Accounts vs. Allocations

There are two types of *accounts* at NERSC.

1. Your personal, private account
   - Associated with your *login* or *user name*
   - Provides *authentication* (personal identity) and *authorization* (which resources are accessible)
   - Your project’s Principal Investigator (PI) requests an account for you
   - Four primary account *roles*
     - PI, PI Proxy, Project Manager, User

2. An allocation account, or *repository* (aka *repo*)
   - Like a bank account you use to “pay” for computer time and archival storage
   - Managed by a Principal Investigator (PI) and (optionally) one or more Proxy PIs.
   - All MPP users belong to at least one repo
   - An individual user may belong to more than one repository
     - But only one *default repo*
NIM – NERSC Information Management

• Web-based tool for user and repo management
  – Check daily balance, change password, change login shell, update contact information, etc.

http://nim.nersc.gov
NIM Controls

• Drop-down menus

– Actions menu
  • Change password, change default login shell, generate HPSS token, change default repo

• Tabs
# Account Usage

## Account Usage Summary

<table>
<thead>
<tr>
<th>Resrc</th>
<th>Repo</th>
<th>User_id</th>
<th>Login</th>
<th>Login Type</th>
<th>User Hrs Used</th>
<th>User Charged</th>
<th>Avg CF</th>
<th>% Used</th>
<th>% Allowed</th>
<th>User Balance</th>
<th>Last Charged On</th>
<th>Base Repo?</th>
<th>Dft Now?</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPP</td>
<td>mpccc</td>
<td>17931</td>
<td>dpturner</td>
<td>Authorized</td>
<td>6,219</td>
<td>6,178</td>
<td>1.0</td>
<td>0.1</td>
<td>10</td>
<td>993,822</td>
<td>08-SEP-13</td>
<td>Y</td>
<td>Y</td>
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<td>dpturner</td>
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<td>N</td>
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<tr>
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<td>17931</td>
<td>dpturner</td>
<td>Authorized</td>
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<td>5</td>
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<td>03-SEP-13</td>
<td>N</td>
<td>N</td>
</tr>
</tbody>
</table>
Account Policies

• All users must sign Computer User Agreement
  https://nim.nersc.gov/Computer_User_Agreement.php

• Password policies
  – Must change password every 6 months
  – Do not share passwords
  – Do not email passwords

• Account locked after 5 consecutive login failures
  – Login to NIM to clear login failures
  – Call NERSC Account Support for more help
Password Rules

• **Must contain**
  – *at least* eight characters
  – *at least* one of each of:
    • upper-case letter
    • lower-case letter
    • numeric digit
    • “special” character (! @ # $ % ^ & etc.)

• **Good**
  j#K01vz$euP@!udls

• **Bad**
  P@ssw0rd

• **One possible method**
  1. computer security is very important for nersc users
  2. csivifnu
  3. C$1v1fnu
Allocations Process - PIs

• PIs apply through *Energy Research Computing Allocations Process (ERCAP)*
  – Part of NIM
  – Typically late summer
  – Science objectives, approach, and resource requirements
    • Computer time and archival storage space
  – Reviewed and awarded by DOE Science Offices
  – Most allocations are awarded in late Fall
    • Allocation year starts in January
    • Small startup allocations are awarded throughout the year
Allocations Process - NERSC

• Amount of MPP time available
  – Approximately 3 billion MPP hours AY14
  – 80% to “DOE Base”
  – 10% to ASCR Leadership Computing Challenge (ALCC)
  – 10% to “Director’s Reserve”
    • NERSC Exascale Science Application Program (NESAP)
    • NERSC Initiative for Scientific Exploration (NISE)
    • Education, startups, staff, etc.
Running Out of Time

• User
  – PI determines a percentage of the repo’s MPP allocation for each user
  – If user runs out of time
    • Can’t run batch jobs
    • Contact PI to increase percentage

• Repo
  – If repo runs out of time, PI should contact appropriate DOE Science Office Allocations Manager
    • Each Office typically holds a certain amount of time in reserve
Resources

• Self Help
http://www.nersc.gov/users/accounts/
http://www.nersc.gov/users/accounts/user-accounts/
http://www.nersc.gov/users/accounts/allocations/
https://www.nersc.gov/users/data-and-file-systems/hpss/hpss-charging/
http://www.nersc.gov/users/accounts/nim/
http://nim.nersc.gov

• NERSC Account Support
http://help.nersc.gov
accounts@nersc.gov
1-800-66-NERSC, menu option 2
Thank you.