



Account and Allocation Management

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User Services @ LONI





Account and Allocation Web Interface

- LONI: **allocations.loni.org**
- LSU HPC: **accounts.hpc.lsu.edu**
- This is where you
 - Request accounts
 - Request and manage allocations
 - Update contact information
 - Reset password
- Similar interfaces
 - Managed by the same software
 - We will focus on the LONI one





Who Is Eligible for A LONI account

- Faculty or research staff members from one of the LONI's member institutions
- Students working with a faculty or research staff member from one of the LONI's member institutions
- Researchers who collaborate with a faculty or research staff member from one of the LONI's member institutions
- Faculty members from other Louisiana universities may apply for an account as well
 - Needs approval from the LONI executive director





Who Is Eligible for A LSU HPC account

- Faculty or research staff members from LSU
- Students working with a faculty or research staff member from LSU
- Researchers who collaborate with a faculty or research staff member from LSU





Account Application Procedure

- Go to the allocation web site and click on “request login”
- Type in your email address and the image code
 - The email needs to be an institutional one
 - The likes of hotmail and gmail will not be accepted
- You will receive an email with a link to the real form
- Fill out the form and submit
 - “LONI Contact/Collaborator”: this is your adviser if you are a student, or yourself if you are a faculty member
- Your account will be activated after your information is confirmed
 - May take up to a week





Account Policy

- No account sharing is allowed
 - An account is for one user only
 - Every person who will use the cluster needs to apply for their own account
- Your account is subject to deletion once your affiliation with LONI member institutions terminates
- Penalties
 - Account suspension
 - Loss of allocation





Password Reset Procedure

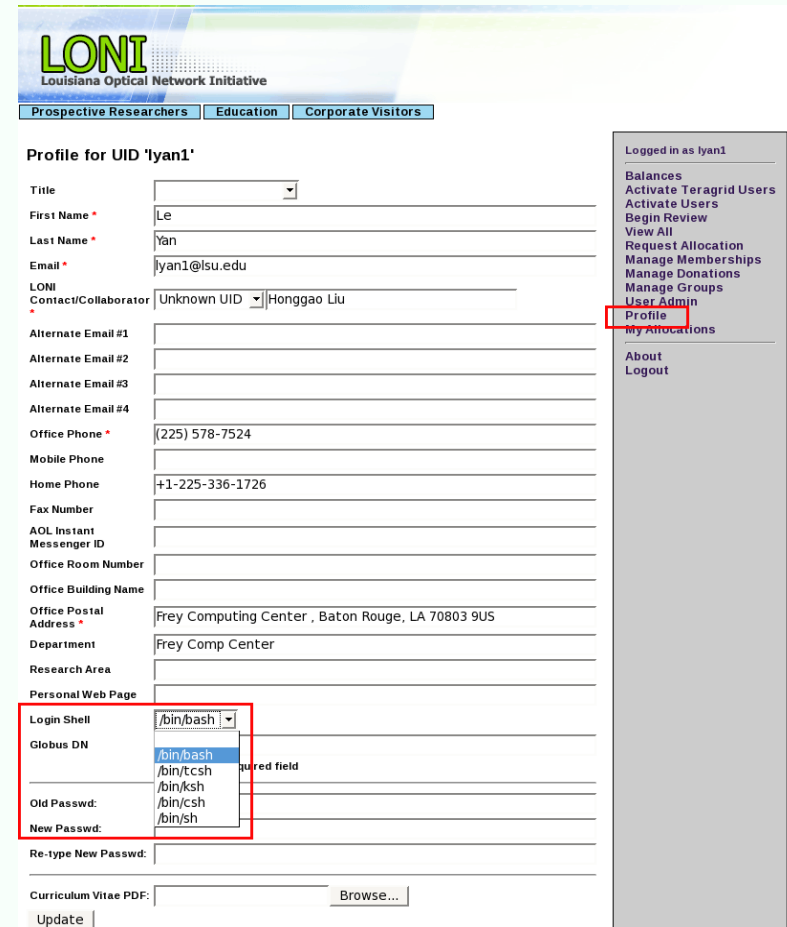
- Go to the allocation website and click on “forgot your password?”
- Type in the image code and your email address
 - The email address must be the one you used to apply for the account
- You will receive an email with a link to the reset form
- Type the new password and submit
- A system administrator will approve your password reset
 - May take a short while





Changing Login Shell

- “Profile” menu item
- Supported shells
 - bash
 - tcsh
 - csh
 - ksh
 - sh
- “chsh” and “ypchsh” do not work



LONI
Louisiana Optical Network Initiative

Prospective Researchers | Education | Corporate Visitors

Profile for UID 'lyan1'

Title:

First Name:

Last Name:

Email:

LONI Contact/Collaborator: |

Alternate Email #1:

Alternate Email #2:

Alternate Email #3:

Alternate Email #4:

Office Phone:

Mobile Phone:

Home Phone:

Fax Number:

AOL Instant Messenger ID:

Office Room Number:

Office Building Name:

Office Postal Address:

Department:

Research Area:

Personal Web Page:

Login Shell: (dropdown menu open showing: /bin/bash, /bin/tcsh, /bin/ksh, /bin/csh, /bin/sh)

Globus DN:

Old Passwd:

New Passwd:

Re-type New Passwd:

Curriculum Vitae PDF:

Logged in as lyan1

- Balances
- Activate Teragrid Users
- Activate Users
- Begin Review
- View All
- Request Allocation
- Manage Memberships
- Manage Donations
- Manage Groups
- User Admin
- Profile**
- My Allocations
- About
- Logout





Allocation

- An allocation is some finite number of service unit (SUs) that allow you to run jobs on a cluster
 - One SU is one cpu-hour
 - Example
 - 40 SUs will be charged for a job that runs 10 hours on 4 cores
- Enforced on all LONI clusters
- Currently NOT enforced on LSU HPC clusters





Types of Allocations

- Startup
 - Less than or equal to 50k SUs
 - Applications reviewed by local allocation committee member
 - Decision will be made within two weeks after submission
 - Good for one year
- Large
 - Greater than 50k SUs
 - Applications reviewed by LONI allocation committee during the quarterly meeting
 - Decision will be made on January 1, April 1, July 1 and October 1 of each year
 - Good for one year





Requesting A New Allocation

- The principal investigator must be a faculty or research staff member from one of the LONI member institutes
- Procedure
 - Click on “request allocation”
 - Click on “new allocation”
 - Fill out the form and submit
 - You must submit a proposal along with a large allocation request
 - Need to specify how many SUs are needed on each platform
 - IBM AIX clusters
 - Dell Linux clusters





Joining An Existing Allocation

- Any user can join an existing allocation
- Procedure
 - Click on “request allocation”
 - Click on “join allocation”
 - Enter the name, email address or user name of the allocation PI to search for the allocation you want to join
 - Click on the "Join Projects" button
 - The allocation PI will receive an email regarding to your request and you can use the allocation after the PI approves the request





Manage An Allocation

- “Manage membership” menu item
 - Add a user to allocation
 - Remove a member from allocation
 - Make a current member allocation administrator
- “Manage donation” menu item
 - Donate the remaining time on any allocation you administer to any other allocation that you are currently able to use





When An Allocation Expires

- Allocations are NOT extensible
 - Donate the time if necessary
- When submitting a new allocation request
 - The content can be copied from the previous requests
 - “My allocations” -> “Clone/edit”
 - The committee is likely to ask for a brief report, especially if it is not the first request for the project
 - “My allocations” -> “Report”
 - If you use up a couple of startup allocations in a short period of time, be prepared to apply for a large one
 - Plan ahead as large allocations are reviewed quarterly





Checking Allocation Balance

- Use the allocation web interface
 - The “Balances” menu item lists the balances of all allocations of which you are currently a member
- Use the “balance” command on a cluster

```
[lyan1@painter2 packages]$ balance
===== Allocation information for lyan1 =====
  Proj. Name|          Alloc|  Balance| Deposited|      %Used| Days Left|      End
-----|-----|-----|-----|-----|-----|-----
loni_loniadmin1|loni_loniadmin1| 37320.35| 100000.00|    62.68|      21|2009-10-01
loni_train09|loni_train09 on @Dell_Cluster| 39658.21| 40000.00|    0.85|     113|
2010-01-01
```

Note: Balance and Deposit are measured in CPU-hours





When Issues Arise

- User's Guide
 - HPC: <http://www.hpc.lsu.edu/help>
 - LONI: https://docs.loni.org/wiki/Main_Page
- Contact us
 - Email ticket system: syshelp@loni.org
 - Telephone Help Desk: 225-578-0900
 - Walk-in consulting session at Middleton Library
 - Tuesdays and Thursdays only
 - Instant Messenger (AIM, Yahoo Messenger, Google Talk)
 - Add “lsuhpchelp”





What's Next

- Job management
 - Date: Feb 11, 2009
 - Time: 1:30pm
 - Location: 307 Frey Computing Services Building

