

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>