

Cisco Packet Tracer 8 Workbench

Lab Access

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Introduction

Cisco Packet Tracer is an excellent tool for building the skill sets needed for programming and configuring Cisco routers, switches, and access points. Using NDG's remote access solution, students can access and use Packet Tracer remotely, eliminating the need for students to install Packet Tracer on their individual computers.

Objectives

In this lab, we will be performing the following task: Access Packet Tracer from within NETLAB+.

Lab Topology





Lab Settings

The settings for each device (router, switch, computer, and access point) are listed in the Packet Tracer assignment and will differ for each lab assignment.

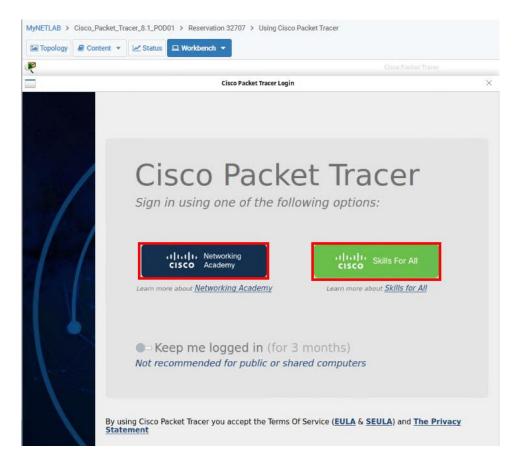


1 Use the Packet Tracer Workbench

In the sections below, we will demonstrate how to run Packet Tracer Workbench and the tasks required to close and complete the lab session.

1.1 Run the Packet Tracer Workbench

- 1. After you have entered the lab, click on the **Workbench** tab.
 - a. The Cisco Networking Academy Packet Tracer login screen will be presented. You can sign in using your Cisco Networking Academy credentials to either Cisco Networking Academy or Cisco Skills For All. Click which site you are accessing to complete Packet Tracer Labs.

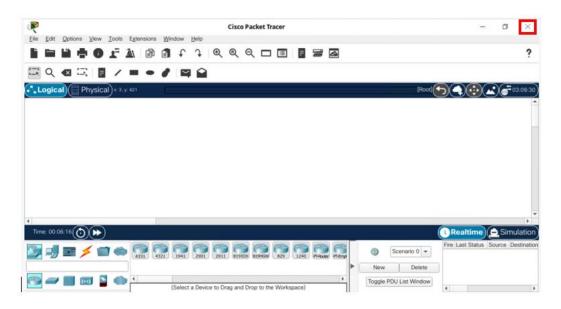




b. Sign in using your account **email** and click **Next** to immediately enter a blank Packet Tracer.

Cisco Packet Tracer Login with netacad.	com credentials
cisco	
Log in	
Email	
Next	
Unlock account?	
Forgot email address? Help	
Don't have an account? Sign up	

c. You can now begin to build out your infrastructure. If you do not want to start using Packet Tracer immediately, you can close the Netacad login page by clicking the **X** in the upper-right corner of the window.

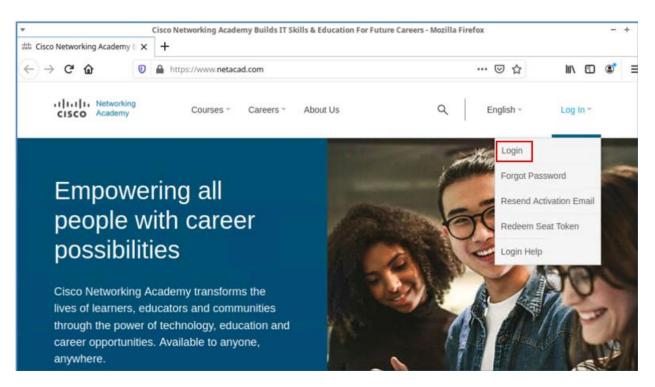




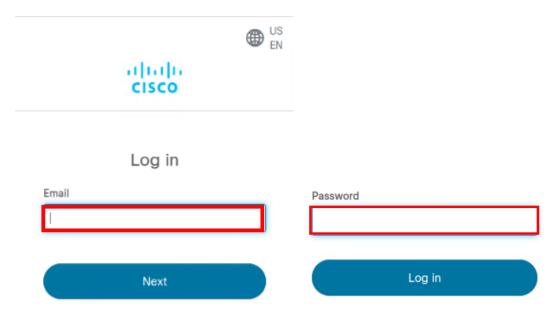


During the login, the Cisco Networking Academy site will also be loaded into Firefox. From there, you can log in to the Academy and work on the Packet Tracer labs from the curriculum modules as well as do the Skills Based Assessment at the end of the course.

2. Click on Login to log in to your Networking Academy account.

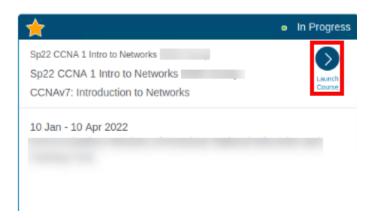


3. Enter your academy Email, press Next, and then enter your password and press Log In.





4. Select your course from the list by hovering over the course and clicking the Launch Course button.



5. On the course *home* page, scroll to the **Module** you are planning to complete and select the module course content.





cisco Introduction t

6. Under the course content panel on the left side of the page, open a chapter and scroll to the bottom of the chapter list, and find **Module Practice and Quiz**. Click to open the section and then click on the **Packet Tracer** lab.

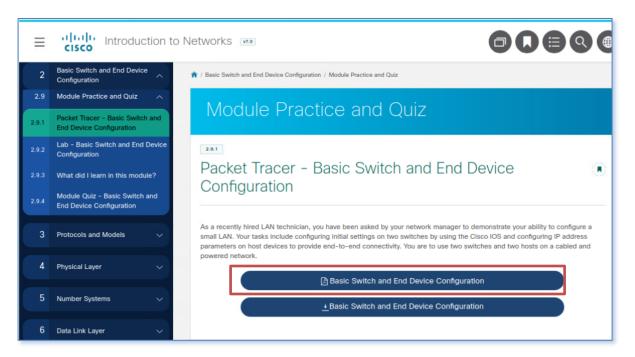
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Introd	luction to Networks	
1	Networking Today	~
2	Basic Switch and End Device Configuration	~
3	Protocols and Models	~
4	Physical Layer	~
5	Number Systems	~
6	Data Link Layer	~
7	Ethernet Switching	~
8	Network Layer	~
9	Address Resolution	~

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1	Networking Today	~				
2	Basic Switch and End Device Configuration	^				
2.0	Introduction	~				
2.1	Cisco IOS Access	~				
2.2	IOS Navigation	~				
2.3	The Command Structure					
2.4	Basic Device Configuration	~				
2.5	Save Configurations	~				
2.6	Ports and Addresses	~				
2.7	Configure IP Addressing	*				
2.8	Verify Connectivity	~				
2.9	Module Practice and Quiz	~				
2.9	Module Practice and Quiz	~				
2.9.1	Packet Tracer - Basic Switch and End Device Configuration	nd				
2.9.2	Lab - Basic Switch and End De Configuration	vice				
2.9.3	What did I learn in this module?	2				
2.9.4	Module Quiz - Basic Switch and End Device Configuration	₫				



7. In the content frame on the right, click on the top selection (which is the lab name with a **PDF icon** to the left). These are the instructions for the Packet Tracer lab.



8. This will open the PDF in Firefox.

🕑 Bas	sic Switch a	nd End Devic	e Configura	ation	
		Open in	New Window		
ג <u>∗</u> م	I IIIIIII Net CISCO Aca Packet Tracer	working	utomatic Zoom *	onfiguration	
	Addressing Table				
	Device	Interface VLAN 1	IP Address	Subnet Mask 255.255.255.0	

- 9. It is much easier to flip between the Packet Tracer lab and the instructions if you open the PDF in a reader.
- 10. Click on the **Download** icon in the upper-right corner of the reader window.

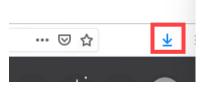




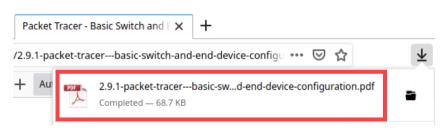
11. In the dialog window that opens, select **Save**, then click **OK**.

ou have chosen t	to open:		
🔭tracerba	sic-switch-and-end-device-conf	iguration.	pdf
which is: Por	table Document Format (PDF) (68	8.7 KB)	
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Vhat should Fire	fox do with this file? GNU Image Manipulation Prog	ram (def	~
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Open with	GNU Image Manipulation Prog		

12. Select the download location for the Packet Tracer lab document.



13. Select the Packet Tracer Lab PDF File.





14. The lab instructions should open in a new tab.

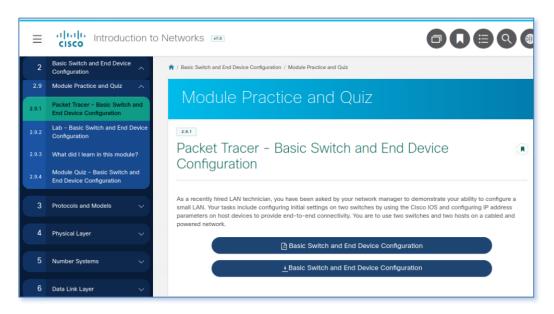
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ahah			omatic Zoom 👻	¢1
	Netv	vorting		
Addressi	ng Table	Basic Switch and		-
	evice	Interface	IP Address	Subnet Mask
		VLAN 1		255.255.255.0
		VLAN 1 VLAN 1		255.255.255.0 255.255.255.0

- Use IOS commands to save the running configuration.
- 15. Go back to the browser tab for the module you previously opened with the Packet Tracer lab file. Close the open lab document.

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	Basic Sv	vitch and End	Device (Configuratic	on (×
		Open in N	ew Window			
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C	IIIII Net	idemy				
F	Aca Packet Tracer	demy - Basic Switch and	End Device C	Configuration		
F	Aca Packet Tracer	demy - Basic Switch and				
F	Aca Packet Tracer	- Basic Switch and	End Device C	Subnet Mask		
F	Aca Packet Tracer	- Basic Switch and Interface		Subnet Mask 255.255.255.0		
F	Aca Packet Tracer	- Basic Switch and		Subnet Mask		



16. In the content frame on the right, click on the bottom selection (which is the lab name with a **Download** icon to the left). This is the Packet Tracer activity.



17. In the dialog window that opens, click the **Open With** radio button. Click **OK**.

🍅 Opening	2.9.1-packet-tracerbasic-s		\times
You have chosen t	o open:		
🗋racerbas	ic-switch-and-end-device-configu	ration.pk	a
	ket Tracer Activity file type (205 KB) /contenthub.netacad.com		
What should Fire	fox do with this file?		
Open with	packettracer" (default)	~	
○ <u>S</u> ave File			
Do this <u>a</u> uto	matically for files like this from now	ı on.	
	Cancel	OK	

18. Packet Tracer requires that you sign in again using your Cisco Network Academy credentials unless you previously logged into a blank Packet Tracer. Enter your username and press Next ... and then enter your password and press Sign In.

⊕ ^{US} EN CISCO	
Sign in	
Email or username	
	?

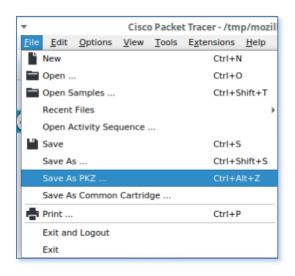
19. Packet Tracer will now be launched with the instructions and lab devices to configure.

Cisc	o Packet Tracer - /tmp/mozil	a_sysadmin0/2.9.1-packet-tr	acerbasic-switch-and-end-	device-configuration.pka	<u> </u>	٥	\times
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	- Basic Switch a	nd End Device	Î.				
Configuration	n						
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Device	Interface	IP Address	Subnet Ma				
Class-A	VLAN 1	172.16.5.35	255.255.255.0				
Class-B	VLAN 1	172.16.5.40	255.255.255.0	Student-1			
Student-1	NIC	172.16.5.50	255.255.255.0				
Student-2	NIC	172.16.5.60	255.255.255.0				
switches using = Use Cisco IOS c = Use IOS comma = Configure two ho - Verify connectivi	ames and IP addresses on tw the command-line interface commands to specify or limit ands to save the running conf ost devices with IP addresses to between the two PC and c	(CLI). access to the device configur iguration. 5.	ations.		Class-A	-	
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) -) E 🗲		2901 2911 819IOX 819HGV	829 1240 PT-Roader PT-Empt	Scenario 0 Fire Last New Delete	Status S	ource De	stina
🦻 🛹 🔳 📖	Selection (Selection)	ect a Device to Drag and Drop to t	he Workspace)	Toggle PDU List Window			





- 20. Follow the activity as written in the Activity instructions.
- 21. As you work on the lab, you should click on **Check Results** in the activity description window to see how you are doing.
- 22. When you are satisfied with the lab, you can save your Packet Tracer lab activity by clicking on File → Save as PKZ.



- a. Click on the **sysadmin** folder on the left side of the file manager window.
- b. Double-click on the **Desktop** folder.
- c. Click the Save button.
- d. Make sure the file name is listed at the bottom of the window and click OK.

		Save File					-	F X
Look in:	im /home/sysadmin		- 0	0	0	ß	::	
Compu	Name	▼ Size Type	Da	te M	lodifie	d		
=	Cisco Packet Tracer 7.	0 Fold	er 8/-	4/20	11:17	AM		
sysadm	nin 🚞 Desktop	Fold	er 8/	5/20	11:33	AM		
	Documents	Fold	er 8/-	4/20	10:40	AM		
	E Downloads	Fold	er 8/	5/20	11:29	AM		
	Music	Fold	er 8/-	4/20	10:40	AM		
	Pictures	Fold	er 8/4	4/20	10:40	AM		
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	Public	Fold	er 8/-	4/20	10:40	AM		
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iles of type:	Packet Tracer Activity File (*.p	7)			-	M	Canc	el



23. Make sure the file is listed in the Pkz-Select Files window and click on OK.

	+ ×			
Add file(s) to Pkz				
/home/sysadmin/Desktop/2.9.1-packet-tracerbasic				
	Add			
	Remove			
 к к 	Cancel			

24. You can then use the PKZ file to review your lab activity, and you can upload it to the Assignment section for the course (if your instructor is grading the activities).

1.2 Closing Up and Finishing

Perform the following steps once you have completed your lab activity.

- 1. Close the Packet Tracer window (since you have already saved the activity to a PKZ file, you do not have to save your work).
- 2. Close the PDF viewer.
- 3. You can then go on to another Packet Tracer lab in the course modules (start on Step 9 above), or you can log out of the Cisco Networking Academy and close the browser window.
- 4. You may now end your reservation.

1.3 Logging In Again

After closing Packet Tracer and logging out of Workbench, you can log back in again, if desired, rather than having to end the reservation and schedule a new reservation.

- 1. Log in as **sysadmin** using the password **Train1ng\$**.
 - a. At the *Windows 7* login screen, make sure the **sysadmin** user account is displayed. Enter **Train1ng\$** for the password.
 - b. Click Log In or press ENTER once the password has been typed in.



sysadmin 	•
	Log In

2. On the desktop, find the **Firefox Web Browser** shortcut and double-click to start. The Cisco Networking Academy site should open automatically.



3. When you are done with Packet Tracer activities, you may now end your reservation.