GWS Working Group Closing

Jesús Salgado & Sara Bertocco

DAL/GWS Protocol Transitioning Tiger team (P3T)

- Hard work during last months (Joshua, Pat, Dave, Russ, Brian, Janet…)
  - UWS
  - ExecutionBroker
- Technical improvements proposed and 3 steps for VO protocols
- See Janet's review

```
2.2.3.1. Getting the Pet List

The list of pets available in the Pet Store may be retrieved by sending a GET request to the endpoint /pets. In this case, the query parameters that may be included in the request are LIMIT, which restricts the number of pet items returned, and STATUS, which allows the client to specify a filter based on the current availability of the pets. The status parameter accepts the values "AVAILABLE", "PENDING", or "SOLD". The response to this request will contain a JSON array of pet objects, each representing a distinct pet record in the system.

Upon successful retr
"OK", and the respon
representation of th
if any. The server m
Request" status code
invalid (for example
negative).
```

```
2.2.3.1. Getting the Pet List

A client may access the list of pets in the Pet Store by initiating a GET request to /pets. Clients can include optional query parameters in the request to influence the returned data. These parameters include QUANTITY, which specifies the desired count of pet items in the response, and STATE, which allows clients to specify a filter based on the current state of the pets, accepting values such as "ACTIVE", "RESERVED", or "SOLD". The server's response will include a JSON-formatted array of objects, each representing a pet with various attributes.
```

```
  - pet
summary: List all pets
description: Returns all pets from the store
operationId: listPets
parameters:
  - name: limit
    in: query
    description: How many pets to return at one time (max 100)
    required: false
    schema:
      type: integer
      format: int32
  - name: status
    in: query
    description: Filter pets by status
    required: false
    schema:
      type: array
      items:
        type: string
        enum:
          - available
          - pending
          - sold
responses:
```

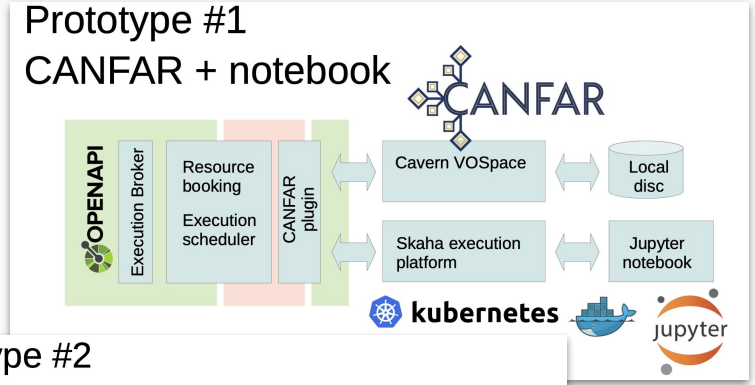
```
  - pet
summary: List all pets
description: Returns all pets from the store
operationId: listPets
parameters:
  - name: quantity
    in: query
    description: How many pets to return at one time (max 100)
    required: false
    schema:
      type: integer
      format: int32
  - name: state
    in: query
    description: Filter pets by status
    required: false
    schema:
      type: array
      items:
        type: string
        enum:
          - active
          - reserved
          - sold
responses:
```

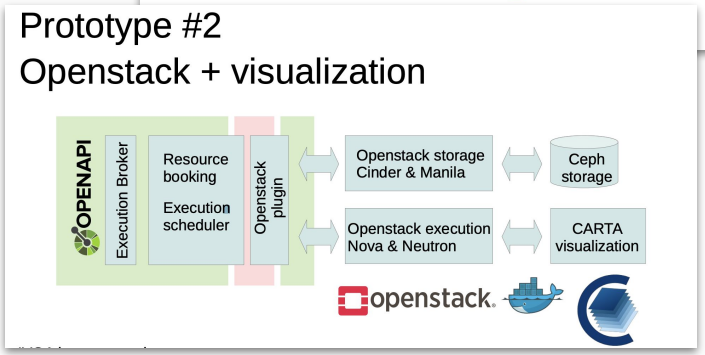
GWS WG Session

Speaker	Title
Dave Morris	Execution Broker Update
Yan Grange	Software Discovery Characterisation
Brian Major	Image Metadata for Interoperable, Container-based Science Platforms such as CANFAR
James Tocknell	SSO-next-based approach to allowing non-browser-based VO clients to use OAuth 2.x/OIDC
Sara Bertocco	SSO-next open discussion

Execution Broker

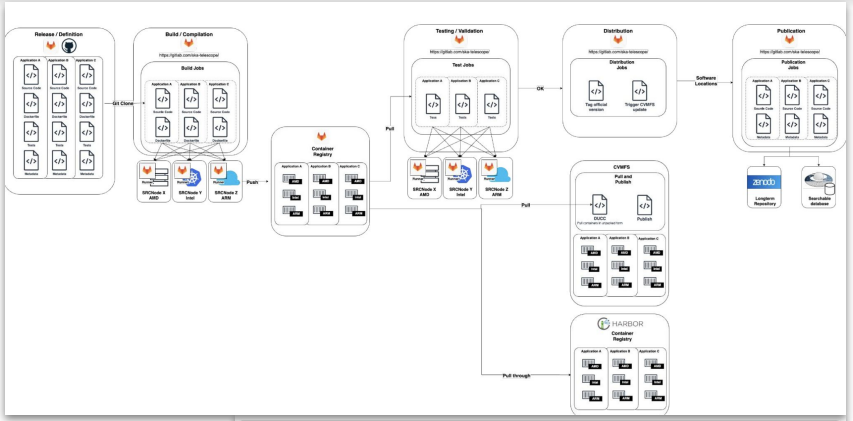
- Good state of the standard
- Two prototypes related with SRCNet to test the approach:
  - Science Platform
  - Openstack-CARTA visualisation
- Several “plugins” expected for different types of infrastructure
- Analyse HPC support (slurm clusters)





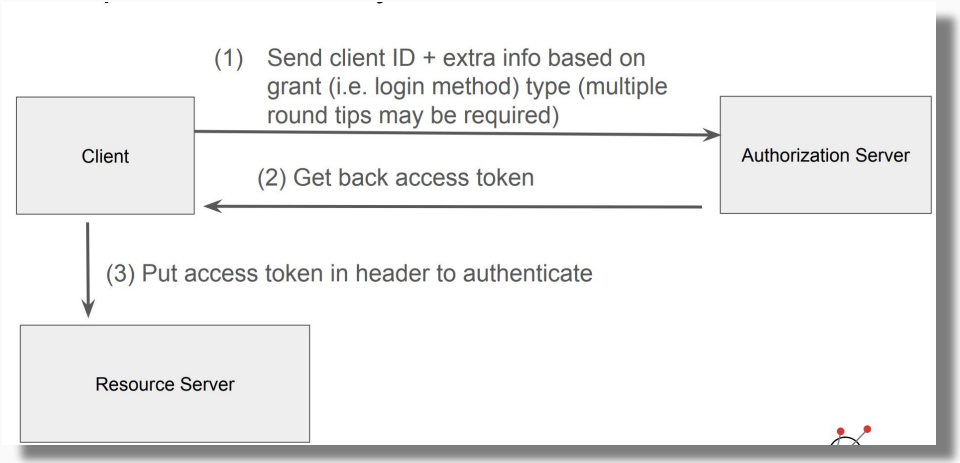
Software Discovery and Transport

- Two presentations:
  - Yan Grange (CodeMeta and software metadata)
  - Brian Major (CANFAR)
- Different Software stacks could allow the software discovery and transport
- Two open issues:
  - Specific metadata like profiling and scientific discovery
  - Security for software repositories (whitelists)



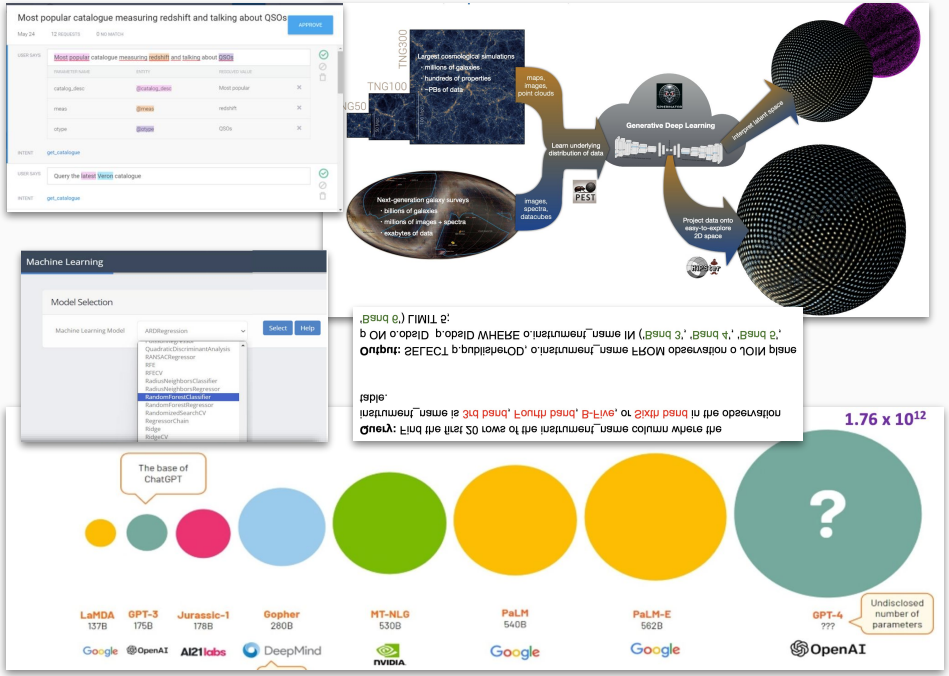
SSO-next

- Two presentations:
  - James Tocknell (how to allow non-browser based to use OAuth 2.x/OIDC in VO)
  - Sara Bertocco (SSO-Next)
- New version of SSO is needed to upgrade technologies
- This could have impact if we want to provide federated authentication in VO
- IVOA IAM? Endorse note?



KDD/GWS AI in Astronomy

- Presentations on language models, classification, software to simplify use of ML techniques…
- New technologies and ways to work are emerging and astronomy is a scientific area optimal for it, in particular for big data missions
- Data exploitation could not be fully obtained without these techniques
- Requirements on hardware resources are quite high!
- See Yihan's summary



Thanks!

Contact us:

grid@ivoa.net