

How to use NETLAB

CIS Network & System Technology Lab
September 2006

NETLAB is a set of router and switch pods that can be accessed remotely using a browser. There are two router pods which are already wired. With NETLAB you have “console” access (uses Telnet) to each router in a pod and you can power the routers on and off if needed.

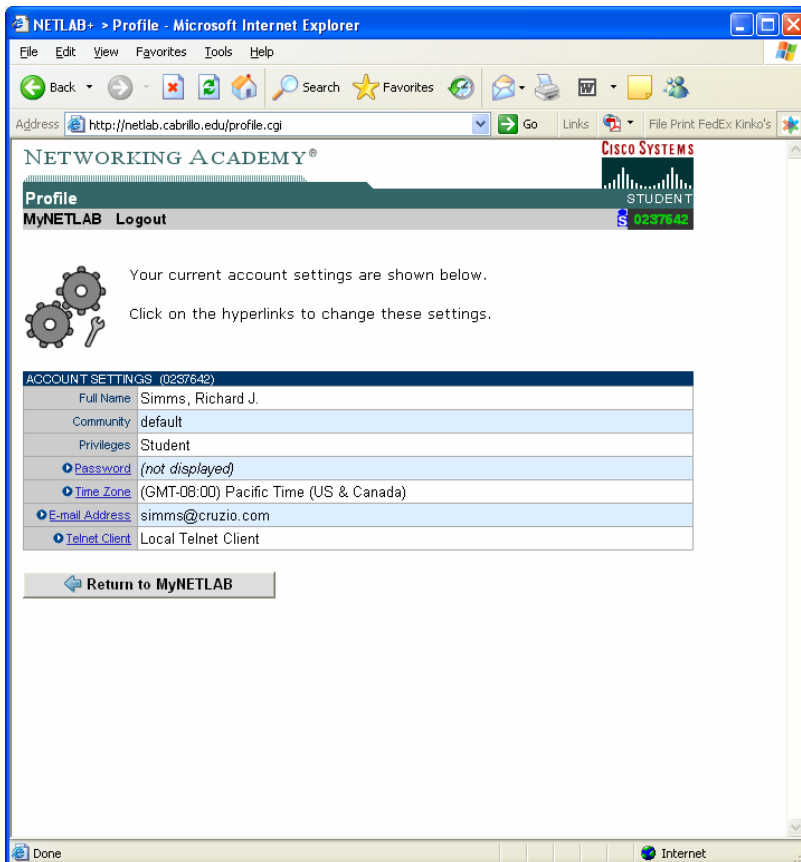
1) Browse to NETLAB

<http://netlab.cabrillo.edu/>

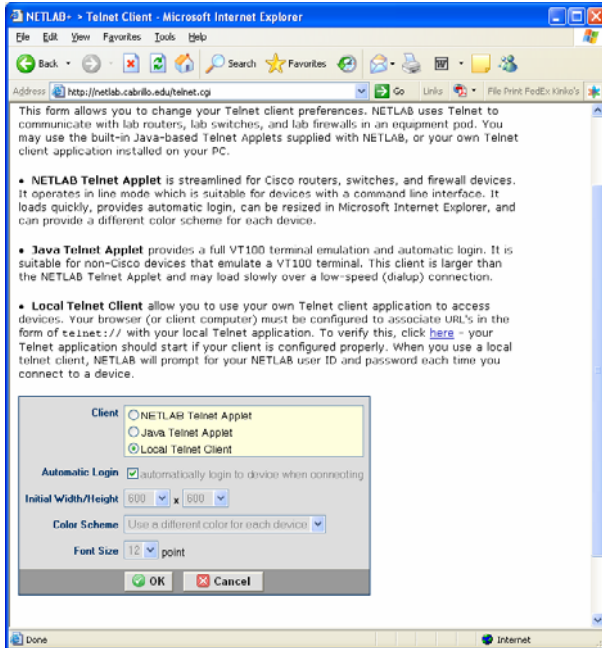
2) Log in using your seven digit student ID.

3) Your initial password is perlman which you can change after logging in.

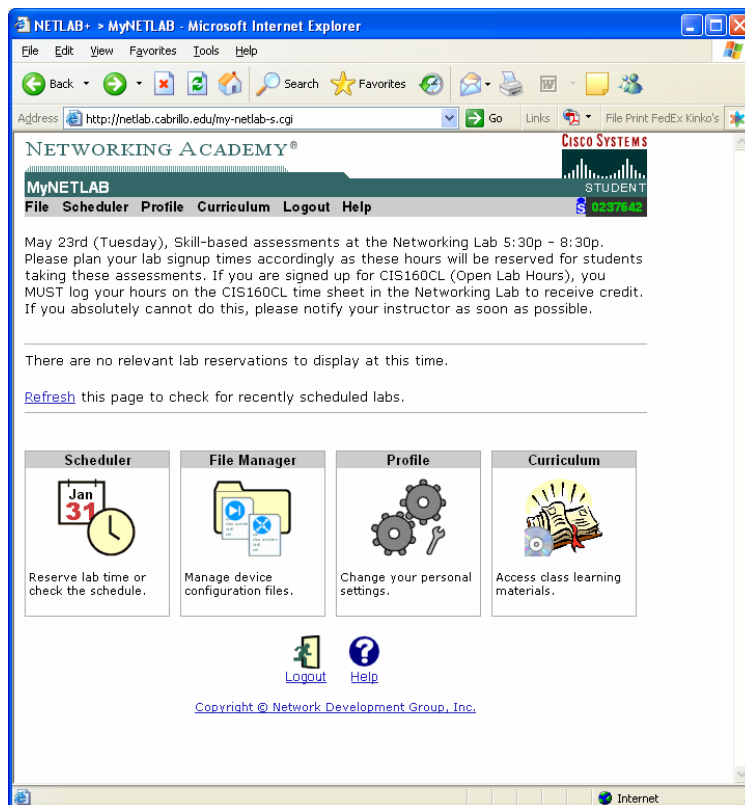
4) Go to the Profile area and change your password:



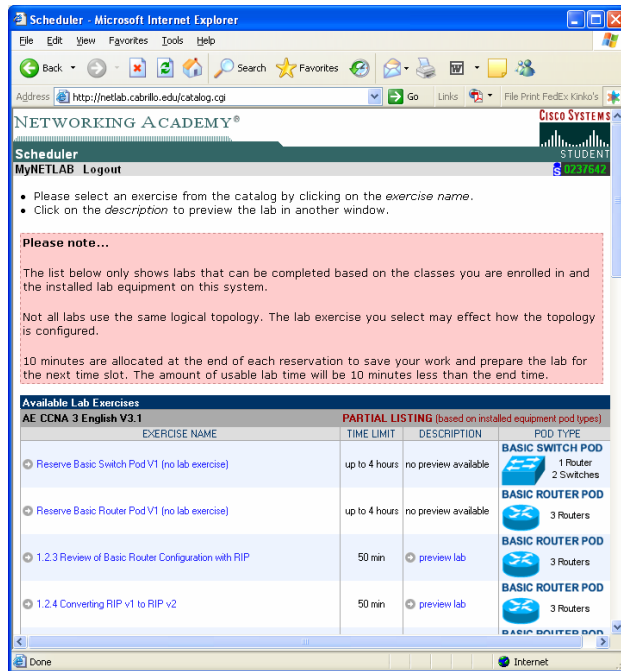
and then select an alternate Telnet client (optional)



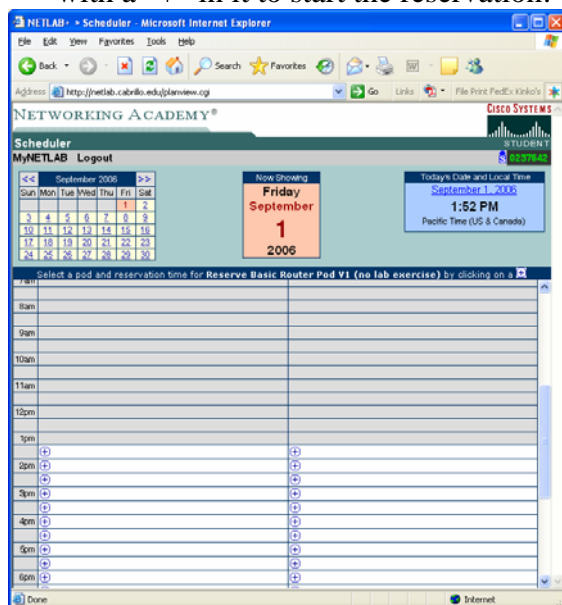
5) Reserve a time slot by clicking on the Schedule icon. Follow the links to Rick's class and then reserve time for yourself:



- 6) Next you will see a large number of pods to select from. Most of these don't really exist. Select "Reserve Basic Router Pod V1 (no lab exercise)".



- 7) Now scroll down to the next available time slot (white space) and click on the circle with a "+" in it to start the reservation:



8) Fill in the reservation request for how long you want the pod:

10 minutes are allocated at the end of each reservation to save your work and prepare the lab for the next time slot. The amount of usable lab time will be 10 minutes less than the end time.

Reservation Type Individual Self Study for Class
Class Name CIS 83 Fall 2006 Rick Graziani
Exercise Reserve Basic Router Pod V1 (no lab exercise)
Equipment Pod POD 2
Reserve Pod For Simms, Richard J.
Time Zone Pacific Time (US & Canada)
Start Time Friday September 1, 2006 1:30PM
End Time 1.0 hours
Initial Configuration
☒ restore configs from last AE Basic Router Pod V1 reservation (if any)
☐ no configs loaded (clean)
Confirm Reservation **Back to Calendar** **Cancel**

9) When your time slot is ready to start you will get a Enter Now button which you click on:

May 23rd (Tuesday), Skill-based assessments at the Networking Lab 5:30p - 8:30p. Please plan your lab signup times accordingly as these hours will be reserved for students taking these assessments. If you are signed up for CIS160CL (Open Lab Hours), you MUST log your hours on the CIS160CL time sheet in the Networking Lab to receive credit. If you absolutely cannot do this, please notify your instructor as soon as possible.

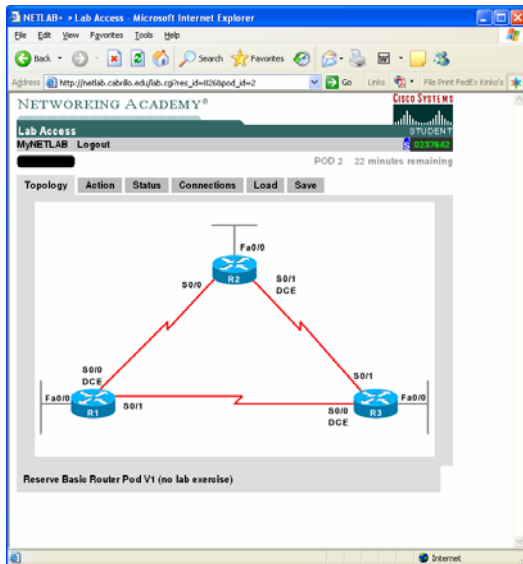
ID	DATE / TIME	DESCRIPTION	POD
026	1:30PM - 2:30PM	Simms, Richard J. (0237642) Class: CIS 83 Fall 2006 Rick Graziani	POD 2 BASIC ROUTER POD 3 Routers

[Refresh](#) this page to check for recently scheduled labs.

Scheduler Reserve lab time or check the schedule.
File Manager Manage device configuration files.
Profile Change your personal settings.
Curriculum Access class learning materials.

[Logout](#) [Help](#)
Copyright © Network Development Group, Inc.

- 10) You then start the lab and the pod initializes. Click on any of the routers R1, R2 and or R3 on the topology map to start up telnet sessions. You can have three sessions going at once.



- 11) Enter your IOS commands to configure and operate the routers as you would normally

```
Telnet netlab.cabrillo.edu
WestBranch>show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

172.30.0.0/16 is variably subnetted, 6 subnets, 2 masks
R    172.30.200.32/28 [120/21] via 192.168.1.2, 00:00:08, Serial0
R    172.30.200.16/28 [120/21] via 192.168.1.2, 00:00:08, Serial0
C    172.30.2.0/24 is directly connected, Loopback0
C    172.30.1.0/24 is directly connected, FastEthernet0
R    172.30.100.0/24 [120/21] via 192.168.1.2, 00:00:08, Serial0
R    172.30.101.0/24 [120/21] via 192.168.1.2, 00:00:08, Serial0
10.0.0.0/24 is subnetted, 1 subnets
R    10.10.10.0 [120/11] via 192.168.1.2, 00:00:09, Serial0
192.168.1.0/30 is subnetted, 2 subnets
C    192.168.1.0 is directly connected, Serial0
R    192.168.1.4 [120/11] via 192.168.1.2, 00:00:09, Serial0
R    207.16.0.0/16 [120/11] via 192.168.1.2, 00:00:09, Serial0
WestBranch>
```

12) Click I'm Done when you are ready to end your session and release the pod back so others can reserve it.

