a_Completed, Research

201304 Decommission Transit

ChemIT set up a temporary service to address a network limitation we tied to the Baker Lab network upgrade done in Feb. 2013. Must now transition users off that temporary service.

- Transit documenation — CRCF service created to facilitate SFTP transfers to Nandini's iMac, initially from an off-campus-based cluster resource.

Better RedRover coverage in PSB

At a minimum, add a RedRover access point on PSB's second floor. Seek partnership with non-CCB PSB researchers to add even more RedRover access points, if possible.

Cluster work, completed

- P29 - Crane's new cluster — Increase computational capacity for Crane's group.
  - 1) Add Crane nodes to Lancaster's cluster — New node hardware can't easily, if at all, be added to existing cluster, which is running an old OS.
  - 2) Add Crane's 2 new nodes to Chem Cluster — The Chemistry Community Headnode will hopefully be ready for business in the coming months (as of 8/2013).
  - 3) Create one (or two) stand-alone workstations, as a stop-gap measure — ChemIT could "quickly" stand-up new hardware to enable Crane group's access to more powerful systems. But clearly this would only be an interim solution.
- P30 - Hoffmann's cluster upgrade — NSF grant awarded. Thus, this project is a "go" as of August 2013.
- P40 - Collum Cluster Upgrade — Upgrade to CentOS and add 2 nodes to existing
- P45 - Collum - Expand a Compute Node's Storage for 9TB (or 12TB), Scratch
- P66 - Petersen Computational Systems (Windows) — 2 high-performance computers, running Windows server.

Crane 3D workstation and storage

Aiming to complete fall 2016.

- Crane - Storage system — Crane group members can access their data using any of the 4 workstations, or from the Lancaster/ Crane cluster. Here's how that's done.
  - Crane storage, visually — Don't backup (and thus pay to back up) large amounts of restorable data.

Evaluate CISER's services

CISER software (Mathematica, MatLab, etc) running on high-end clusters, free to researchers during evaluation period paid for by CCB.

FREED - CCMR's IT migration tasks

- (1) Eldor server's disposition — Eldor must find a physical new home by Feb. 1st. Priority is Liang's project, which in the short term is not likely to required Eldor.
  - (3) AFS service shut down so provision alternative — CCMR's file server, which is depended on by Eldore and Skeeve. Also provides file server access to Windows systems.
- Freed migration tasks completed
  - (2) Skeeves server disposition — Depends on CCMR's AFS (Andrews File System). Address that (and other priorities) first.
  - (4) CCMR's email services expiring — CCMR's email service is scheduled to end Dec. 15th (as of 11/28/12).
  - (5) Web site, using PHP and MySQL — "Dynamic" web site, <http://www.acert.cornell.edu/ http://www.acert.cornell.edu/>.
  - (6) Migrate FTP services from CCMR

Freed - Jack's replacement laptop

Recommending a Dell Latitude E7x40/ E7x50 laptop. The "x" is either a 2 (12.5" screen) or a 4 (14" screen). Other decisions to be made are outlined on this page.

Freed - John Franck's dual-OS needs

Ideas to provision dual-OS, with one OS not supported by ChemIT.

Freed - June 2015 workshop

2 days, June 10th and 11th, 2015. Likely about 25 participants, but max. of 40 scheduled. Presentations on first day. On-hands workshop the second day. About 12 speakers. And fewer (6-10?) workshop facilitators.

- Virtual Machine for ACERT June 2015 workshop — ChemIT created a stock Windows 7 image with MATLAB. ChemIT created a stock Linux image with MATLAB. And vetted and tested VM technology to use and wrote up instructions for John. John expanding on on each image and curating this image for distribution to workshop participants.

Freed - Peter Borbat's workstation

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Lin HPLC computer rebuild, Win2000

Oliver's attempt to restore a failed HD's computer. Restored the Win2000 from Ghost image from factory and got license key installed. Also tried to port application to Win7 32-bit, but vexed by software copy-protections.

P23 Dichtel Mac Sync

Consider 3rd party tools to improve AD integration for Mac desktops so they can more effectively use CIT's SFS service and yet also still benefit from Mac Home Directory-style behavior.

P132 Dichtel Moving from Cornell to Northwestern, in Chicago

A place to inventory IT-related issues and their current status. And to promote understanding and coordination among Will and other research group members, Chemistry IT, and the folks at Northwestern.

- Details and past concerns — Hopefully past concerns have been addressed, but info held here in case review required.

P133 Park Moving from Cornell to Chicago

Expect to have planning meeting with Jiwoong in August 2016.

Research IT Reps

Orientation session conducted right before main Fall 2013 semester.

Scheraga's server in Argentina

Harold wants this server at Cornell instead of where it is now.

Scheraga - Cluster backup choices

Add true backup functionality to the existing cluster. Discussion started Oct. 2013.

Scheraga - Data corruption problem on Matrix cluster

The Matrix cluster is currently unavailable due to a problem with its data storage.

- Matrix punch list — Key questions to address as we progress on finishing the clean-up from the Matrix failure.
- Scheraga cluster restoration choices
- Steps to restore system

Scheraga - Yi He's dedicated GPU computer

Harold is writing a grant requiring results which require GPU processors. Goal: Get Yi He access to a GPU-provisioned machine so he can get results to Harold ASAP.