

Lab 1 (B170) management

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Racks

The racks are numbered from 1 to 4, left to right. They are labeled as such as of August, 2011.

ATCA Crates

The ATCA crates are numbered from 1 to 4, from bottom to top. Thus `ShelfMgr4` refers to the shelf manager in the top-most (large) crate.

Patch Panel

The Rack 4 patch panel is cabled to panels mounted near the work benches. These cables can carry either network or serial (RS-232) traffic.

Bench	Port
ATLAS IBL	1 - 12
EXO	13 - 24
LSST	25 - 36

SLAC Network switch (Cisco) rtr-reg-l1

- [net-admin](#)
- Antonio Ceseracciu (mailto:Antonio.Ceseracciu)
- [Switch status and configuration](#)

RCE Network switch (Foundry) reg-l1-rce

- Management of the Foundry FastIron Workgroup X448 (FWSX448) is provided by our group
- [Foundry switch commands](#)
- Foundry manuals of varying ages can be found [here](#) or other places on the net:
 - [Foundry FastIron Stackable Hardware Installation Guide](#)
 - [Foundry FastIron X-Series Configuration Guide](#)
 - [Foundry Switch and Router Installation and Basic Configuration Guide](#)
 - [Foundry Enterprise Configuration and Management Guide](#)
 - [Foundry Security Guide](#)
 - [Foundry Switch and Router Command Line Interface Reference](#)
 - [Foundry Diagnostic Guide](#)
 - [Foundry Management Information Base Reference](#)
 - [Release Notes for the FastIron Workgroup Switch X-Series](#)

Switch port assignments

IP address assignments

Digi Powerserver RS-232 server

- Model is Digi Portserver TS 16 MEI
- Manual can be found [here](#)

New lab machine setup

Taylor workgroup: dat

Adding a new user

- Issue training to the user on Lab 1 use. Points to make:
 - Avoid working in the room alone
 - Get, and keep current, appropriate electrical training
 - Get a ladder if you need to get up high
 - No climbing on chairs, tables, benches, etc.
 - A spotter **must** be present in order to use a ladder
 - No access to stuff not part of your project
 - Stay out of the racks unless access is really needed
 - High current sources present
 - No reconfiguration of computers
 - No reconfiguration of the network
 - Keep the work area clean
 - Avoid accessing Lab1 through the middle hallway door
 - Point out [Dataflow Lab 1](#) Confluence page and have the user go over it
- Introduce the user to Mike
- Create a computer account for the user

- **For the old method, see `/reg/common/tools/bin/addlabuser`, etc.**
 - This is obsolete as of 1/1/2012, now that we have moved to `unix-admin` style maintenance. However, it may still be needed for legacy set-ups.
 - On `rdsrv100`, issue:

```
/reg/common/tools/bin/addlabuser <username>
```

 - Puts user in the appropriate groups, e.g., `lab-users`
 - Add `--superuser` to add the user to the `sudo` list, if necessary
 - If this fails with a 'User not found in ou=People...' message issue:

```
/reg/common/tools/ldap-helpers/nis2ldap
```

 - Retry `addlabuser`

- Add the account to the `u-reg-lab1` netgroup (NIS) with a request to [unix-admin](#)
- If the user is involved with RCE development (DAT, CTK, CCI, NPA, etc.):
 - Send a request to [confluence-admin](#) to add the user to the `cci-confluence-editors` group and get the user CCI JIRA privileges
 - Add the user to the `g-npaAFS` group, if necessary
 - Needed for NPA cvs/svn access, as in, e.g., ATLAS
 - Add the user to the `g-cciAFS` group, if necessary
 - Needed for RCE development svn access

```
pts membership g-cci
pts adduser <username> g-cci
```

- Add the user to the `reg-lab1YP` group, if necessary
 - Needed for certain Lab 1 NFS disk operations

```
ypgroup exam -group reg-lab1
ypgroup adduser -group reg-lab1 -user <username>
```

- Some dongles have `udev` rules that put the usb device into the group `users`
 - Add the user to the `users` group on the relevant host, if necessary

```
sudo /usr/sbin/usermod -G users <username>
```

- Add the account to the `reg-lab` listserv e-mail list (see [below](#))
 - Send an e-mail to [listserv](#) with subscribe `reg-lab <user>@SLAC.Stanford.edu` in the message **body**
 - Can also add the user by going to [listserv](#)

List of authorized users

Lab 1 Announcements

- Listserv list name: [REG-LAB](#) (slaonly)
- Administration: [REG-LAB-ADMIN](#) (slaonly)
- List FAQ: <http://www2.slac.stanford.edu/comp/messaging/Reference/listserv-faq.htm>
- General help: [listserv](#) (slaonly)