Accounts and Allocations

David Turner
User Services Group

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 Accounts

There are two types of accounts at NERSC.

1. Your personal, private account
   - Associated with your login or user name
   - Identifies you to our systems and used when logging in to NERSC systems and web services
   - Your project’s Principal Investigator (PI) or Project Manager 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
   - PIs request allocations of time and/or storage
   - An individual user may belong to more than one repository
     - But only one default repo
Allocations

• You must belong to a repo to run jobs at NERSC
• Project PIs apply through the ERCAP process
  – Typically late summer
  – Reviewed and awarded by DOE Science Offices
  – Most allocations are awarded in the fall
    • Allocation year starts in January
    • Small startup allocations are awarded throughout the year
• Additional time is available through ALCC and NERSC “Director’s Reserve”
Running Out of Time

• User
  – PI determines a percentage of the repo’s allocation for each user
    • Can easily exceed 100%
  – If user runs out of time, contact PI to increase percentage

• Repo
  – If repo runs out of time, contact PI to contact appropriate DOE Science Office
    • Each Office typically holds a certain amount of time in reserve
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
    • password, shell, HPSS token, default repo

• Tabs
## 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>Dflt Now?</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPP</td>
<td>mpcce</td>
<td>17931</td>
<td>dpturner</td>
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<td>0.1</td>
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<td>dpturner</td>
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<td>N</td>
<td>N</td>
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</tbody>
</table>
Password Policies

• Must be changed every six months
• Must contain *at least* eight characters
• Must contain *at least* one of each of:
  – upper-case letter
  – lower-case letter
  – numeric digit
  – “special” character (! @ # $ % ^ & etc.)
• Don’t use common words, names, etc.
• Account locked after 5 consecutive login failures
  – Login to NIM to clear login failures
    • Call NERSC Account Support for more help
Password Examples

• Good
  j#K01vz$euP@!udls

• Bad
  P@ssw0rd

• My favorite method
  1. computer security is very important for nersc users
  2. csivifnu
  3. C$1v1fnu
Password Security

- **DO NOT SHARE PASSWORDS!**
  - Ask NERSC Consulting for help for collaboration
- **Report suspected compromise IMMEDIATELY!**
  - NERSC account/systems
  - Your local account/systems
  - [security@nersc.gov](mailto:security@nersc.gov)

**DO NOT SHARE PASSWORDS!**
Resources

• Self Help
  http://www.nersc.gov/users/accounts/
  http://www.nersc.gov/users/accounts/user-accounts/
  http://www.nersc.gov/users/accounts/user-accounts/account-policies/
  http://www.nersc.gov/users/accounts/allocations/
  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