Grid Access with Federated Identities

• Managing X.509 certificates manually is an impediment for non tech-savvy grid users

• Fermilab has developed an open source general purpose command-line tool called cigetcert to automatically retrieve and store certificates
  – Works with existing Federated Identity Providers (IdPs)
    • IdPs enable Enhanced Client or Proxy (ECP) service
  – Authenticates with the IdP using local Kerberos or username/password
  – Retrieves certificate from CILogon Basic CA or similar Service Provider
  – Stores proxy certificates on local machine and also in MyProxy
    • Job submission system renews proxies from MyProxy for jobs to access storage
  – Reuses previous unexpired proxy certificates to reduce server load

• https://github.com/fermitools/cigetcert