



NetLab for Faculty

What is NDG NETLAB+?

NETLAB+ is a remote access solution that allows academic institutions to host real IT equipment, virtual machines and a wide variety of curriculum content options. NETLAB+ includes all the software needed to provide an environment through which students may schedule and complete lab exercises.



NETLAB+ offers hands-on-labs for the following:

- CCNA
- Security+
- Network+
- A+
- Ethical Hacking
- Forensics

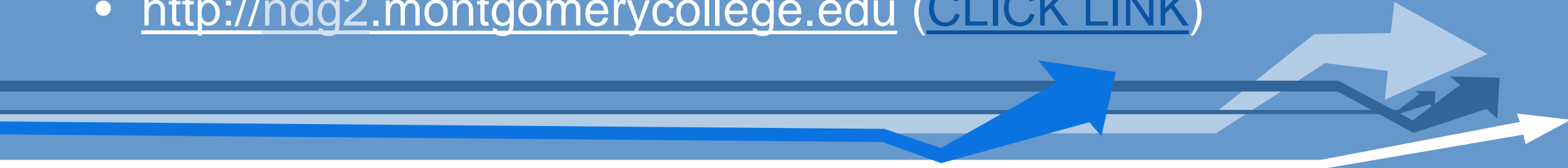
NETLAB Support and Staff Contact Information



- Germantown Campus, Montgomery College
 - HT Building (High Technology & Science Center Bldg)
 - Cybersecurity Lab, Room HT230
 - Web: <http://cms.montgomerycollege.edu/mccyberlab> ([CLICK LINK](#))
-
- Joe Roundy, Cybersecurity Program Manager
Joseph.Roundy@MontgomeryCollege.Edu
 - Cindy Huynh, Cybersecurity Lab Coordinator
Cindy.Huynh@MontgomeryCollege.Edu
- 

NETLAB-related links



- **Cybersecurity Lab > NETLAB:**
 - <http://cms.montgomerycollege.edu/mccyberlab> ([CLICK LINK](#))
 - **NETLAB NDG1 for CCNA and CCNA-Sec Labs**
 - <http://ndg1.montgomerycollege.edu> ([CLICK LINK](#))
 - **NETLAB NDG2 for Cybersecurity Labs**
(ie. A+, Network+, Security+, CEH, Forensics)
 - <http://ndg2.montgomerycollege.edu> ([CLICK LINK](#))
- 

- NETLAB NDG1 for CCNA and CCNA-Sec Labs
- <http://ndg1.montgomerycollege.edu> (CLICK LINK)



NETLAB+®

Username

Password

Login

[Forgot Password?](#)



Montgomery College Cyber Lab CCNA NETLAB+

NETLAB+® provides remote access to lab equipment and curriculum. To access, you need a user ID and password, assigned by your instructor or local system administrator.

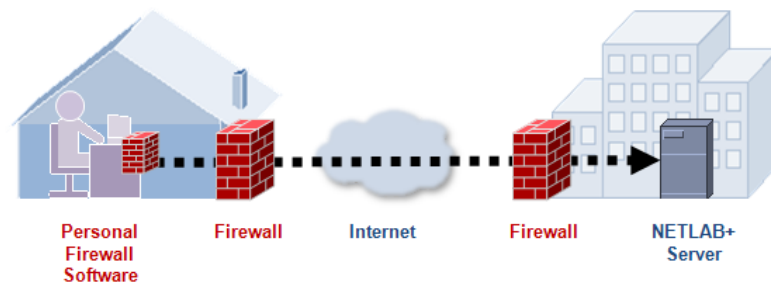
Personal firewall software can interfere with this application. If you experience login or port test failures, please disable your firewall software to determine if this is causing the problem.

Browser security settings can interfere with required features. It is recommended that you add the IP address (or host name) of this site to your browser's trusted site list. This application uses **Java™**, JavaScript, Cookies, Popup Windows, and IFRAMES. Please adjust your browser settings accordingly.

System	Web Browser	Version	Status
Windows	Mozilla Firefox	3.6.15	Supported
	Internet Explorer	8.0.6	Supported
	Apple Safari	5.0.2	Beta
	Google Chrome	7.0.517	Beta
Mac	Mozilla Firefox	3.6.15	Supported
	Apple Safari	5.0.2	Beta
Linux	Mozilla Firefox	3.6.15	Supported

Copyright © [Network Development Group, Inc.](#) The programs included herein are subject to a restricted use license and can only be used in conjunction with this application.

Remote Access Test

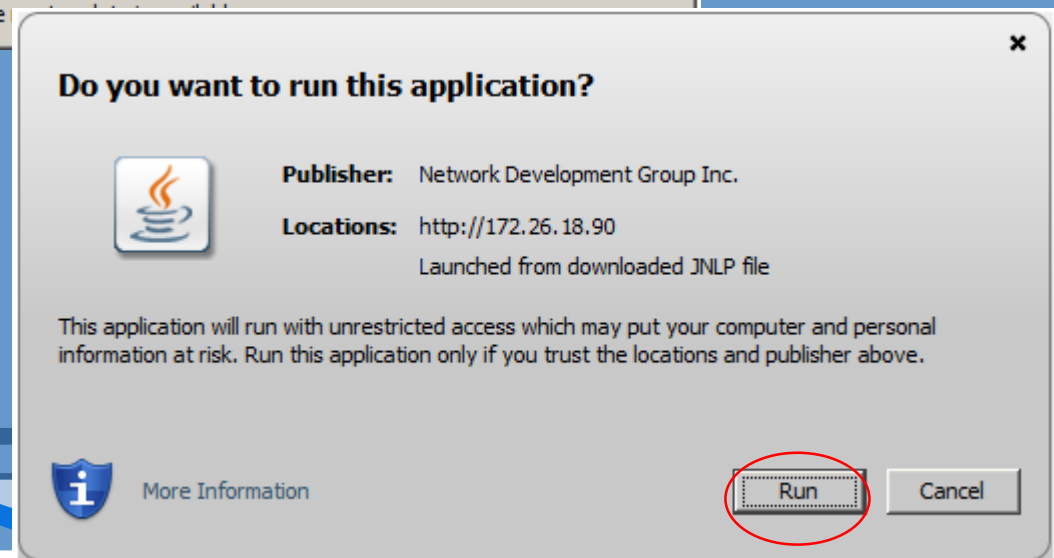
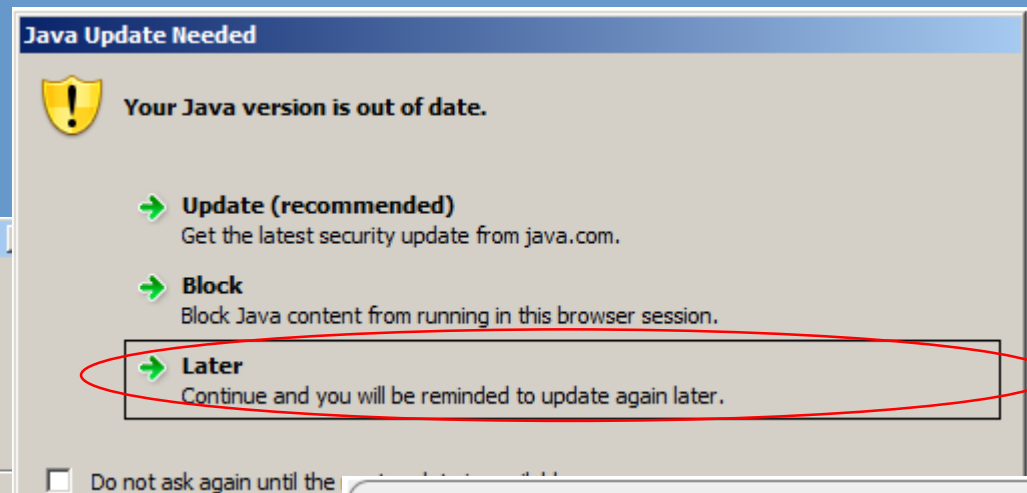
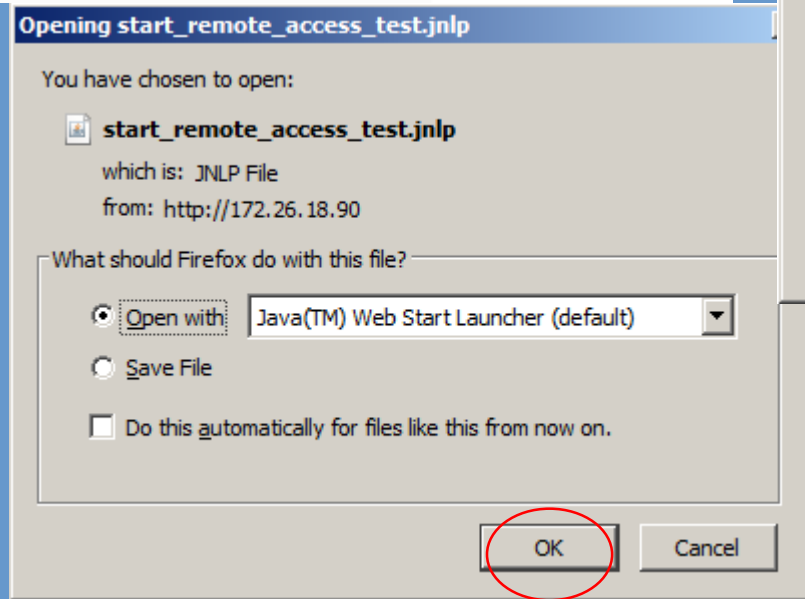
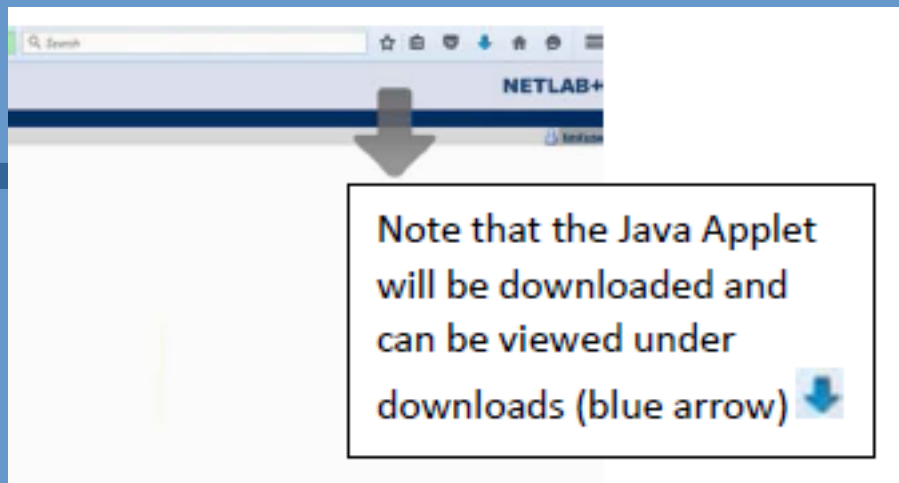


NETLAB+ will now conduct a Remote Access Test to determine if Java is working properly and to ensure your computer can connect to the NETLAB+ server without firewall interference.

After clicking Start below, you may be prompted with security confirmation questions by your browser, by Java, and your personal firewall software.

Please allow the Remote Access Test to download, to run, and let connections proceed.

You may be offered options to "always allow" or "always trust" for this NETLAB+ site. These options may eliminate the need to answer the same security questions each time you login into this NETLAB+ server in the future.



MyNETLAB



[File](#) [Scheduler](#) [Account](#) [Class](#) [Profile](#) [Archive](#) [Chat](#) [Logout](#) [Help](#) [testteacher](#)

Welcome to NETLAB+®.

Lab Reservations

There are no relevant lab reservations to display at this time.

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

Scheduler  Reserve lab time or check the schedule.	File Manager  Manage device configuration files.	Account Manager  Create or manage student and instructor accounts.	Class Manager  Create or manage classes and rosters.	Profile  Change your personal settings.
Archive  Access configurations and logs from completed labs.	Lab Designer  Create custom lab exercises for your students.	Pod Designer  Create custom equipment pods.	Chat (beta)  Chat with other users.	

[Logout](#)[Help](#)

The Class Manager is used to manage classes and rosters.

Click on the class name to manage a class.

CLASS LIST COMMUNITY: default						
CLASS NAME	LEAD INSTRUCTOR(S)	# ENROLLED	START DATE	END DATE	LABS	LAB HOURS
Class 1	John Smith	1	None	None	1	0.5
Class 2	John Smith	110	None	None	55	56.0
Class 3	John Smith	0	None	None	2	2.1
Class 4	John Smith	0	None	None	3	2.2
Class 5	John Smith	6	Jan 18, 2016	Jan 30, 2017	18	39.0
Class 6	John Smith	11	None	None	0	0.0
Class 7	John Smith	11	Nov 23, 2015	Dec 25, 2015	110	172.6
Class 8	John Smith	3	None	None	0	0.0
Class 9	John Smith	0	None	None	0	0.0
Class 10	John Smith	0	None	None	0	0.0
Class 11	John Smith	0	None	None	0	0.0
Class 12	John Smith	0	None	None	0	0.0
Class 13	John Smith	0	None	None	0	0.0
Class 14	John Smith	3	Sep 21, 2015	None	5	0.9
Class 15	John Smith	12	None	None	1	0.7
Class 16	John Smith	2	Jul 13, 2015	Jul 20, 2015	0	0.0
Class 17	John Smith	1	None	None	13	16.0
Class 18	John Smith	24	None	None	18	15.6
Class 19	John Smith	1	None	May 31, 2016	0	0.0
Class 20	John Smith	27	None	May 27, 2016	107	148.1
Class 21	John Smith	10	None	May 31, 2016	27	28.6
Class 22	John Smith	12	None	May 31, 2016	50	61.9
Class 23	John Smith	1	None	None	0	0.0
Total					410	544.2

MyNETLAB





[File](#) [Scheduler](#) [Account](#) [Class](#) [Profile](#) [Archive](#) [Chat](#) [Logout](#) [Help](#) [testteacher](#)

Welcome to NETLAB+®.

Lab Reservations

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[Logout](#)[Help](#)

N D G **NETLAB+**

Accounts

MyNETLAB Add Accounts Import Accounts testteacher

Account Search

Community default

Show

- ☒ all account types
- ☐ instructors only
- ☐ students only
- ☐ users that have never logged in
- ☐ users that have been inactive for 1 year or more

Match User ID or Name

(partial name OK, leave blank to match all)

Search

+ Import Accounts + Add Accounts Exit

Add a list of students in bulk with.csv or .txt file. Start with an excel sheet and export into .csv file.

Add accounts by manually entering the required information (username, First Name, Last Name, Email Address)

Please separate First Name Last Name in Excel



NETLAB+®

Import Accounts

MyNETLAB New Query Help Logout

testteacher



Account information may be imported into NETLAB+ from a file with these characteristics:

1. The file must be in a comma or tab delimited file format (*.csv or *.txt).
2. The first row of the file may contain column headers that identify each field to import.
3. The file may contain additional, extraneous columns of data. You will select which columns are used by NETLAB+.

For more information on how to import accounts, please refer to the [help](#) document.

Click "Submit" to continue.

Import File No file selected.

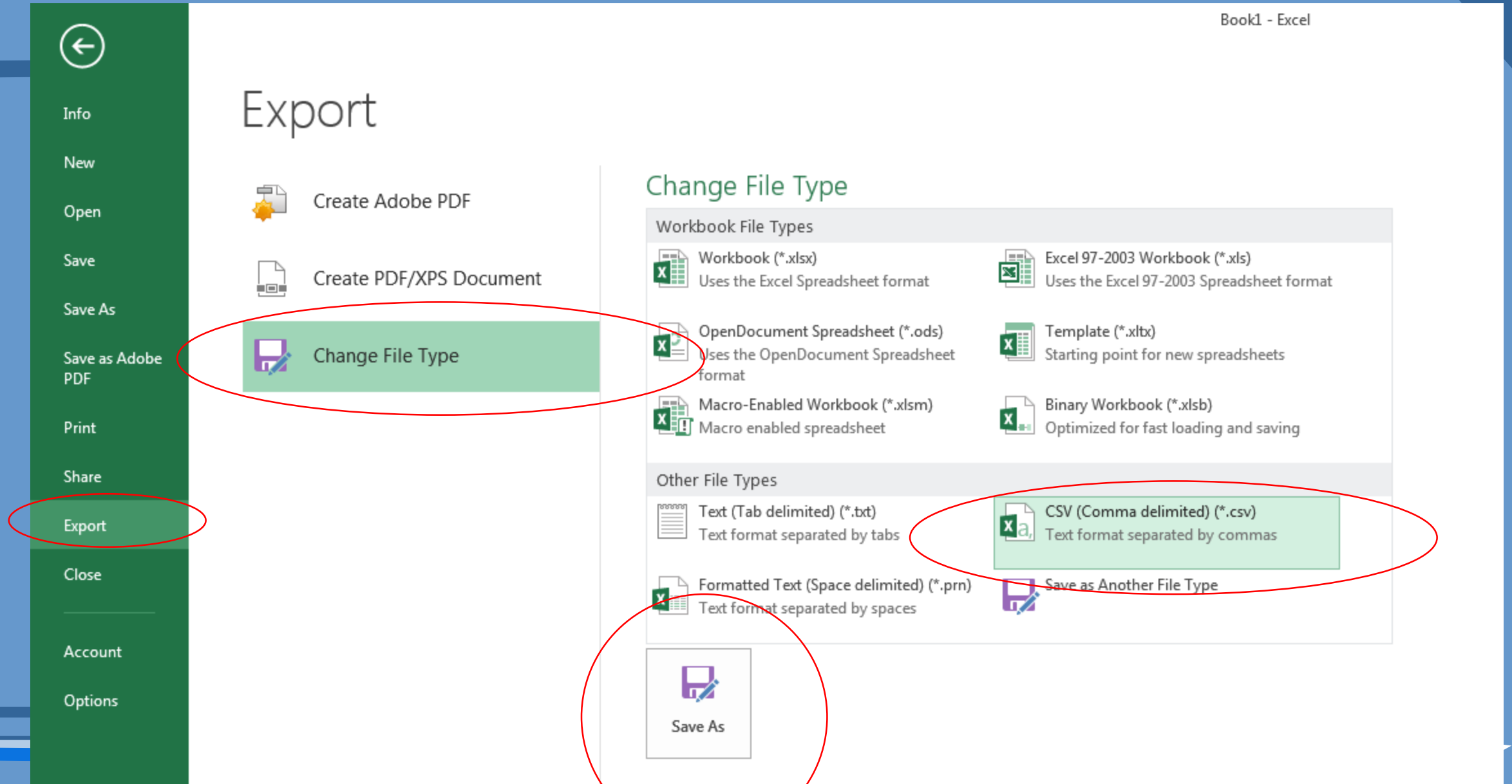
Display Name Format

☐ show help tips

The screenshot shows the Microsoft Excel interface with the following data in the worksheet:

	A	B	C	D
1	Username	First Name	Last Name	Email Address
2	tuser1	test	user1	emailaddress@montgomerycollege.edu
3	tuser2	test	user2	emailaddress@montgomerycollege.edu
4	tuser3	test	user3	emailaddress@montgomerycollege.edu
5	tuser4	test	user4	emailaddress@montgomerycollege.edu
6	tuser5	test	user5	emailaddress@montgomerycollege.edu
7	tuser6	test	user6	emailaddress@montgomerycollege.edu
8	tuser7	test	user7	emailaddress@montgomerycollege.edu
9	tuser8	test	user8	emailaddress@montgomerycollege.edu
10	tuser9	test	user9	emailaddress@montgomerycollege.edu
11				

Save the Excel file as CSV file



Go to File > Export > Change File Type > CSV > Save As



Import Accounts

MyNETLAB New Query Help Logout



Account information may be imported into NETLAB+ from a file with the following characteristics:

1. The file must be in a comma or tab delimited file format (*.csv or *.tsv).
2. The first row of the file may contain column headers that identify the data to be imported.
3. The file may contain additional, extraneous columns of data. Only the columns used by NETLAB+ will be imported.

For more information on how to import accounts, please refer to the help documentation.

Click "Submit" to continue.

Import File No file selected.

Display Name Format

☐ show help tips



NETLAB+®

Import Accounts

MyNETLAB New Query Help Logout

testteacher



The table below contains the data NETLAB+ was able to extract from the submitted file. Use the **checkboxes** to select the columns that contain the data you want NETLAB+ to use to create the accounts. Then, for each selected column, use the **drop-downs** to indicate the type of data a particular column contains.

Your input data will include some or all of the following fields, depending on the input data and name field options you have selected:

- **User ID:** A user id that is unique to each user.
- **Given/First Name:** The name given to a user at birth.
- **Family/Last Name:** The name shared by the user's family.
- **Display Name:** Typically some combination of the user's given and family names. This is the name that NETLAB+ will use when displaying information about this user. This field is required, however, NETLAB+ can generate it automatically using the given and/or family name fields.
- **Email:** An email address for the user.

Click "Submit" to continue.

testlist.csv File Data

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
User ID	Given/First Name	Family/Last Name	Email Address
tuser1	test	user1	emailaddress@montgomerycollege.edu
tuser2	test	user2	emailaddress@montgomerycollege.edu
tuser3	test	user3	emailaddress@montgomerycollege.edu
tuser4	test	user4	emailaddress@montgomerycollege.edu
tuser5	test	user5	emailaddress@montgomerycollege.edu
tuser6	test	user6	emailaddress@montgomerycollege.edu
tuser7	test	user7	emailaddress@montgomerycollege.edu
tuser8	test	user8	emailaddress@montgomerycollege.edu
tuser9	test	user9	emailaddress@montgomerycollege.edu

Add Accounts

MyNETLAB New Query

 testteacher

Enter New Account Information

Add to Community defaultInitial Password ••••••••Retype Initial Password

Automatic Name Generation Options:

Enable Auto-Generation ☐ (auto-generate select name field(s) during data entry)Name Generation Type Generate None - Manual EntryDisplay Name Format Given/First Family/Last☒ Generate All Display Names Now

	User ID	Given/First Name	Family/Last Name	Display Name	Type	E-mail Address (optional)	Status
1	tuser1	test	user1	test user 1	student	emailaddress@montgomeryc	Enter new user or leave blank
2	tuser2	test	user2	test user 2	student	emailaddress@montgomeryc	Enter new user or leave blank
3	tuser3	test	user3	test user 3	student	emailaddress@montgomeryc	Enter new user or leave blank
4	tuser4	test	user4	test user 4	student	emailaddress@montgomeryc	Enter new user or leave blank
5	tuser5	test	user5	test user 5	student	emailaddress@montgomeryc	Enter new user or leave blank
6	tuser6	test	user6	test user 6	student	emailaddress@montgomeryc	Enter new user or leave blank
7	tuser7	test	user7	test user 7	student	emailaddress@montgomeryc	Enter new user or leave blank
8	tuser8	test	user8	test user 8	student	emailaddress@montgomeryc	Enter new user or leave blank
9	tuser9	test	user9	test user 9	student	emailaddress@montgomeryc	Enter new user or leave blank

☒ Submit☐ Cancel

Enter the initial password again and retype the password to send to the students. (ex. Password1). Provide username/password information to the students.

Add Accounts

MyNETLAB New Query

testteacher

All Requested Accounts Were Added

Add to Community

Initial Password

Automatic Name Generation Options:

Enable Auto-Generation ☒ (auto-generate select name field(s) during data entry)

Name Generation Type

Display Name Format

Generate All Display Names Now

	User ID	Given/First Name	Family/Last Name	Display Name	Type	E-mail Address (optional)	Status
1	testteacher1	test	teacher	test teacher	student		added
2							
3							
4							
5							
6							
7							
8							
9							
10							

Please select 'Add These Accounts to a Class'

I'm Done

Add These Accounts to a Class


Add Accounts to Class Roster

MyNETLAB

 testteacher

To which class should the accounts be added?

CLASS LIST				
CLASS NAME	LEAD INSTRUCTOR(S)	# ENROLLED	START DATE	END DATE
<input type="radio"/> Class 1	Lead Instructor	1	None	None
<input type="radio"/> Class 2	Lead Instructor	110	None	None
<input type="radio"/> Class 3	Lead Instructor	0	None	None
<input type="radio"/> Class 4	Lead Instructor	0	None	None
<input type="radio"/> Class 5	Lead Instructor	6	Jan 18, 2016	Jan 30, 2017
<input type="radio"/> Class 6	Lead Instructor	11	None	None
<input type="radio"/> Class 7	Lead Instructor	11	Nov 23, 2015	Dec 25, 2015
<input type="radio"/> Class 8	Lead Instructor	3	None	None
<input type="radio"/> Class 9	Lead Instructor	0	None	None
<input type="radio"/> Class 10	Lead Instructor	0	None	None
<input type="radio"/> Class 11	Lead Instructor	0	None	None
<input type="radio"/> Class 12	Lead Instructor	0	None	None
<input type="radio"/> Class 13	Lead Instructor	3	Sep 21, 2015	None
<input type="radio"/> Class 14	Lead Instructor	12	None	None
<input type="radio"/> Class 15	Lead Instructor	2	Jul 13, 2015	Jul 20, 2015
<input type="radio"/> Class 16	Lead Instructor	1	None	None
<input type="radio"/> Class 17	Lead Instructor	24	None	None
<input type="radio"/> Class 18	Lead Instructor	1	None	May 31, 2016
<input type="radio"/> Class 19	Lead Instructor	27	None	May 27, 2016
<input type="radio"/> Class 20	Lead Instructor	10	None	May 31, 2016
<input type="radio"/> Class 21	Lead Instructor	12	None	May 31, 2016
<input type="radio"/> Class 22	Lead Instructor	1	None	None

 Cancel

You can add the students in bulk to only one of the classes.

Under the 'CLASS NAME' select one.

Add These Accounts to a Class (alternate method)

Otherwise, go to Main Page > Create or manage student and instructor accounts

Add the selected students to only one of the classes.
Under the 'CLASS NAME' select one.

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MyNETLAB
File Scheduler Account Class Profile Archive Chat Logout Help

Welcome to NETLAB+®.

Lab Reservations
There are no relevant lab reservations to display at this time.
[Refresh](#) this page to check for recently scheduled labs.

Scheduler

Reserve lab time or check the schedule.

File Manager

Manage device configuration files.

Account Manager

Create or manage student and instructor accounts.

Class Manager

Create or manage classes and rosters.

Archive

Access configurations and logs from completed labs.

Lab Designer

Create custom lab exercises for your students.

Pod Designer

Create custom equipment pods.

Chat (beta)

Chat with other users.

[Logout](#) [Help](#)

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CLASS NAME	LEAD INSTRUCTOR(S)	# ENROLLED	START DATE	END DATE
testteacher	test teacher	default	CCNA	
testteacher1	test teacher	default	CCNA	
testuser	test user	default	CCNA	

Perform Action on Selected Accounts: **Add to Class Roster** **Go**

[New Search](#) [Import Accounts](#) [Add Accounts](#) [Exit](#)

NDG
NETLAB+®
Add Accounts to Class Roster
MyNETLAB [testteacher](#)

To which class should the accounts be added?

CLASS NAME	LEAD INSTRUCTOR(S)	# ENROLLED	START DATE	END DATE
testteacher	test teacher	1	None	None
testteacher1	test teacher	110	None	None
testuser	test user	0	None	None
testteacher	test teacher	0	None	None
testteacher1	test teacher	6	Jan 18, 2016	Jan 30, 2017
testuser	test user	11	None	None
testteacher	test teacher	11	Nov 23, 2015	Dec 25, 2015
testteacher1	test teacher	3	None	None
testuser	test user	0	None	None
testteacher	test teacher	0	None	None
testteacher1	test teacher	0	None	None
testuser	test user	0	None	None
testteacher	test teacher	3	Sep 21, 2015	None
testteacher1	test teacher	12	None	None
testuser	test user	2	Jul 13, 2015	Jul 20, 2015
testteacher	test teacher	1	None	None
testteacher1	test teacher	24	None	None
testuser	test user	1	None	May 31, 2016
testteacher	test teacher	27	None	May 27, 2016
testteacher1	test teacher	10	None	May 31, 2016
testuser	test user	12	None	May 31, 2016
testteacher	test teacher	1	None	None

[Cancel](#)

Perform Action on Selected Accounts: Add to Class Roster

Resetting Student Account Passwords

Go to Main Page > Create or manage student and instructor accounts

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File Scheduler Account Class Profile Archive Chat Logout Help

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Access configurations and logs from completed labs.

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Pod Designer



Create custom equipment pods.

Chat (beta)



Chat with other users.



Logout



Help

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Table of accounts:

USER ID	NAME	TYPE	COMMUNITY	STATUS
testteacher	test teacher	student	default	eligible for password reset
testteacher1	test teacher	student	default	eligible for password reset
testuser	test user	student	default	eligible for password reset

Perform Action on Selected Accounts:

- Add to Class Roster
- Add to Class Roster
- Reset Password

Buttons: New Search, Import, Delete, Accounts, Exit

Type the Temporary Password and Retype the Temporary Password. Provide the temporary password to the selected students.

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Reset Passwords

MyNETLAB

testteacher

ACCOUNTS SELECTED FOR PASSWORD RESET

USER ID	NAME	TYPE	COMMUNITY	STATUS
testteacher1	test teacher	student	default	eligible for password reset

Enter a temporary login password for the selected users. Upon login, each user will be required to select a new password.

Temporary Password

Retype Temporary Password

OK

Cancel

Perform Action on Selected Accounts: **Reset Password**

Setting up NETLAB Check-List



Set-up:

- ☐ Students
- ☐ Class
- ☐ Lead-Instructor

(Optional):

- ☐ Teams (ie. Divide Students into Groups)
- 

Using NETLAB

Go to Main Page > Reserve lab time or check the schedule

NDG

MyNETLAB

File Scheduler Account Class Profile Archive Chat Logout Help

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Logout



Help

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NDG

Scheduler

MyNETLAB Logout

NETLAB+®

testteacher



The scheduler allows you to make lab reservations.

View or cancel reservations

View only or manage reservations made by students. To take a class, see last option below.

Reserve instructor-led training time for a class

You must set up: a **class** with its student roster, instructor leads, and pod assignments. **Seek Joe Roundy for assistance with any issues or requests for pod assignments.**

Reserve self-study time for teams

Students can be divided into up to 26 different teams or groups labeled from A-Z.

Reserve self-study time for individual learners

Reserve equipment pod for **unlimited** specified amount of time for teacher usage. Handles Pod virtual equipment.



Reserve an equipment pod for your own use


If you are registered as a learner for the Class, such as 'CCNA', you create a reservation for it here. Maximum limit of 4 hours maximum reservation.


Reserve lab time in a class that you are attending as a learner

Cancel


View only or manage reservations made by students.





Scheduler
MyNETLAB Logout  testteacher





The scheduler allows you to make lab reservations.


 View or cancel reservations


 Reserve instructor-led training time for a class

 Reserve self-study time for teams

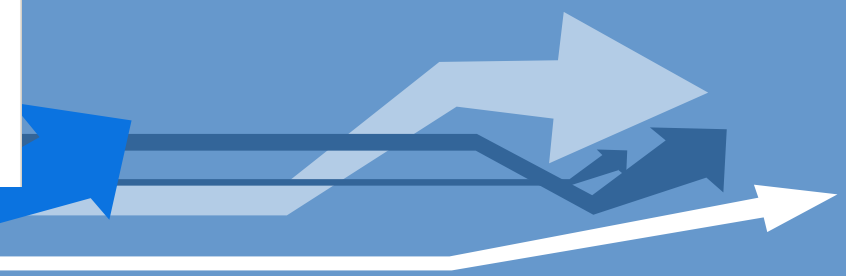
 Reserve self-study time for individual learners

 Reserve an equipment pod for your own use

 Reserve lab time in a class that you are attending as a learner

 Cancel

View only or manage reservations made by students.
To take a class, see last option below.





OPTIONAL since users can reserve lab time on their own


NDG**NETLAB+**


Scheduler


MyNETLAB Logout testteacher


The scheduler allows you to make lab reservations.


 View or cancel reservations


 Reserve instructor-led training time for a class

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 Reserve self-study time for individual learners

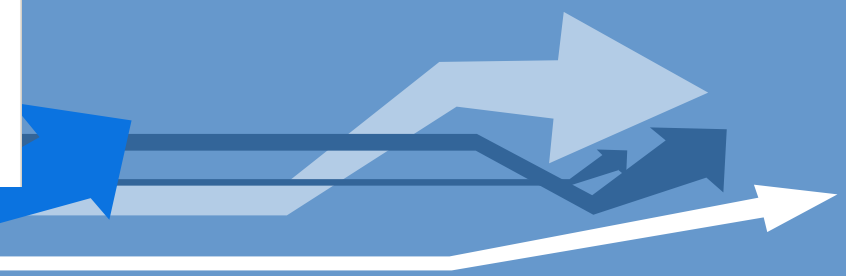
 Reserve an equipment pod for your own use

 Reserve lab time in a class that you are attending as a learner

 Cancel

You must set up: a **class** with its student roster, instructor leads, and pod assignments. **Seek Joe Roundy for assistance with any issues or requests for pod assignments.**


Students can be divided into up to 26 different teams or groups labeled from A-Z.





Free Play Mode – For Lab Designing (Not Recommended)


NDG**NETLAB+**


Scheduler
MyNETLAB Logout testteacher


The scheduler allows you to make lab reservations.


+  View or cancel reservations


+  Reserve instructor-led training time for a class

+  Reserve self-study time for teams

+  Reserve self-study time for individual learners

+  Reserve an equipment pod for your own use

+  Reserve lab time in a class that you are attending as a learner

 Cancel

Reserve equipment pod for **unlimited** specified amount of time for teacher usage. Handles Pod virtual equipment.

Please cancel reservation when not in use!!!

Topology

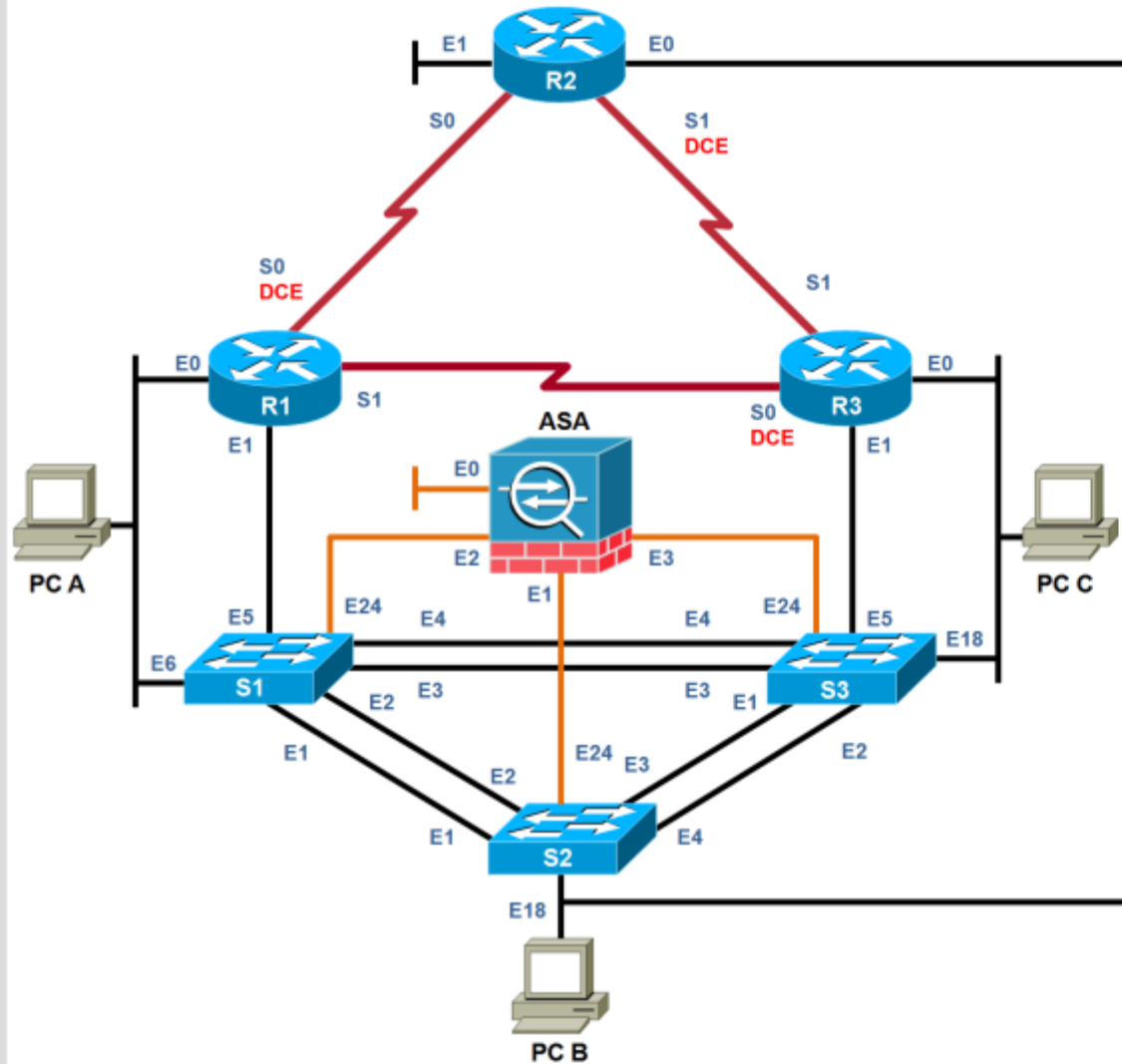
Action

Status

Connections

Load

Save



NETLAB+ CLI Terminal

Terminal Edit Sharing Preferences Help


Switch con0 is now available


Press RETURN to get started.


Individual Lab Usage


NDG**NETLAB+**


Scheduler
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The scheduler allows you to make lab reservations.


+  View or cancel reservations


+  Reserve instructor-led training time for a class

+  Reserve self-study time for teams

+  Reserve self-study time for individual learners

+  Reserve an equipment pod for your own use

+  Reserve lab time in a class that you are attending as a learner

 Cancel

If you are registered as a learner for the Class, such as **CCNA**, you create a reservation for it here.
Maximum limit of 4 hours maximum reservation.
Please cancel reservation when not in use!!!

NETLAB-related links



- **Cybersecurity Lab > NETLAB:**
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- **NETLAB NDG1 for CCNA and CCNA-Sec Labs**
- <http://ndg1.montgomerycollege.edu> ([CLICK LINK](#))
- **NETLAB NDG2 for Cybersecurity Labs**
(ie. A+, Network+, Security+, CEH, Forensics)
- <http://ndg2.montgomerycollege.edu> ([CLICK LINK](#))

NOTE! Accounts and passwords on NDG1 AND NDG2 are separate. If you change or reset a password on one website, you may need to change it on the other website as well!!!