BLUE WATERS

SUSTAINED PETASCALE COMPUTING

Accounts and Allocation Management

NCSA

GREAT LAKES CONSORTIUM
FOR PETASCALE COMPUTATION

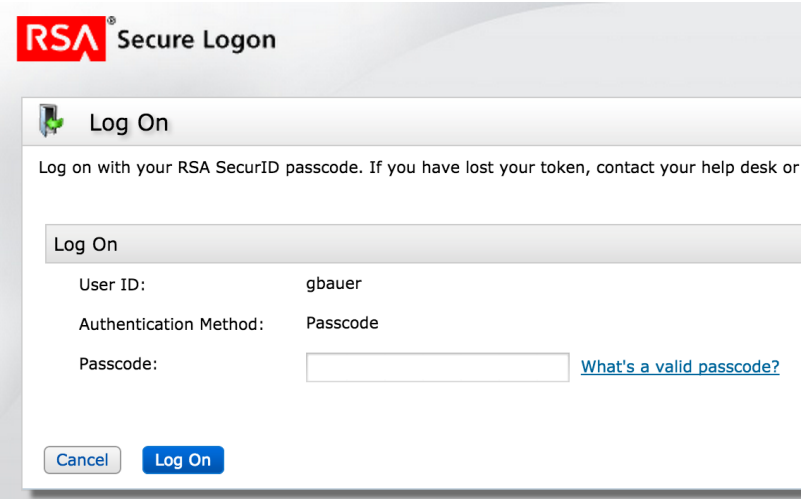
CRAY

RSA

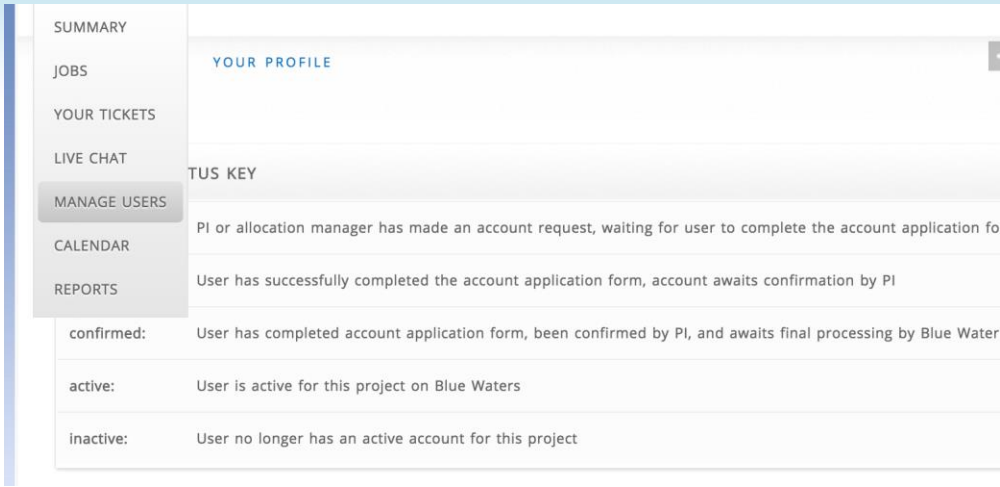
- RSA One Time Password (OTP)
- Option of physical or soft token (iPhone & Android)
- Set security questions at https://otp.ncsa.illinois.edu
  - Allows you to change PIN
  - Get temporary token codes
- Can get out of time sync which might require entering two token codes in a row.

RSA continued

- Contact help+bw@ncsa.illinois.edu to
  - To report and replace lost or damaged tokens.
  - To reset PIN when you can't do it yourself via OTP website (https://otp.ncsa.illinois.edu).
  - Both require confirmation via telephone call to the phone numbers listed for your account.



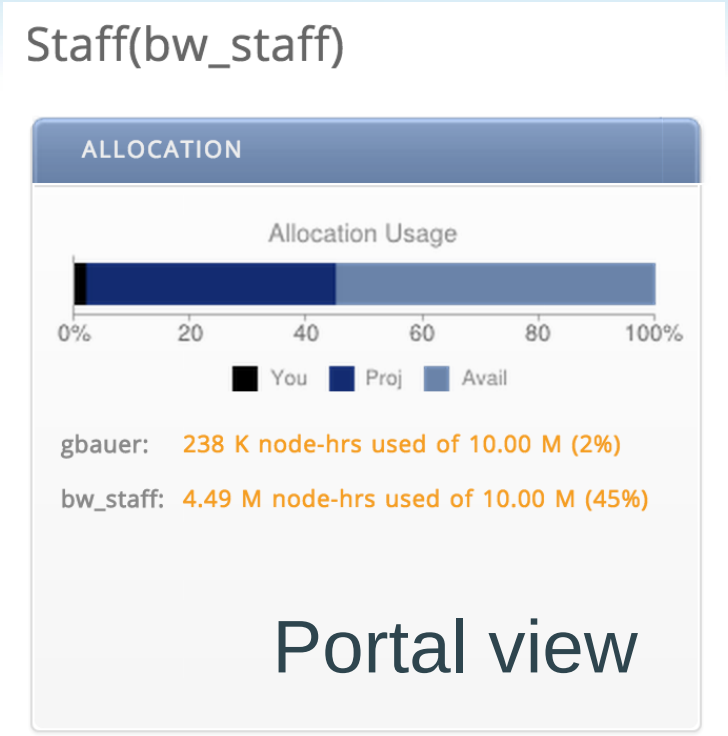
Account



- Portal Functions
  - Account management
  - Assign a delegate
  - Changing account information
  - Check usage
  - Check storage
- Blue Waters Command line
  - Checking usage
  - Checking storage quota

Usage

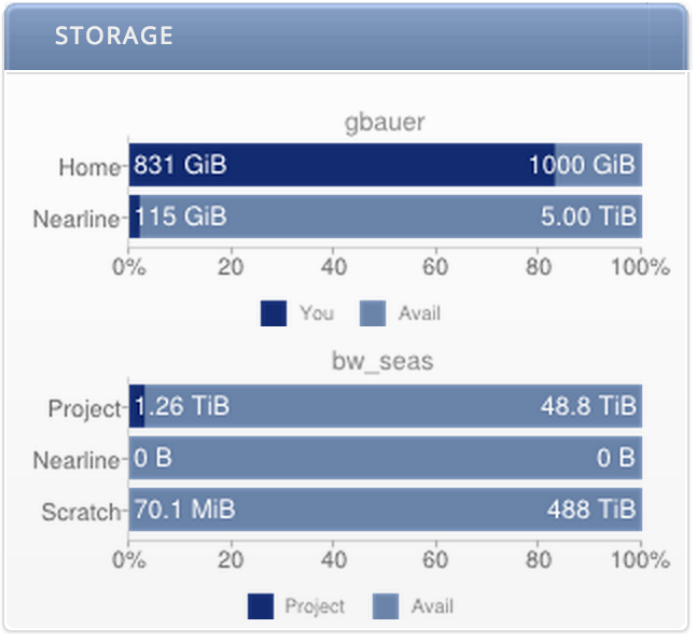
- Usage is updated daily at the moment.
- Timings based on Moab accounting, checked with Torque.




```
> usage -u gbauer
Proj         Mach    Login          Usage    Status    Proj_alloc    Proj_usage   Proj_expire    Name
-------------------------------------------------------------------------------------------------------
bw_seas      bw      gbauer          0.00    Active          1.00          0.00    04/02/2018    Bauer, Gregory
bw_staff     bw      gbauer     237788.86    Active    9999999.00    4487521.24    04/02/2018    Bauer, Gregory
jnd          bw      gbauer       4594.72    Active    9999999.00      41810.97    04/02/2018    Bauer, Gregory
jnx          bw      gbauer          0.00    Active    9999999.00          0.00    04/02/2018    Bauer, Gregory
joj          bw      gbauer       3609.53    Active    9999999.00    1391075.58    12/31/2018    Bauer, Gregory
PRAC_jnf     bw      gbauer          0.00    Active   31500000.00    4921304.42    12/31/2016    Bauer, Gregory
TRAIN_js1    bw      gbauer          0.00    Active        500.00         32.00    10/15/2014    Bauer, Gregory
```

Quota and use of online and Nearline storage

```
bauer@h2ologin2:~> quota
Lustre Quota Information
================================================================================

[ gbauer ]..................................................................
Filesystem      bytes   quota   limit    grace    files   quota   limit
/projects           1T       0       0    -           4K       0       0
/scratch          457T       0       0    -           4M       0       0
/u                831G    1000G      1T    -         274K      5M      10M

_____________________________Project_group_quotas_____________________________

[ /scratch ]................................................................
Group           bytes   quota   limit    grace    files   quota   limit
PRAC_jnf           76T    488T    537T    -          114K    100M       0

[ /projects ]...............................................................
Group           bytes   quota   limit    grace    files   quota   limit
PRAC_jnf          644G      5T      5T    -            0K     50M       0

Nearline Quota Information for user
================================================================================
gbauer          Used:    115G    of      5T    Assessed on: Sat Feb  7 17:03:08 2015

Nearline Quota Information for groups
================================================================================
jnd             Used:   1218T    of   4000T    Assessed on: Sat Feb  7 17:03:08 2015
```



Additional Information

- No limit on number of users in a project
- Email notification at 3 thresholds for usage and expiration.
- Grace period access to system after project expiration. Can be extended upon request.
- Project serial number (PSN) has a prefix to allow quick identification of allocation process: PRAC_, ILL_, GLCPC_, etc. The PSN is used for Unix groups, PBS account charging.

Changes to Account

- Change shell
  - send email to help+bw@ncsa.illinois.edu
- Change email address
  - Go to portal.
- Any other requests
  - send email to help+bw@ncsa.illinois.edu

Compute allocation considerations

- Use the low queue when possible.
- Inquire with allocation point of contact if running low.
- Periodically check usage.
- Make sure team members monitor their usage.

Storage Quota Considerations

- Check file system and Nearline usage periodically.
- Increase in file system quota
  - send email to help+bw@ncsa.illinois.edu
- Increases in project quotas not personal quotas
  - Short term for scratch
  - Online project space has a cap.
  - Nearline project needs justification but no cap.

Project Expiration Considerations

- Track approaching end date.
- Note renewal or new allocation deadlines.
- Data Management Plan
  - https://bluewaters.ncsa.illinois.edu/apps/bwdataplan
  - Provides up to 3 months grace period.