Current Infrastructure

Internal User (LIGO Lab, LSC, Virgo,....)

- grid-proxy-init
- ligo-proxy-init

my.ligo.org (Onboarding & Management)

- CILogon
- CILogon Proxy Certificate

login.ligo.org IdP

- IGTF Proxy Certificate

SAML Proxy (SATOSA)

- Grouper
- LDAP
- Kerberos

- Shibboleth

eduGAIN

- Grace DB
- Wiki

- 200+ SPs

- DCC
- P&P
- Vote

- Cluster (web)
- Cluster (gsissh)

- grid-mapfile (LGMM)

- gsiscp

- Attribute pull
- Attribute pull
- Attribute pull
- Attribute pull
✓ Aims:
  - Add a SAML proxy for internal usage
  - Start moving SPs to the SAML proxy
  - Document changes required to SP configuration
  - Investigate PyFF for metadata aggregation and discovery service

✓ Progress:
  - Working closely with Scott Koranda (LIGO / Spherical Cow Group) and Jouke Roorda
  - Plan to implement Dockerised solution
  - Document changes required to SP configuration

✓ Next steps:
  - Actually create SAML Proxy and use internal LIGO IdP
  - Start switching my SPs over (e.g. Cardiff GitLab, wiki, Webserver, JupyterHub ….)

✓ Long term:
  - Switch away from my.ligo.org to CILogon hosted instance of COMangage?
Limitations of Federated Identities

✓ Observatories:
  o LIGO Observatories are in rural locations
  o WAN often fails
  o Currently replicate authentication, IdP, and SPs
  o Would need to retain dedicated LIGO authentication for observatory staff and visitors

✓ SSH Access:
  o Still struggling to find good federated solution for SSH access
  o As well as CILogon proxy certificate + gsissh switching to password and/or centrally managed SSH key
  o In a federated world we could create a dedicated password for SSH access

✓ Virgo:
  o LIGO work closely with Virgo collaboration and share many resources
  o Virgo does not use any SSO solution or federated identities.
Thank you

Any Questions?

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