



Basic Switch Pod – Version 1

Planning and Installation Guide

For Cisco Networking Academy® **CCNA 3.x** Curriculum

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NETLAB Academy Edition features two variations of the Basic Switch Pod. You may implement either pod type based on available resources.

- **Version 1** (this guide) **does not support PCs**.
- **Version 2** (separate guide) **supports remote PCs** using VMware Server.

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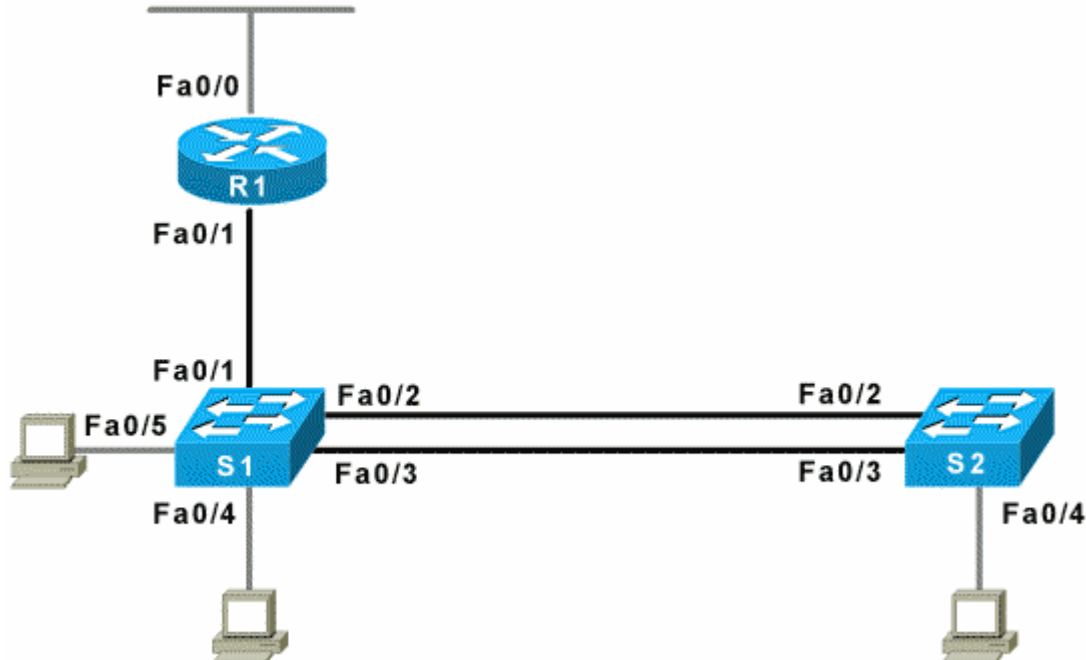
PART 1 – PLANNING

1 Introduction

NETLAB Academy Edition[®] features three pods for use with the CCNA 3.x curriculum, Basic Router Pod, Basic Switch Pod, and Advanced Router Pod. This guide documents the NETLAB_{AE} Basic Switch Pod, used with *CCNA 3.x Switch Labs*.

NETLAB Academy Edition features two variations of the Basic Switch Pod. You may implement either pod type based on available resources.

- **Version 1** (this guide) **does not support PCs**.
- **Version 2** (separate guide) **supports remote PCs** using VMware Server.



The Basic Switch Pod contains one router and two switches. You may have up to eight Basic Switch Pods per NETLAB_{AE} system. The NETLAB_{AE} Basic Switch Pod features direct access to the console of router R1, and switches S1 and S2.

1.1 Lab Orientation

This document assumes that you are familiar with the CCNA 3.x curriculum and labs.

1.2 Deviations

Users often contact our technical support team for lab-related problems. Users are typically not aware that there are many NETLAB_{AE} servers and may be easily confused by local deviations from the standard curriculum and labs.

If your NETLAB_{AE} pods will be made accessible outside your local Academy, please be conservative in your deviations and substitutions.

Even if your user community is local or relatively small, we recommend that you (1) document the specifics of your pods and (2) use the NETLAB_{AE} *News and Announcements* feature to point users to your documentation.

2 Lab Device Requirements

Lab devices are part of the topology and users can interact with them either directly or indirectly.



The Basic Switch Pod includes one router, R1.



The Basic Switch Pod includes two switches, S1 and S2.

The following table depicts the interface requirements for each device:

Router	Ethernet Interfaces Required	Serial Interfaces Required
R1	2	0
S1	12	0
S2	12	0

The R1 Ethernet 0 interface must be a built-in interface, which is capable of activation from the ROM monitor mode. This interface connects to a control switch. All NETLAB_{AE} supported routers have at least one Ethernet interface that meets this requirement.

The R1 Ethernet 1 interface connects to switch S1. **This interface must support 802.1q to be compatible with trunking labs.**

NETLAB Academy Edition[®] has an interface name translation feature that allows configuration files to be loaded without errors on different router platforms. As a configuration is being loaded, NETLAB_{AE} will substitute the correct interface names if necessary. To do this, NETLAB_{AE} maintains a fixed table of interface names that should present on each router model. This may influence the selection of modular interface cards and slot placement within router R1. The NETLAB_{AE} hardware support web pages depict the expected interface names for each router model.

NETLAB_{AE} has been designed to support a broad range of hardware to allow great flexibility with equipment selection

Keep in mind that the hardware you select must meet both these requirements:

1. Supported by NETLAB_{AE}.
2. Meet the specifications for the lab exercises of the curriculums your Academy wishes to implement.

Due to the dynamic nature of curriculum requirements, NDG makes no guarantee that every NETLAB_{AE} supported device will meet all curriculum or lab requirements.

We strongly recommend that a knowledgeable person carefully study the curriculum and labs taught by your Academy before deploying a NETLAB_{AE} lab bundle (pod) or specific Cisco equipment model. NDG makes no guarantee that every NETLAB_{AE} supported device will meet all curriculum or lab requirements.

To aid in this study we recommend using the following resources:

- Review the information provided on the NETLAB_{AE} website for information on NETLAB_{AE} supported equipment and IOS images. Not all NETLAB_{AE} supported equipment is an ideal choice for some of the Cisco Networking Academy curriculum modules or labs.
<http://www.netdevgroup.com/netlab/hardware.htm>
- Consult your Cisco Networking Academy Program contact.
- Consult your Cisco sales representative.

3 Control Device Requirements

NETLAB_{AE} *control devices* provide internal connectivity, console access, and managed power. Control devices are dynamically managed by NETLAB_{AE} and are not accessible or configurable by end users.

⇒ Management of control devices is covered in the *NETLAB+ Administrator Guide*.

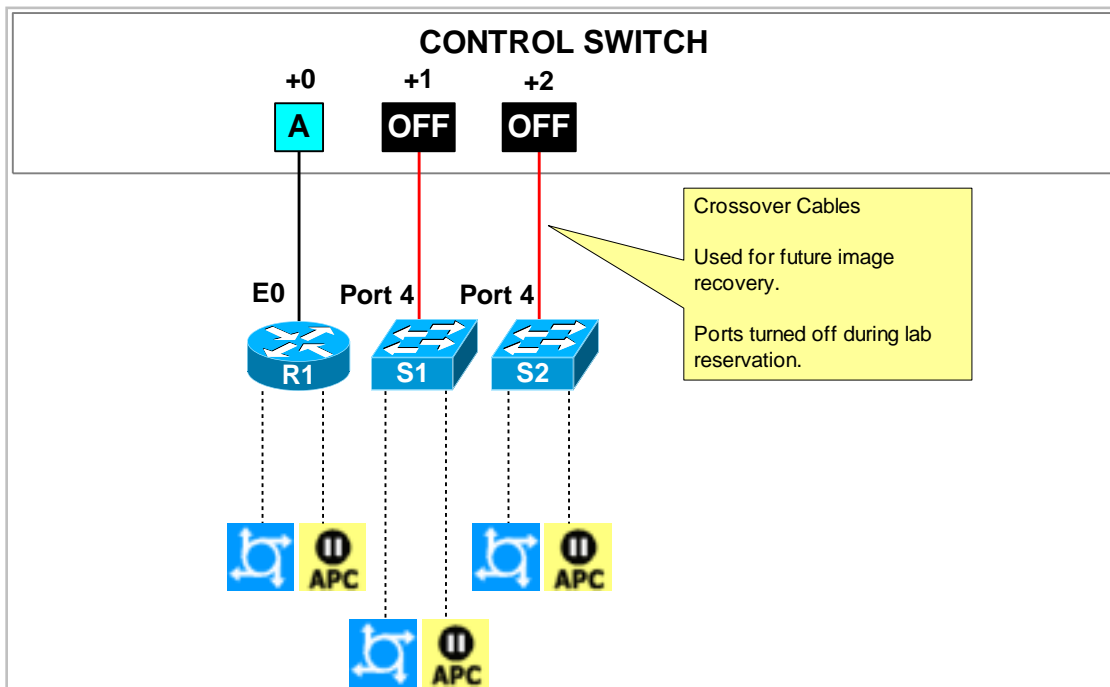
The Basic Switch Pod requires the following control device resources:

Control Device Resource	Quantity Required
Control Switch	3 Consecutive ports
Access Server	3 lines
Switched Outlet Devices	3 outlets

3.1 Control Switch Overview



NETLAB_{AE} uses a control switch to provide connectivity between devices in the Basic Switch Pod.



The Basic Switch Pod requires 3 consecutive ports on a control switch.

Ports are labeled +0 to +2 in the diagram and are relative to the *base port* of your choice. As with all pods, you choose a base port for the Basic Switch Pod. To determine the actual port numbers, simply add the base port number chosen for this pod to the depicted relative port numbers. For example, if the base port is 5, the actual port numbers will be 5 to 7.

Using SNMP, NETLAB_{AE} will automatically assign and program a VLAN on port +0. Each NETLAB_{AE} pod has a unique *VLAN pool* and the actual VLAN numbers will be unique for each NETLAB_{AE} pod. This is to avoid conflict between pods.

Ports +1 and +2 are turned off during lab reservations. This may change in future versions of NETLAB_{AE}. NDG currently uses ports +1 and +2 for troubleshooting switches S1 and S2, and as a network path for IOS image upgrades.

3.2 Access Server



Access servers provide console connections to lab routers, lab switches, and lab firewall devices so that users can access these devices from NETLAB_{AE}. The Basic Switch Pod requires three access server ports. These ports provide console access to R1, S1 and S2.

3.3 Switched Outlets



Switched outlets provide managed electrical power, allowing NETLAB_{AE} and users to turn lab equipment on and off. The Basic Switch Pod requires a switched outlet for R1, S1 and S2.

PART 2 - IMPLEMENTATION

4 Pre-requisites

This section covers tasks that should be executed prior to adding a Basic Switch Pod.

4.1 Setup Control Devices



Using the guidelines in section 3, decide which control switch ports, access server ports, and switched outlets you will use for your Basic Switch Pod.



Add control devices if necessary. Control device configuration is documented in the *NETLAB+ Administrator Guide*.

4.2 Upload IOS Images



Upload an IOS image for R1. NETLAB_{AE} will recover the image on the router if it is erased from flash.

4.3 Disable User Logins (optional)



You must take all equipment pods offline to add pods or configure control devices. You may wish to disable user logins during this time.

5 Adding the Pod


This section walks you through the process of adding a Basic Switch Pod using the NETLAB_{AE} New Pod Wizard.

5.1 Start the New Pod Wizard



Login to the administrator account.

Select Equipment Pods.

Select  Take All OFFLINE if any of the pods are online. Caution: this will cancel any reservations in progress.

Select  Add a Pod.

The New Pod Wizard will now help you add an equipment pod to your system.

5.2 Add a Basic Switch Pod




When prompted, select Basic Switch Pod.

5.3 Select Control Switch and Ports

A Basic Switch Pod requires 3 consecutive control switch ports. NETLAB_{AE} will present a list of the control switches on your system. Switches that meet the port requirement can be selected. Choose one control switch for your new pod.

CONTROL SWITCHES				
SELECT	ID	SWITCH TYPE	PORTS THAT ARE FREE	COMMENT
INELIGIBLE	1	Catalyst 2950-24	PORT 7-8, 12, 16	NOT ENOUGH CONSECUTIVE PORTS
	2	Catalyst 2950-24	PORT 14-16	OK TO USE
	3	Catalyst 2950-24	PORT 9-16	OK TO USE

Next, select the ports you want to use.

 You have chosen control switch 2.

A Basic Switch Pod requires 3 consecutive control switch ports.

Which free 3-port range would you like to use? Ports 14 to 16 ▾

➔ Next ⬅ Back ✖ Cancel

5.4 Select Access Server(s) and Ports

A Basic Switch Pod requires 3 access server ports.

It is a good idea to use consecutive ports on one access server if possible. This practice will make it easier to cable and troubleshoot. If consecutive ports are not available, you can use non-consecutive ports, on different access servers if necessary.

When specifying ports, use the port numbers shown on the access server itself. Some models start at port 1 (Cisco 2509 and 2511) and others start at port 0 (Cisco NM-16A and NM-32A modules).

NETLAB_{AE} allows you to choose consecutive ports on one access server, or you can choose “Let me pick” to select an access server and port for each device.

ACCESS SERVERS		
ID	TYPE	PORTS THAT ARE FREE
1	NM-32A Module in Cisco Router	5, 11, 19-31
2	NM-32A Module in Cisco Router	0-4, 8-31
3	Cisco 2511-RJ	3, 5-9, 12-16

A Basic Switch Pod requires 3 access server ports.

Use 3 consecutive ports on access server 1 ▾ starting at port 0 ▾

Let me pick the access server and ports for each device

➔ Next ⬅ Back ✖ Cancel

“Let me pick”, allows you to make granular selections.

SELECT AN ACCESS SERVER AND PORT FOR EACH LAB DEVICE		
LAB DEVICE	ACCESS SERVER (ID)	PORT
R1	2	14
S1	3	15
S2	3	16

5.5 Select Switched Outlets

A Basic Switch Pod requires 3 switched outlets.

It is a good idea to use consecutive outlets on one switched outlet device (SOD) if possible. This practice will make it easier to cable and troubleshoot. If consecutive outlets are not available, you may use non-consecutive outlets, spanning multiple SODs if necessary.

SWITCHED OUTLET DEVICES (SOD)		
ID	TYPE	OUTLETS THAT ARE FREE
1	APC 9211 MasterSwitch	6-8
2	APC 9211 MasterSwitch	4
3	APC 9211 MasterSwitch	NO FREE OUTLETS
4	APC 7900 Switched Rack PDU	1-2, 5

A Basic Switch Pod requires 3 switched outlets.

Use 3 consecutive outlets on switched outlet device 1 starting at outlet 1

 Let me pick select outlets for each device manually

“Let me Pick”, will allow you to make granular selections.

SELECT A SWITCHED OUTLET FOR EACH LAB DEVICE		
LAB DEVICE	SOD	OUTLET
R1	1	7
S1	2	4
S2	1	6




5.6 Select Lab Device Types

Please specify a model for R1, S1 and S2.

⇒ Your selections are used to assign the appropriate NETLAB_{AE} device driver.

⇒ Improper selections may cause errors.




⇒ NETLAB_{AE} may offer selections that meet the port requirements, but do not support the curriculum. See section 2

SELECT A MODEL FOR EACH LAB DEVICE		
LAB DEVICE	TYPE	MODEL
R1	 Router	Cisco 2621XM
S1	 Switch	Cisco 2950-24
S2	 Switch	Cisco 2950-24

5.7 Select Software Images and Recovery Options

NETLAB_{AE} scrubs R1 at the end of lab reservation or upon request. During a scrub, NETLAB_{AE} can recover an IOS image if it has been erased from flash.

For some lab devices, flash erasure is not possible. Lab devices for which flash erasure is not possible will not have flash recovery options.

SELECT AN IMAGE AND RECOVERY OPTIONS FOR EACH LAB DEVICE			
DEVICE	TYPE	SOFTWARE IMAGE	RECOVER USING SPECIFIED IMAGE
R1	 Cisco 2621XM	c2600-js-mz.120-5.T1.bin	if specified image not in flash
S1	 Cisco 2950-24	N/A	if specified image not in flash if no image in flash (erased) never (device may become unusable)
S2	 Cisco 2950-24	N/A	N/A

You have three choices for flash recovery:

Recovery Using Specified Image	During A Scrub Operation...
If specified image not in flash	Restores the selected software image if that image is not in flash.
If no image in flash (erased)	Restores the selected software image if there are no .bin images in flash. No action is taken if flash contains a .bin image (even if it is not the specified one).
Never (device may become unusable)	NETLAB _{AE} will take no action if the flash does not contain a bootable image. In this case, NETLAB _{AE} automated boot process will fail and manual restoration of IOS will be required.

⇒ If you select an automatic recovery option, you must also select a software image supported by the curriculum (see 2).

5.8 Select a Pod ID

Each pod is assigned a unique numeric ID.

Each equipment pod is assigned a unique numeric ID.

Please select a Pod ID.

Pod ID:

5.9 Select a Pod Name

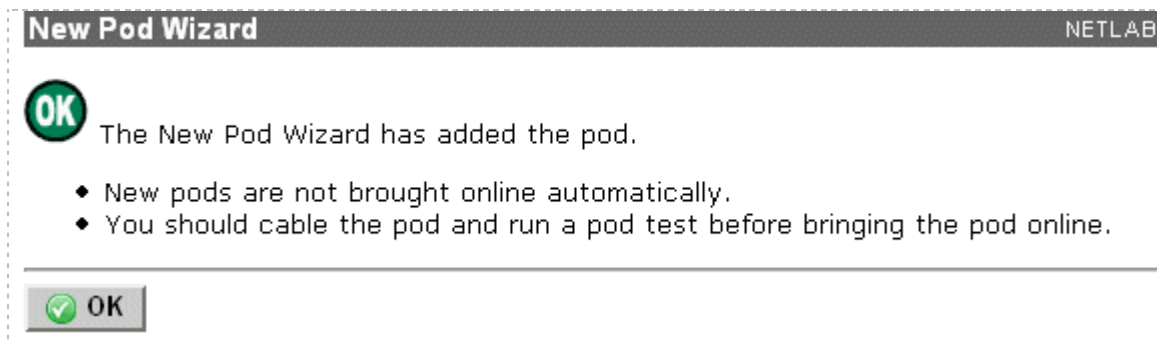
Each pod can have a unique name. This name will appear in the scheduler, along with the pod type.

Each equipment pod is assigned a unique name.

Pod Name:

5.10 Verify Your Settings

At this point NETLAB_{AE} has added the pod to its database. However, the pod has not been brought online yet. You will want to cable up the pod and run a pod test before bringing the pod online. These tasks are discussed in the remaining sections.
















After you click OK, the new pod will appear in the list of equipment pods.

Click on the magnifier button or pod ID to manage your new pod.

	BASIC SWITCH POD 8  1 Router 2 Switches	Redstar	 OFFLINE	IDLE
---	---	---------	---	------

NETLAB_{AE} will display the status of the pod and the high-level settings for each device, PC, and control switch.

POD 8 - ROUTERS, SWITCHES, AND FIREWALLS (click on the GO buttons to reconfigure devices)					
GO	NAME	TYPE	ACCESS PORTS	SWITCHED OUTLETS	SOFTWARE IMAGE
	 R1	Cisco 2621XM	 AS 2 PORT 14	 SOD 1 OUTLET 7	c2600-js-mz.120-5.T1.bin
	 S1	Cisco 2950-24	 AS 3 PORT 15	 SOD 2 OUTLET 4	n/a
	 S2	Cisco 2950-24	 AS 3 PORT 16	 SOD 1 OUTLET 6	n/a


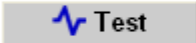
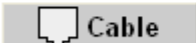

POD 8 - CONTROL SWITCH				
SWITCH ID	POD PORT RANGE	BASE VLAN	VLAN POOL	
 2	14-16	170	170-172	











6 Cable the Pod

Use the NETLAB_{AE} cable chart feature to help you connect the lab devices in your pod. The chart is generated in real-time and contains port-specific information based on your current lab device and control device settings.

The cable chart function is accessed from the pod management page.

Pod 8 -- Management Options

-  **Online** Bring this pod ONLINE and make it available for reservations.
-  **Test** Tell me if this pod is working properly.
-  **Cable** Show me how to cable this pod.
-  **Delete** Remove this pod from NETLAB.

CABLE CHART FOR POD 8			
 R1 (Cisco 2621XM)			
CONNECT FROM	USING CABLE	CONNECT TO	
FastEthernet0/0	CAT-5 Straight Through	 C/S 2	Port 14
FastEthernet0/1	CAT-5 Straight Through	 S1	Port 1
Console	Console Cable	 A/S 2	Port 14
Power	Power Cord	 SOD 1 	Outlet 7
 S1 (Cisco 2950-24)			
CONNECT FROM	USING CABLE	CONNECT TO	
Port 1	CAT-5 Straight Through	 R1	FastEthernet0/1
Port 2	CAT-5 Crossover	 S2	Port 2
Port 3	CAT-5 Crossover	 S2	Port 3

7 Switch Configuration Tasks

The Basic Switch Pod requires additional switch configuration tasks for successful operation. Using Hyperterm or other terminal, connect to the console port of the control switch in which the Basic Switch Pod is connected. The following passwords are used on the control switch.

Console login password	router
Enable secret password	cisco

Please do not change the passwords – they are used NETLAB+ automation and technical support.

7.1 Verify Control Switch IOS Version

Each control switch should be running **IOS 12.1(22)EA2 or later**. Earlier versions may have defects that affect NETLAB_{AE}.

7.2 Configure Control Switch Ports

There are three essential commands that must be manually configured on each control switch port that connects to a lab switch (S1 and S2 in this case).

- **spanning-tree bpdupfilter enable**
 - Instructs control switch port not to send and receive spanning tree BPDU frames to and from the lab switch.
 - Spanning tree in the lab must not mingle with spanning tree on the control switch. This would cause several undesirable effects in both the lab and on the control switches.
- **switchport mode access**
 - Prevents the link from becoming a trunk port.
 - The labs will not work as designed if the link between control switch and lab switch is trunking.
 - Trunking on ports that should be access ports, combined with BPDU filtering, creates loops that are not prevented by spanning-tree.
- **no cdp enable**
 - Disabling CDP is not critical, but will hide the control switch from lab switch users performing CDP commands.

Do not omit these commands! Without them, loops will form causing high CPU utilization, error-disabled ports, and connectivity loss. These commands are specific to switch pods and are not automatically configured.

Locate the 3 control switch ports connecting to S1 and S2. Refer to the cabling diagram if necessary (see section 6). The following commands must be manually added to each switch port.

Example switch port configuration. Interface numbers will vary.

```
interface FastEthernet0/2
description port to S1 port 2 (PC1a)
switchport mode access
spanning-tree bpdudfilter enable
no cdp enable

interface FastEthernet0/3
description port to S1 port 3 (PC1b)
switchport mode access
spanning-tree bpdudfilter enable
no cdp enable

interface FastEthernet0/4
description port to S2 port 2 (PC2)
switchport mode access
spanning-tree bpdudfilter enable
no cdp enable
```

If the control switch does not recognize the **spanning-tree bpdudfilter** command, make sure the switch is running at least 12.1(22)EA2.

7.3 Initial Lab Switch Setup

Several switch models are subject to a common problem when used as a **lab switch**. These include (but not limited to):

- Cisco Catalyst 2900 XL Series Switches
- Cisco Catalyst 2950 Series Switches
- Cisco Catalyst 3550 Series Switches
- Cisco Catalyst 3560 Series Switches

By default, these switches will not respond to a console break signal the same way routers do. There are two *environment variables*, which affect this: **Enable Break** and **BOOT path-list**.

The following procedure explains how to check these variables and set them so that the console port will respond to a break signal.

When to Use

You must initialize the environment variables when:

- Installing a lab switch for the first time.
- The Enable Break environment variable is set to "no".
- The BOOT path-list environment variable is set.

This procedure does not apply to control switches.

Determining the Boot Status

From the enable mode, issue the following IOS command.

```
Lab_Sw# show boot

BOOT path-list:      flash:c2950-i6q412-mz.121-22.EA4.bin
Config file:         flash:config.text
Private Config file: flash:private-config.text
Enable Break:        no
Manual Boot:         no
```

Setting Up the Environment

Follow this procedure if Enable Break is set to "no" and/or the boot path-list is set to an image.

```
Lab_Sw# configure terminal
Lab_Sw(config)# boot enable-break
Lab_Sw(config)# no boot system
Lab_Sw(config)# end
Lab_Sw# copy run start
Lab_Sw# show boot

BOOT path-list:

Config file:         flash:config.text
Private Config file: flash:private-config.text
Enable Break:        yes
Manual Boot:         no
```

Verification

With Enable Break set to "yes" and removal of a BOOT path-list, a pod test should pass.


If the environment variables are not set correctly, you may experience one of the following symptoms:


1. Pod test fails with a message such as "unable to put the switch into monitor mode"
2. Lab automation such as scrub fails
3. Users cannot perform password recovery (automated or manual)

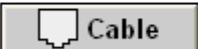
8 Testing the Pod


After all routers have been installed, you should run a pod test to verify that your pod is working. The pod test will detect common configuration and cabling problems.

Pod 8 -- Management Options

 **Online** Bring this pod ONLINE and make it available for reservations.






 **Test** Tell me if this pod is working properly.

 **Cable** Show me how to cable this pod.

 **Delete** Remove this pod from NETLAB.

⇒ Some tests may take a long time. During the BOOTIOS test, NETLAB_{AE} may have to load the specified IOS image if it is not in flash. Some images are very large and can take up to 30 minutes to program into flash memory.


If you cannot resolve an issue and decide to contact technical support, please cut and paste the text from the POD TEST LOG and include with your e-mail.

TESTING POD 8					
DEVICE	TYPE	TEST	STATUS	DETAILS	
 Control Switch 2	Catalyst 2950-24	PING	 RUNNING	Pinging control switch at 169.254.1.12	
 R1	Cisco 2621XM				
 S1	Cisco 2950-24				
 S2	Cisco 2950-24				

POD TEST LOG


TESTING POD 8, Basic Switch Pod, (1 router, 2 switches)...

TESTING IN PROGRESS





 **STOP**


9 Finishing Up

























9.1 Bring the Pod(s) Back Online

Now you can bring the pod online and make it available for lab reservations. You can bring just this pod online by clicking the  Online button under Management Options.

Pod 8 -- Management Options

 Online	Bring this pod ONLINE and make it available for reservations.
 Test	Tell me if this pod is working properly.
 Cable	Show me how to cable this pod.
 Delete	Remove this pod from NETLAB.

Alternatively, you can click  Bring All ONLINE on the Equipment Pods page. Choose this option when you have no more additions or modifications to pods or control devices and you wish to put all pods into service.

EXISTING PODS (click on the GO buttons to manage a pod)					
GO	ID	POD TYPE	POD NAME	STATUS	ACTIVITY
	1	 3 Routers	POD 1	 OFFLINE	IDLE
	2	 2 Firewall Routers PCs & Servers	POD 2	 OFFLINE	IDLE
	3	 1 Router 2 Switches	POD 3	 OFFLINE	IDLE
	4	 1 Router 2 Switches	POD 4	 OFFLINE	IDLE
	5	 Frame / ISDN / Dial	POD 5	 OFFLINE	IDLE
	6	 Frame / ISDN / Dial	Mars	 OFFLINE	IDLE
	7	 3 Routers 5 Switches	Bluestar	 OFFLINE	IDLE
	8	 1 Router 2 Switches	Redstar	 OFFLINE	IDLE

9.2 Enable Basic Switch Pod and CCNA 3.x Exercises

To make the Basic Switch Pod and CCNA 3.x lab exercises available to classes and students, you must first enable CCNA 3.x in a new or existing class.

To add or edit class information, log into NETLAB_{AE} using your instructor account. See the Instructor Accounts section of the *NETLAB+ Administrator Guide* for details.

LOGIN

Username:

Password:

Select **Class** from the menu bar at the top of the MyNETLAB page, or the link in the body of the page.

MyNETLAB

[File](#) [Class](#) [Scheduler](#) [Profile](#) [Curriculum](#) [Archive](#) [Logout](#) [Help](#)

The Class Manager page will be displayed.

Select to add a new class or select an existing class from the class list by clicking on a class name.

CISCO NETWORKING ACADEMY PROGRAM - MY ACADEMY					
CLASS NAME	INSTRUCTOR	STUDENTS	TYPE	START DATE	END DATE
2002 Semester 2	Jane Doe	2	CNAP	Jan 25, 2002	Jan 25, 2003
Antonio's FNS Class	Antonio Labmeister	2	CNAP	Feb 17, 2005	Feb 17, 2006

⇒ You may now enable more than one set of content. Previous NETLAB_{AE} versions only allowed one content selection.

Edit Class INSTRUCTOR
MyNETLAB Logout Help janedoe

- Edit the information for this class, then click OK.
- For help with the form, click Help on the menu bar.

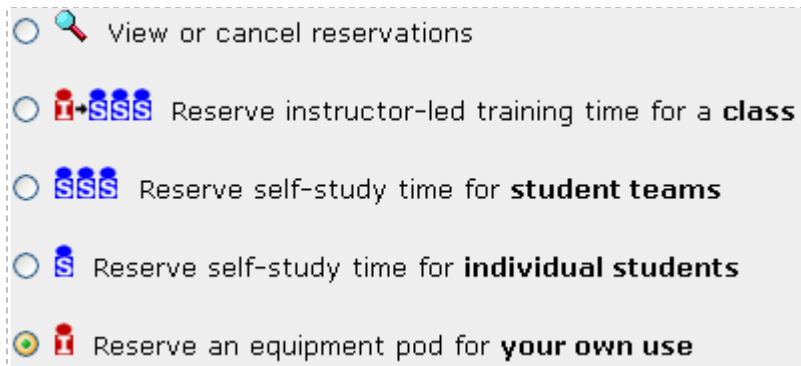
Class Name	2005 Semester 2 REQ
Primary Instructor	Jane Doe
Content and Exercises Labs available to students	<input type="checkbox"/> CCNA 2.1 <input checked="" type="checkbox"/> CCNA 3.0 <input type="checkbox"/> CCNA 3.0 Skills Assessment <input checked="" type="checkbox"/> CCNP 3.0 <input type="checkbox"/> FNS/PIX <input type="checkbox"/> FNS/Router
Starting Date	Mar 8 2005
Ending Date	Mar 8 2006

9.3 Schedule a Lab Reservation for Your New Pod.

To schedule a lab reservation, select **Scheduler** from the menu bar or the link on the body of the MyNETLAB page.



The Scheduler Options screen will be displayed. Detailed descriptions of the scheduler options are available by selecting **Help** on the menu bar. In this example, we will reserve an equipment pod for your own use.



Select **OK** to proceed to the reservation calendar.

The selection of pods depicted may be different from the pods available at your site.

Reservation Calendar INSTRUCTOR

MyNETLAB Logout janedoe

March 2005							>
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
		1	2	3	4	5	
6	7	8	9	10	11	12	
13	14	15	16	17	18	19	
20	21	22	23	24	25	26	
27	28	29	30	31			

Wednesday
March
9
2005

Today's Date and Local Time
Mar 9, 2005 7:04 PM
 Mountain Time (US & Canada)

Select a pod and reservation time by clicking on a +

	Redstar BASIC SWITCH POD 1 Router 2 Switches	Galactica SECURITY ROUTER POD 2 Firewall Routers PCs & Servers	Pegasus SECURITY PIX POD 2 PIX Firewalls PCs & Servers
12am			
1am			

The reservation time area may be scrolled up and down. Scroll to the bottom to display the color legend.

10pm	+	+	+
	+	+	+
11pm	+	+	+
	+	+	+
	Redstar BASIC SWITCH POD 1 Router 2 Switches	Galactica SECURITY ROUTER POD 2 Firewall Routers PCs & Servers	Pegasus SECURITY PIX POD 2 PIX Firewalls PCs & Servers
Color Legend			
	Date you are viewing		
	Today's date		
	Time reserved for you		
	Time reserved for someone else		
	Unreserved time		
	* Access restricted to specific instructors and classes		
+	Available time, click to reserve		

⊕ Select an available time, and the Reserve Instructor Access Time page will be displayed.

Reservation Type	Instructor Access						
Equipment Pod	Redstar						
Reserved For	Jane Doe (janedoe)						
Start Time	Wed Mar 9, 2005 8:00PM (GMT-07:00) Mountain Time (US & Canada)						
End Time	Mar	9	2005	9	00	PM	
Initial Configuration	<input checked="" type="radio"/> restore configs from last Basic Switch Pod reservation (if any) <input type="radio"/> no configs loaded (clean)						
Confirm Reservation		Back to Calendar			Cancel		

Review the details of the reservation and select **Confirm Reservation**. You can return to the reservation calendar to see your lab reservation on the time reservation portion. Remember, you may need to scroll the page to see your information.

8pm	 634 janedoe	⊕	⊕
		⊕	⊕
9pm	⊕	⊕	⊕

For more information on scheduling reservations, see the Scheduler section of the *NETLAB+ Instructor Guide*.