repository

Built with Python, Django, and React

Data orchestration across multiple services

Interactive Data Analysis through BinderHub services

Demo system
https://sdc-dev.astron.nl/esap-gui

GWSWG: Session 1

Mark Taylor - Authentication for Non-Browser Clients

- SSO next generation

SSO_next Proposals

Summary (SSO_next wiki page, main author Pat Dowler):

- Communicate auth info using only RFC 7235-style WWW-Authenticate challenges
  - ▷ securityMethod elements in capabilities document no longer required
- Introduce VO-specific ivoa_* authentication schemes that can carry additional metadata:
  - ▷ access_url: where to login
  - ▷ standard_id: how to interact with access_url
- Provide authentication confirmation
  - ▷ X-VO-Authenticated header SHOULD appear in authenticated responses
- Specify how to determine service authentication requirements
  - ▷ /capabilities endpoint HEAD/GET response is 200/401(/403) with or without WWW-Authenticate challenge(s)

Impact on standards:

1. VOSI augmented to require HTTP HEAD support for /capabilities endpoints
2. SSO augmented to define ivoa_bearer, ivoa_cookie, and ivoa_x509 challenges
3. SSO ivo://ivoa.net/sso#tls-with-password extended to specify the form params
4. SSO challenges describe/specify response form of login endpoint (access_url), possibly including x-vo-bearer response header
5. SSO requires/recommends authenticated services to include x-vo-authenticated header in all authenticated responses
6. Modify VOSI to allow /capabilities to respond with 401 (or 403) *(also affects TAP 1.1 sec 2; & others?)*

Mark Taylor, Authentication for Non-Browser Clients, IVOA Interop, Online, 27 April 2022   4/11

GWSWG: Session 2

Nicola Calabria – INAF VOSpace: current status and future developments

- DOI and the immutable data

In the standard properties section it would be useful to add something like the following:

- `ivo://ivoa.net/vospace/core#immutable` : SHALL be used as the property URI denoting a node that can't be deleted or moved but whose metadata can be edited

Discussion and priorities: contribution to GWS 2022 roadmap…

Thanks for your attention.

We had a productive "virtual" 2022a Iterop!

Subscribe to grid@ivoa.net
http://ivoa.net/members

Slack channel: ivoa.slack.com #grid-webservices