

Grid and Web Services Working Group

IVOA Interop - Paris 2019

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GWS Session



- CAS (Central Auth Service) at Data Central - SSO with 5 different auth methods.
- INAF RAP (Remote Auth Portal) in SKA Context --
open source and useful
- Group Membership Service: Productive "User Identities" discussion
- Kubernetes has a big upside! Will eventually be overcome, but commercially supplied migration tools will help.

TAP and Authentication Sesion



TAP 1.1 success! For Grid and Web Services:

- **New SSO** version to start. 2.1 or 3.0 ?
- Fully describe use and support for **tokens**.
- Reevaluate list of supported authentication methods.
- Minor corrections.

Remote Execution Standardization



- IVOA Protocols already address data access -- we just need to make that access as local as possible

In addition to HTTP access, we will need POSIX access. Should we use VOResource Interfaces to define this? type:"vos:posix"

Remote Execution Standardization



- How to send data algorithms to a data centre?
Container Registry?
- How to describe resource requirements and input parameters?
I/O, CPU reqs not discussed. Params not discussed. Prototypes needed.
- How to insulate platforms from rapidly changing technologies?
Defer this until we have working prototypes and clearer big view.
- How to integrate with commercial cloud platforms?
Use the same infrastructure -- kubernetes

Science Platforms Roadmap



- Go Kubernetes. Data centres will be running services as containers. Natural step to run user code in containers. Standards after more experience.
- Try remote executing a container. What infrastructure and information did you need? What problems did you face?
- Describe POSIX access to a platform. New VOResource Interface Type?
- Collaborate. Share knowledge, code and resources with similar institutes. Organic convergence.

Other Interesting Ideas



- VO Container Registry? For reference implementations and code-to-data experimentation?
- Who will pay? Treat processing (GPUs, etc) as scarce resources, like observing time. Data centres gather funds for new 'observatories' and accept proposals. Multi-centre proposals?
- Is the next step for SODA (Server-side Operations For Data Access) code-to-data support? (a spectrum of operation complexity)

Thank you for all the contributions.

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