Global VO Configuration for new VOs

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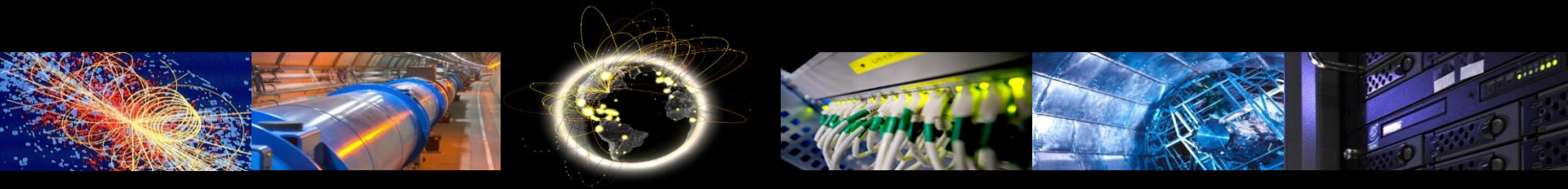

Overview

- Context
- VO information sources
- CA distributions
- For discussion

Context

- We (e.g. GridPP) have seen an increased likelihood that EGI sites may want to run work for OSG VOs

- A key area of importance in supporting VOs is the accurate and timely updating of VOMS information
  - Where is the information for this found?
  - Could we do anything to make VOMS updates for sites more streamlined when using new communities?

Context

- Some of this came through recent experience working with this data at the RAL Tier-1

- Hope to gather the current situation in this talk

Types of information

- VO information
- Resource and topology information
- CA trust anchors

EGI

- VO information
- https://operations-portal.egi.eu
- VO information added via web interface
- API available to read data
  - http://cclavoisier01.in2p3.fr:8080/lavoisier/views

EGI

- Topology and resources information
- https://goc.egi.eu
- Updates made via web interface
- API available to read data
  - https://wiki.egi.eu/wiki/GOCDB/PI/Technical_Documentation

OSG

- VO information
  - https://github.com/opensciencegrid/osg-vo-config
- Topology and resources information
  - https://github.com/opensciencegrid/topology
  - Presented as RPM
    - *e.g.* http://repo.opensciencegrid.org/osg/3.5/el7/release/x86_64/
    - **Note** that the version number (*3.5*) will update periodically
- Access via usual github methods

Update communication methods

- May be advised of VO updates via
  - Email broadcast
  - Monitoring information sources
  - Direct communication from VO

Some challenges

- EGI Perspective
- Used to gathering and checking data from the Ops portal
- Some implementations of further packaging
  - Eg Stephen Jones generates RPMs for specific VOs for GridPP

- Question; how to best interact with VO data from OSG communities
  - Eg watch for changes in OSG VOMS RPMs and update accordingly

- Automated updates are ideal

Distribution of trust anchors

- Both EGI and OSG distribute packages of the IGTF trust anchors
- For EGI, a set of metapackages are generated based on different use cases
- For OSG, an rpm is generated containing all necessary CAs
  - In addition to other options including a set of scripts to manage CAs.

Combined Assurance Model

- Where CAs are used that do not provide the same level of assurance of IGTF classic CAs, look to use a combined adequacy assurance model
- Vetting provided by membership management processes instead of via grid certificate provision processes

Combined Assurance Model

- Specifically for EGI sites, there exists a particular package of CAs that fall under this banner
  - ca-policy-egi-cam
- This package should be installed to allow the use of such CAs
- However…

Combined Assurance Model

- **In addition** to the ca-policy-egi-cam package, sites must *also* install software controls to limit the use of these CAs to VOs that provide the right additional assurance
- Instructions given on the EGI IGTF wiki:
  - https://wiki.egi.eu/wiki/EGI_IGTF_Release
- For Argus, requires version 1.7.1 and use of a configuration file to specify which policies to use for which VOs

For discussion

- Both EGI and OSG have well defined sources of VOMS information
- As long as we know where that is, a pragmatic solution can be used
  - Watch versions, repackage information, etc…

- However, experience of working with VO data has at times been more challenging than might be ideal

For discussion

- As a question: taking a step back, for newer, truly global VOs (DUNE, for example), what would we *like* to have
  - What is practicable?