

Accounts and Allocations



New User Training
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Account and Allocation Support

Agenda

- Account Types
- User Accounts
- Allocation Accounts

Accounts vs. Allocations

There are two types of *accounts* at NERSC:

- Your personal, private account
 - Associated with your *login* or *username*
 - Provides *authentication* (personal identity) and *authorization* (which resources are accessible)
 - You can request an account on your own or your project's Principal Investigator (PI) or Project Manager can send you a link to request an account
 - Five primary account *roles*
 - PI, PI Proxy, Project Membership Manager Project Resource Manager, and, User
- A Project 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 Project Managers.
 - All MPP users belong to at least one repo
 - An individual user may belong to more than one project/repository
 - But only one *default project*

Iris - Web Based Information Portal

- **Web-based tool for user and project management**
 - Check daily balance, change password, change login shell, update contact information, etc.
 - Manage Project membership and allocations
 - Run reports on

<https://iris.nersc.gov>

Account Policies

- **All users must sign an Appropriate Use Policy form**
 - This is incorporated into the Self-Service account request form
<https://iris.nersc.gov/aup>
- **Password policies**
 - Must change password every 6 months (will soon change to 1 year)
 - **Do not share passwords**
 - **Do not email passwords**
- **Account locked after 5 consecutive login failures**
 - Login to Iris to clear login failures
 - If you have forgotten your password, there is a link on the Iris login page that will lead you through the process of resetting a password
 - Email NERSC Account Support for more help

Password Rules

- **Requirements**

- The password must register as either 'safe' or 'very safe' on a password strength meter that is provided.
- There is no character complexity rule regarding inclusion of uppercase/lowercase letters, digits and special characters.

- **Good**

j#K01vz\$euP@!udls **OR** moocher-earflap-robin-overreach

- **Bad**

P@ssw0rd

- **One possible method (old style)**

- computer security is very important for nersc users
- csivifnu
- C\$1v1fnu

Multi-Factor Authentication

- Provides an additional security layer to accessing NERSC
- Required for ALL users
- Generate token
- Online instructions
 - <http://www.nersc.gov/users/connecting-to-nersc/mfa/>

Generating a Token

Type	Serial	Description	Fail Count	Actions
No rows found				

New Token
Description

+ Add Token

Backup Passwords

Delete All Tokens

New MFA Token

OATH Seed

OTP Seed



Uri: otpauth://totp/NERSC-elvis-TOTP18941BFC?secret=

Serial: TOTP18941BFC

Authy Code:

QR-Code for installing the OATH compatible Soft Tokens (FreeOTP, Google Authenticator and other apps using the 'otpauth://' syntax).

This will be the only time you will be able to scan this code into your Google Authenticator (or similar app), or use the URL string.

Close



Allocations



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Science

Allocations Process - PIs

- PIs apply through the ***Energy Research Computing Allocations Process (ERCAP)***
 - Accessed through the NERSC Help Desk at
 - <https://ercap.nersc.gov>
 - Renew current projects annually, typically late summer
 - Science objectives, approach, and resource requirements
 - Computer time, Community and Archival storage space
 - Reviewed and awarded by DOE Office of Science programs
 - Most allocations are awarded in late Fall (December)
 - Allocation year starts in January
 - Small Exploratory (startup) allocations are awarded throughout the year with DOE approval

Allocations Process - NERSC

- **Amount of MPP time available**
 - Approximately 9.23 billion MPP hours AY20
 - 80% to “DOE Mission Science”
 - 10% to ASCR Leadership Computing Challenge (ALCC)
 - 10% to “Director’s Reserve”
 - NERSC Exascale Science Application Program (NESAP)
 - Exploratory, Education, staff, etc.

Running Out of Time

- **User**

- PI determines how much of the project's MPP allocation each user can use
 - Either as a % of Total allocation or a fixed # of hours
- If user runs out of time
 - Submitted jobs go into the overrun queue if project cannot pay for job
 - Contact PI to increase percentage or # of hours

- **Project**

- If project runs out of time, PI should contact appropriate DOE Science Program Allocations Manager
 - Each Program typically holds a certain amount of time in reserve
- Any jobs submitted will run in overrun (low priority)

Resources

- **Self Help**

<https://ercap.nersc.gov>

<https://iris.nersc.gov>

<https://iris.nersc.gov/add-user>

<http://www.nersc.gov/users/accounts/>

<http://www.nersc.gov/users/accounts/allocations/>

<http://www.nersc.gov/users/accounts/user-accounts/>

<http://www.nersc.gov/users/accounts/user-accounts/how-usage-is-charged>

<http://www.nersc.gov/users/connecting-to-nersc/mfa/>

<https://docs.nersc.gov/filesystems/archive/#hpss-usage-charging>



Resources cont.

- **NERSC Account Support**
 - <http://help.nersc.gov>
 - accounts@nersc.gov

- **NERSC Allocation Support**
 - <http://help.nersc.gov>
 - allocations@nersc.gov



Thank You and
Welcome to
NERSC!

