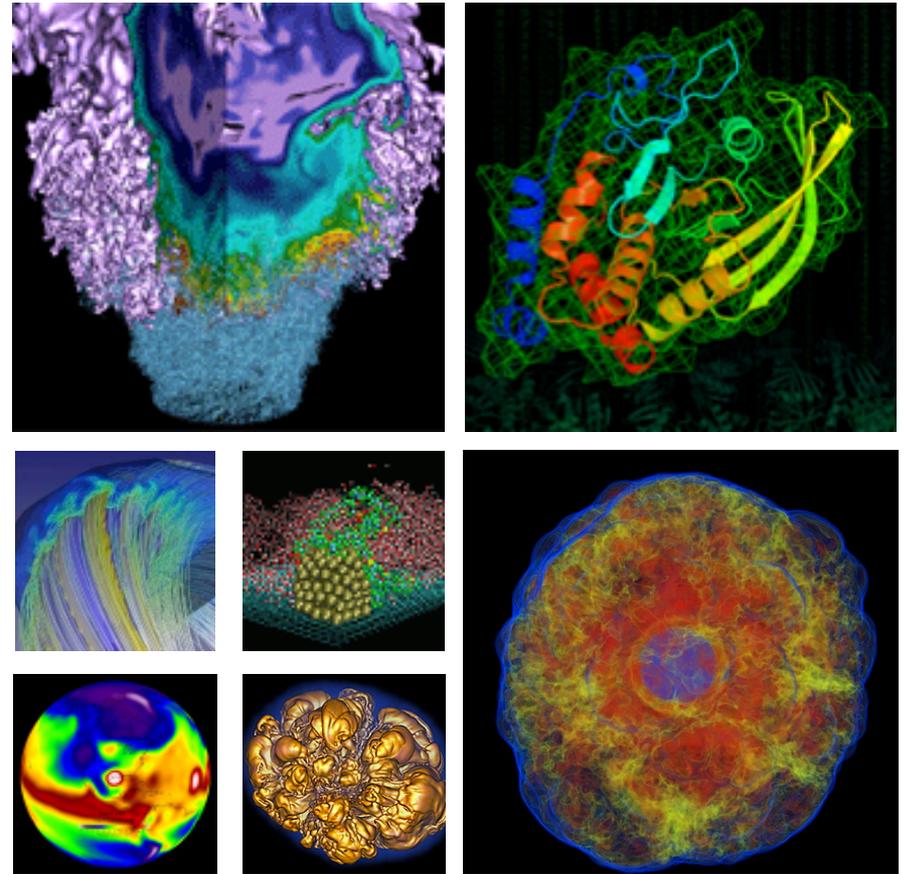


Accounts and Allocations



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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>



Please sign in

NERSC Username:

NIM Password:

[Reset your NIM password.](#) | [Forgot your username?](#)

Log In

- **Drop-down menus**

USG TestAccount | [Logout](#) | [Change My Password](#)

Quick Search:



| | | | | |
|----------|------------|----------|-----------|-----------|
| NIM Home | My Stuff ▼ | Search ▼ | Reports ▼ | Actions ▼ |
|----------|------------|----------|-----------|-----------|

- Actions menu

- Change password, change default login shell, generate HPSS token, change default repo

- **Tabs**

| | | | | | |
|---------------|----------------|-------------|-------|--------------|-------------------|
| Account Usage | Logins by Host | Unix Groups | Roles | Contact Info | Grid Certificates |
|---------------|----------------|-------------|-------|--------------|-------------------|

USG TestAccount

Account Usage



Account Usage Summary

| Resrc | Repo | User_id | Login | Login Type | User Hrs Used | User Charged | Avg CF | % Used | % Allowed | User Balance | Last Charged On | Base Repo? | Dflt Now? |
|-------|----------|---------|----------|------------|---------------|--------------|--------|--------|-----------|--------------|-----------------|------------|-----------|
| MPP | mpccc | 17931 | dpturner | Authorized | 6,219 | 6,178 | 1.0 | 0.1 | 10 | 993,822 | 08-SEP-13 | Y | Y |
| MPP | matcomp | 17931 | dpturner | Authorized | 1,430 | 1,430 | 1.0 | 0.0 | 1.0 | 228,570 | 05-SEP-13 | N | N |
| MPP | usplanck | 17931 | dpturner | Authorized | 447 | 447 | 1.0 | 0.0 | 5 | 384,553 | 03-SEP-13 | N | N |

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.