



2017-09-29 Planning meeting

Adhoc whiteboard meeting with Craig and Mike

Authentication

- Mike has a proof-of-concept using nginx ILB external auth feature for  **NDS-813** - Implement workbench authentication module RESOLVED
- Discussed priorities going forward
 - Refactor UI to use token generated by new login module
 - Refactor API server to use SSO instead of basic auth
 - Auth into API server via CLI
 - Creation of secrets/ingress rules
 - At this point, we should be able to test end-to-end SSO with custom auth instead of HTTP-basic (no more double login!)
 - Handle authorization
 - Need some way to prevent user1 from accessing user2's stuff
 - Likely need to add new API endpoint to check_access given hostname and namespace/token
 - Oauth2 prototype
 - Refactor UI look/feel
- At this point, we still don't know enough about auth to go forward with OIDC/Oauth support
 - For TERRA-REF case, LDAP integration is more appropriate than Oauth, since ROGER uses LDAP and all users must have an NCSA LDAP account
 - Jim Basney says that CILogon can provide LDAP groups in Oauth scopes, but this must be configured per-client
 - Oauth scopes are not standardized
 - Globus Auth apparently has decent documentation <https://docs.globus.org/api/auth/specification/#introduction>
 - Talking with Nathan Tolbert, the usual practice inside NCSA is to use LDAP for authentication (delegates to Kerberos) and to use the groups for coarse-grained authorization. Applications (e.g., Atlassian suite) have local roles/ACL management interfaces, but support mapping to LDAP users and groups.
 - Still not clear when we would want to use CILogon for oauth
 - Maybe best example is public beta
 - Lose notion of groups/roles, so would map user to ACL directly.
 - Maybe OK for public beta, since we system end to end, as opposed to ROGER where we're working with existing infrastructure.

Priorities

- Einstein Toolkit tutorial server
 - Mostly done, in final testing now
 - Found bug ( **NDS-1037** - API server creates namespace of unapproved accounts on restart RESOLVED)
 - Will need ongoing support
- BBD workshop
 - Demo/presentation
 - Slide to MBDH by Tuesday
 - Lock down Mongo, change collection name
 - Likely will have 5-10 users after workshop (deal with as needed)
 - Pilot description
 - Upgrade beta?
- Other issues:
 - Need further research on auth/authorization model
 - Need further investigation of root user /RunAsUser problem
 - Network bug

Industry demo

- Single node install industry.ndslabs.org, demo only
- Will have Zeppelin, Jupyter, RStudio, Cloud9 and Xpra containers
- Potential stories
 - User can run analysis on existing data via Spark
 - Thinkchicago 2018 solution
 - Hackathon
 - "Ellen" – Genomics developer
 - Today: local IDE git commit/push ssh spark git pull mvn build spark-submit
 - Today: local IDE scp spark ssh spark spark-submit
 - Demo
 - Cloud9Spark spark-submit
 - Choose your notebook
 - Jupyter+Spark? RStudio+Spark? Zeppelin+Spark? Cloud9+Spark – we don't care!