

EUDAT – PRACE cross infrastructure integration pilot

scoping and approach

Michał Jankowski, Maciej Brzeźniak

AARC SA1.3

Poznan Supercomputing and Networking Center

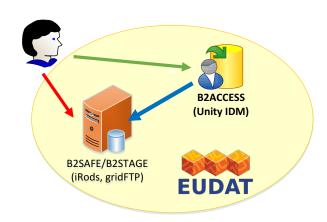


AARC General Meeting, Athens 20-22 March 2017

EUDAT so far scenario



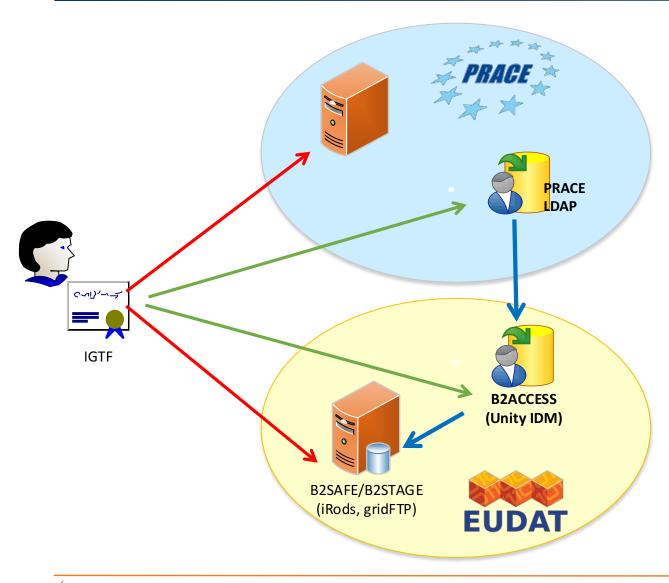
 The user registers in B2ACCESS (and accesses it) using different types of credentials (SAML IdP, social ID, local username/password, X.509 (long living cert signed by IGTF approved CA)



- B2ACCESS admin adds the user to relevant group
- B2ACCESS issues X.509 short living cert signed by its internal CA
 - This cert will not be accepted by PRACE!
- The couple of scripts running on the resource (B2STAGE/B2SAFE service) periodically get users from B2ACCESS, provision accounts and map users to these accounts.
 - The mapping is based on DN generated by B2ACCESS –not appropriate for PRACE!
- The user accesses the resource using the EUDAT certificate

Scenario





- 1. PRACE LDAP -> B2ACCESS synchronisation
- 2. B2ACCESS -> B2STAGE synchronisation
- 3. Access to web based EUDAT services

PRACE LDAP -> B2ACCESS synchronization



Cron script:

- Collect selected users from PRACE LDAP (deisaUserProfile set to "EUDAT")
- For each collected PRACE user:
 - Create Unity entity with x500 name identity equal to PRACE user DN (if not already exist)
 - Add the entity to PRACE Unity group (if not already added)
- For each Unity entity in PRACE group:
 - Remove the entity from this group if it is not within collected PRACE users

B2ACCESS – B2STAGE/B2SAFE integration

- modification to the current mechanism



• Cron script:

- Maps B2ACCESS groups to iRods users
- Maps DN from IGTF certificate exactly as DN from certificate issued by B2ACCESS

/C=DE/L=Juelich/O=FZJ/OU=JSC/CN=a7f7c4b5-7005-4af6-b346-b87f6e8ba442/CN=226/C=PL/O=GRID/O=PSNC/CN=Michal Jankowski

• Limitations:

- Multiple users per account
- Non up to date authorization information
- Not very scalable

B2ACCESS – B2STAGE/B2SAFE integration

- new mechanism



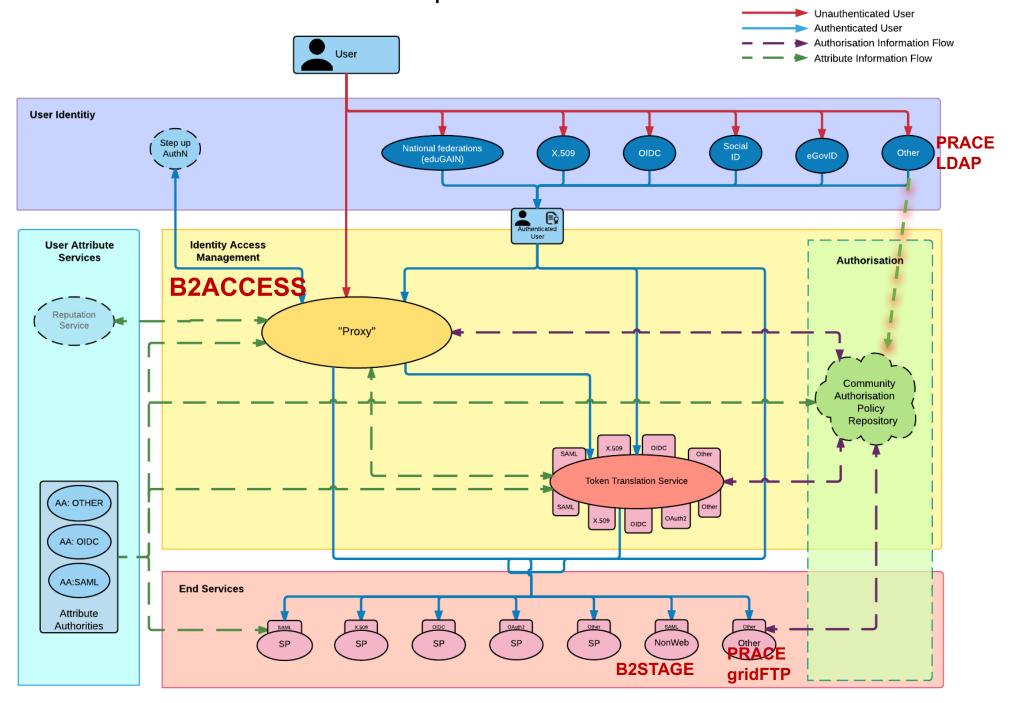
- Online user check using gridmap_iRODS_callout prior the mapping is done:
 - Get user (entity) info and groups from Unity
 - Provision local account
 - Associate/disassociate the local user with local groups according to group map configuration.
- This approach is not inline with some local policies
- It is preferred by PRACE
- PRACE group (project) -> single iRods user mapping is minimum required
- Both mechanisms may coexist providing careful configuration

Status and further work



- PRACE LDAP -> B2ACCESS script
 - Being evaluated by EUDAT
 - Group synchronisation will be added
- B2ACCESS -> B2STAGE "old" mechanism
 - Ready for evaluation
- B2ACCESS -> B2STAGE "new" mechanism
 - Proof of concept
- The work is intended to be put in production

AARC Blueprint Architecture



Deliverable DSA1.4: Pilots to improve access to R&E relevant resources



- CILogon -like
- LDAP Facade
- SSH key management using COmanage and OpenConext
- SSH key provisioning for VMs using WATTS
- EUDAT-PRACE
- EUDAT-EGI (web and non-web)
- Federated access to ORCID
- LibreOffice/OwnCloud
- Elixir TTS with ClLogon
- BBMRI AAI

Thank you Any Questions?



https://aarc-project.eu

