{EXPLORER PROJECT CHEAT SHEET}

CONCEPTS

- Idea:

This software enables PIs to have direct management over their research group on the cluster: providing them with, among other things, the ability to add and remove users.

- Information Stored:

Every research group on explorer has the following information stored inside this software:

- Owner (PI) of a research group
- Members of the research group
- Delegates of a research group
- Guests of a research group
- Data custodian: the optional email address associated with the group (in addition to the group owner)
- How long the Research Group will be supported (i.e., its TTL)

- How It Works:

The workflow for creating and maintaining a research group on the explorer cluster is generally as follows:

- 1. A PI makes a request to create a new research group on the cluster
- 2. The PI can then add members directly to their research group or add delegates, who are privileged members, to add other members to the group
- 3. Periodically, the cluster will run code that manifests the different research projects into the filesystem with the appropriate permissions set for users

Types of Members

- Data Custodian

- Email address that will receive information related to quotas (can be a non-northeastern email)
- Does not require the person to be in the members of the research group

- Guests

• Is able to read and execute, but not write in the research project directory

- Group Members

- Is able to read, write, and execute in the research project directory
- Can view all other members of the research group

- Delegates

- Is a Group Member
- Can add users to the research group
- Can remove users from the research group

- Principal Investigator

- Has all the abilities of a delegate
- Can make users delegates for the research group
- Can remove delegates from the research group
- Can view the email of the data custodian
- Can update the email of the data custodian
- Can view the TTL of the research group

COMMANDS

Viewing Data

Viewing the members of a research group (Authorization: any group member)

Viewing the delegates of a research group (Authorization: must at least be a delegate)

\$ project project_name> view delegates

Viewing the guests of a research group (Authorization: must at least be a delegate)

Viewing the groupemail of a research group (Authorization: PI only)

\$ project project_name> view groupemail

Viewing the ttl of a research group (Authorization: PI only)

Adding Users

Adding users to the members of a research group (Authorization: must at least be a delegate)

Adding users to the delegates of a research group (Authorization: PI only)

Adding users to the guests of a research group (Authorization: PI only)

Updating Data

Update the email of the data custodian (the non-PI email) for the research group (Authorization: PI only)

\$ project ct_name> update groupemail <data_custodian_email>

Removing Users

Removing users from the members of a research group (Authorization: must at least be a delegate)

\$ project project_name> remove members <user1, user2, etc.>

Removing users from the delegates of a research group (Authorization: PI only)