Grid and Web Services Working Group

IVOA Interop - Groningen 2019

Giuliano Taffoni - Christine Banek

GWS hot topics for this Interop

- Authentication and Authorization

- Science platforms

- Remote execution

FOCUS

Authentication and Authorization

Again?????

Authentication & Authorization

- Complex and continuously evolving

- Affects trasversally more topics (DAL, Apps, SciPlat, Remote Exec...)

- Different solutions

Authentication & Authorization

- **Group Membership Service** Working Draft (Talk on Friday)

- Should we go for **SSO 3.0**? Yes but we need best practices: Note(s)

- Are we going to use "tokens" intensively?

- `SecurityMethod to` integrate and to extend with "annotations"

- What about the "Credential delegation"? Can we use a token delegation?

Science Platforms

- BoF @ ADASS

- How can we make them interoperable?

- How can we guarantee sustainability?

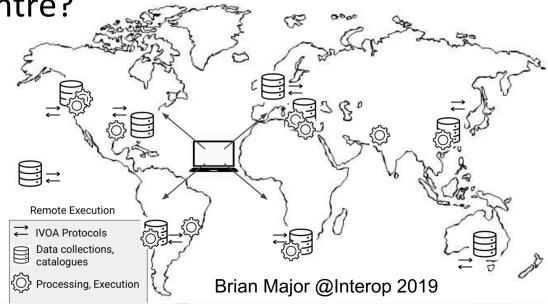- What is the role of IVOA standards?

- Do we need we new standards?

A&A role

Remote Execution

- How can a data scientist coordinate a workflow that uses processing resources at different places?

- How can a distributed workflow be reproduced?

- How can a data scientist schedule her container on this Data Centre?

Remote Execution

⇄ IVOA Protocols

🗄 Data collections, catalogues

⚙ Processing, Execution

Brian Major @Interop 2019

Remote Execution

- A Remote Execution ecosystem:
  - Discover the platform (resource requirements + params)
  - Discover the software (container registry?)
  - Data discovery also at file system level
  - Off-line data transfer to "close" resources
  - Schedule "that" container remotely

- Data Lake with computing islands: what is closer to me?

A&A role

GWS Session

GWS (Friday October 11, 2019, 13:30)			
Speaker	Title	Materials	Time
Giuliano Taffoni	Introduction and Science Platform BoF summary		5'
Christine Banek	The State of pyVO		15'
Simon O'Toole	Running data pipelines using remote desktops and Apache Guacamole		15'
Brian Major	Arcade prototype platform		15'
Petr Skoda	VO-CLOUD science platfomr		15'
Sonia Zorba	Challenges on implementing token-based A&A		15'
	DISCUSSION		10'

Science platforms and remote execution

GWS and DAL session

DAL & GWS joint session

AuthN/AuthZ next steps & caproles discussion			
Saturday October 12, 09:00-10:30, Student hotel			
Speaker	**Title**	**Time**	**Material**
Brian Major	GMS status report	15'	
Brian Major	YouCat & TAP	15'	
Markus Demleitner	Interoperable Authentication: Lessons learned from pyVO's TAP client	15'	
Juan Gonzalez	Cookie authentication for the Gaia Archive	15'	
	Discussion on **caproles**	30'	

Auth&Authz experience and ideas

Thanks for your attention.

Have a productive "short" Iterop!

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