CISCO Cisco Networking Academy Mind Wide Open

# What's New in Cisco Packet Tracer 6.1

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## Upgrading to Packet Tracer 6.1



### Upgrading to PT 6.1

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Read this document carefully .....

#### Cisco Packet Tracer 6.1 Important Information About Upgrading

#### Last Updated 19 June 2014

This document provides guidance on when to upgrade to Cisco<sup>®</sup> Packet Tracer (PT) 6.1. If you have questions after reviewing this information and recommended actions, please contact your Academy Support Center (ASC) or the Cisco Networking Academy<sup>®</sup> Support Desk for assistance.

The latest release of Cisco Packet Tracer, PT 6.1, is now available on the Cisco NetSpace<sup>®</sup> learning environment.

To determine when you should upgrade your lab and student computers to the PT 6.1 release, **please read this document carefully**. PT 6.1 is not fully backward-compatible with the CCNA R&S 5.0 course components, so please continue to use the currently installed version of PT until current classes are finished.

#### Should I Upgrade?

Current Scenario	Impact and Recommended Actions
Teaching a current CCNA R&S 5.0 course. Class end date is BEFORE 26 July, 2014	<ul> <li>DO NOT Upgrade to PT to 6.1</li> <li>Current class not affected</li> </ul>
Teaching a current CCNA R&S 5.0 course. Class end date is AFTER 26 July, 2014	<ul> <li>Upgrade to PT 6.1 AFTER completing this class</li> <li>DO NOT Upgrade to PT 6.1</li> <li>Upgrade to PT 6.1 on 26 July immediately, class will be automatically upgrade to CCNA 5.02 release.</li> <li>If you do not upgrade to PT 6.1 on 26 July, course PKAs, Chapter exams PTMOs, and PTSAs will not work correctly.</li> </ul>
Teaching a current CCNA R&S 5.0 course.	<ul> <li>Continue to use PT 6.1; DO NOT revert back to PT 6.0.1, as this will result in version incompatibility issues.</li> <li>You will encounter following issues when running PT 6.1 and CCNA R&amp;S 5.0 courses:</li> </ul>
Class end date is AFTER July 26, 2014.	<ul> <li>PKA instructions will be out of alignment ('Interface G1/1' vs. 'Interface G0/1')</li> </ul>
Upgraded to PT 6.1 by mistake.	<ul> <li>Skip the affected PTMOs listed in the table that follows</li> <li>Do not activate the PTSAs, as they will not be scored correctly</li> </ul>
	<ul> <li>On July 26, 2014, the class will automatically be upgraded to the CCNA 5.02 release and the issues will be resolved.</li> </ul>

#### Should I Upgrade?

Current Scenario	Impact and Recommended Actions
Teaching one of the transitional CCNA R&S 5.0 courses : Network Basics, Routing Protocols, Switched Networks	<ul> <li>DO NOT upgrade to PT 6.1. Continue to use PT 6.0.1</li> <li>Bug fixes will not be implemented for these courses; there will not be a 5.02 release.</li> <li>Migrate as soon as possible to the recommended four-course sequence to avoid compatibility issues.</li> </ul>
Not teaching a CCNA R&S 5.0 course No plan for a CCNA R&S course until AFTER July 26, 2014.	Simply upgrade to PT 6.1 before you open your next CCNA R&S class, which will be version 5.02.

#### PT 6.1 Bug Fix Impact on CCNA R&S

Course Name	Component Affected		
Introduction to Networks (ITN)	<ul> <li>PTSAs: All</li> <li>PMTOs: Chapter 8 exam, form 27731</li> <li>PKAs:         <ul> <li>Examine the ARP Table, page 5.2.1.7</li> <li>Packet Tracer Multiuser Tutorial, page 10.4.1.2</li> <li>Packet Tracer Multiuser - Implement Services, page 10.4.1.3</li> <li>Exploring Internetworking Devices, page 6.3.1.10</li> <li>Identify MAC and IP Addresses, page 5.1.4.4</li> </ul> </li> </ul>		
Routing and Switching Essentials (RSE)	<ul> <li>PTSAs: All</li> <li>PMTOs: <ul> <li>Pre-test exam, form 27660</li> <li>Chapter 10 exam, form 27120</li> <li>Practice Final exam, form 27123</li> </ul> </li> <li>PKAs: <ul> <li>Configuring Router-on-a-Stick Inter-VLAN Routing, page 5.1.3.6</li> <li>Documenting the Network, page 4.1.2.9</li> <li>Configuring VLANs, page 3.2.1.7</li> <li>Configuring Trunks, page 3.2.2.4</li> <li>Troubleshooting a VLAN Implementation - Scenario 1, page 3.2.4.7</li> <li>Troubleshooting a VLAN Implementation - Scenario 2, page 3.2.4.8</li> <li>Troubleshooting Inter-VLAN Routing, page 5.2.2.4</li> <li>Skills Integration Challenge, page 5.4.1.2</li> <li>Skills Integration Challenge, page 10.3.1.2</li> <li>Skills Integration Challenge, page 3.4.1.2</li> </ul> </li> </ul>		

#### PT 6.1 Bug Fix Impact on CCNA R&S

Course Name	Component Affected	
Scaling Networks (ScaN)	<ul> <li>PTSAs: All</li> <li>PMTOs:         <ul> <li>Chapter 4 exam, form 27364</li> <li>Chapter 7 exam, form 27367</li> <li>Chapter 8 exam, form 27358</li> </ul> </li> <li>PKAs:         <ul> <li>Skills Integration Challenge, page 3.2.1.3</li> <li>Configuring EtherChannel, page 3.2.2.3</li> <li>Troubleshooting EtherChannel, page 4.4.2.2</li> <li>Configuring Wireless LAN Access, page 4.5.1.2</li> <li>Skills Integration Challenge</li> </ul> </li> </ul>	
Connecting Networks (CN)	<ul> <li>PTSAs: All</li> <li>PMTOs: None</li> <li>PKAs:         <ul> <li>Troubleshooting Enterprise Networks 1, page 9.2.3.12</li> <li>Skills Integration Challenge - EIGRP, page 1.4.1.3</li> <li>Configuring VPNs (Optional), page 7.1.2.4</li> <li>Configuring GRE, page 7.2.2.3</li> <li>Troubleshooting GRE, page 7.2.2.4</li> <li>Configuring Syslog and NTP, page 8.1.2.5</li> </ul> </li> </ul>	

#### CCNA R&S 5.02 Release

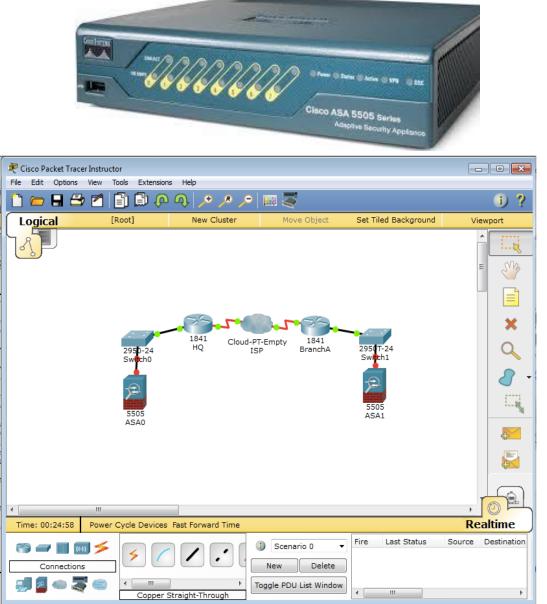
- Target 26 July 2014
- Improvements in the following course components :
  - $\circ~$  Instructions for the affected PKA files
  - Affected chapter exam PTMOs
  - Affected PTSAs

## New in PT 6.1



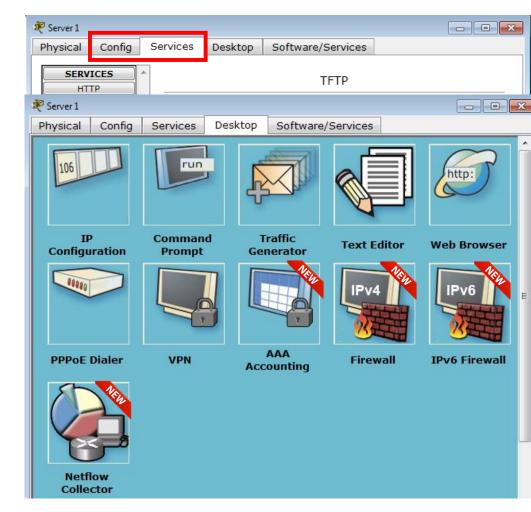
#### New in Packet Tracer 6.1

- Two versions
  - Instructor version, include Activity Wizard
  - Student version
- ASA5505 Support
- IOS 15 [15.0.2-SE4(ED)] image support for C2960
- Enhanced NetFlow Support
- Enhanced OSPF, OSPFv3 Support
- Enhanced EIGRP, EIGRPv6 Support
- Bug Fixes, eg corrected Gigabit Ethernet interface (G0/1, G0/2) designation in 2960 switch
- Fully supported on Windows 7 and Windows 8 or 8.1. NO support for Windows Vista



#### New Services / Applications

- New service tab (config and service tabs mixed in previous versions)
- Netflow collector as a new server desktop application
- AAA accounting desktop application
- IPv4 and IPv6 firewalls moved from service to desktop application
- Zone-Based Policy Firewall for IPv6
- DHCP service for IPv6
- IPv6 CEF
- IPv6 IPSec



#### IPv6 Routing Protocols Enhancements

- OSPFv3 enhancements
  - o distance command
  - "ipv6 ospf neighbor" interface subcommand
  - "neighbor router-id" command
  - o "area range" command
  - ip ospf network point-to-point (loopback interface only)
  - "auto-cost reference-bandwidth"
- EIGRPv6 Enhancements
  - EIGRP over Frame Relay
  - o distance command
  - EIGRP debug and authentication commands
- RIPng Enhancements
  - o distance command update
  - o "default-information originate" command

#### **DHCP** Enhancements

- Show and clear ip dhcp conflict
- DHCP snooping
- IPv4 Automatic Private IP Addressing (APIPA) in case of DHCP lookup failure
- DHCPv6 commands in IOS15
- ipv6config /renew and /release on PC
- NDv6

## Etherchannel Expansion (Layer 3)

• Etherchannel Expansion (Layer 3)

2811#conf t	
Enter configuration	commands, one per line. and with CNTL/
2811(config)#int ?	
Dot11Radio	Dot11 interface
Ethernet	IEEE 802.3
FastEthernet	FastEthernet IEEE 802.3
GigabitEthernet	GigabitEthernet IEEE 802.3z
Loopback	Loopback interface
Port-channel	Ethernet Channel of interfaces
FOLD CHAIMEL	Demethee on annet of invertaces
Serial	Serial
Serial Tunnel	Serial
Serial Tunnel	Serial Tunnel interface
Serial Tunnel Virtual-Template	Serial Tunnel interface Virtual Template interface
Serial Tunnel Virtual-Template Vlan	Serial Tunnel interface Virtual Template interface Catalyst Vlans



	Router0				
	Physical Config C				
			mand Line		
	http://www.cisco.com				Tound at.
	If you require furth export@cisco.com.	er assistance pl	ease contact :	us by sending email	to
	cisco 2811 (MPC860) ; Processor board ID J M860 processor: part 4 FastEthernet/IEEE 239K bytes of NVRAM. 62720K bytes of proc	AD05190MTZ (4292 number 0, mask 802.3 interface(	891495) 49 s)		s of memory
	Configuration regist	er is 0x2102			
	2811#sh ip int br Interface	IP-Address	OK? Method	Status	Protocol
-	FastEthernet0/0	unassigned	YES unset	up	up
	FastEthernet0/1	unassigned	YES unset	up	up
	FastEthernet1/0	unassigned	YES unset	administratively do	wn down
	TastEthernet1/1	unassigned	YES unset	administratively do	wn down
			VFS upset	administratively do	wn down
	Viani	unassigned	125 diiset		

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#### Switches :

 IOS 15 support for Catalyst 2960 switch. The IOS 15 image has to be downloaded by TFTP or FTP from a server device reachable by the switch in Packet Tracer

cal	[Root]	New Cluster	🔊 Server0		
			Physical Config Services Deskto	p Software/Services	
			SERVICES A	TFTP	
			DHCP Service	On	© Off
				File	<b>^</b>
<pre>SW_IOS_15#copy ti Address or name c Source filename   Destination filer Accessing tftp:// Loading c2960-lan !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!</pre>	SW_IOS_15#confi Enter configura SW_IOS_15(confi SW_IOS_15(confi	Switch Ports M 	 -C2960-24TT-L 15.0(2)SE4	SW Image C2960-LANBASEKS	Э-М :
	-			C	Paste
© 2014 Cisco and/or its affiliates. All rights res	erved.		pt3000-i6q4l2-mz.		Remove File

#### Simulation / Activity Wizard

- Expanded buffer for PDUs
- Update PDU index in the PDU Window
- Filters based on IPv4 or IPv6 traffic in simulation mode
- Improved scripting and variable management Activity Wizard

## Additional Information



#### Packet Tracer Availability

- Packet Tracer is available free to all Networking Academy instructors, students and alumni
- To download Packet Tracer, log in to Cisco NetSpace, click Offerings > CCNA > Cisco Packet Tracer, then select your download package

Offerings	CCNA
> All Resources	The Cisco CCNA curriculum helps students prepare for entry-level career opportunities, continuing education, and the globally recognized Cisco
IT Essentials	CCENT and CCNA certifications. Our new CCNA Routing and Switching curriculum aligns with the latest CCENT and CCNA certification exams.
CCNA	<ul> <li>CCNA Routing and Switching</li> <li>CCNA Routing and Switching courses are designed to take advantage of the improved flexibility and course management capabilities in the Cisco</li> <li>NetSpace learning environment. This short video provides an introduction to the CCNA Routing and Switching curriculum and its features and</li> </ul>
CCNA Routing and Switching	functionality.
CCNA Discovery	In addition to the courses, CCNA Routing and Switching bridging materials have been developed to address technical gaps in comprehension and help CCNA Discovery and CCNA Exploration students prepare for the new Cisco CCENT or CCNA Routing and Switching certification exam, or the new CCNA Routing and Switching courses. Learn more about CCNA Routing and Switching.
CCNA Exploration	CCNA Discovery
CCNA Routing and Switching Instructor	CCNA Discovery covers general networking theory and the basics of routing, switching, and advanced technologies within the context of environments ranging from home and small office networks to more complex enterprise models. Learn more about CCNA Discovery.
Resource Spotlight	CCNA Exploration
CCNA R&S Bridging Materials	CCNA Exploration explains the role of application protocols and their relation to networking services. The four courses immerse students in routing, switching, and advanced technologies. Learn more about CCNA Exploration.
CCNA Security	Cisco Packet Tracer Deduct Tracer is an integral part of the CCNA curriculum. Packet Tracer provides simulation, visualization, authoring, assessment, and
> CCNP	<ul> <li>collaboration capabilities and facilitates the teaching and learning of complex technology concepts. Learn more about Cisco Packet Tracer.</li> </ul>
	Assessment
<ul> <li>Health Information Networking</li> </ul>	A wide array of assessment types and tools are available to help students, instructors, and administrators understand the strengths and weaknesses of individuals as they progress through a curriculum. Learn more about Cisco Networking Academy Assessments.

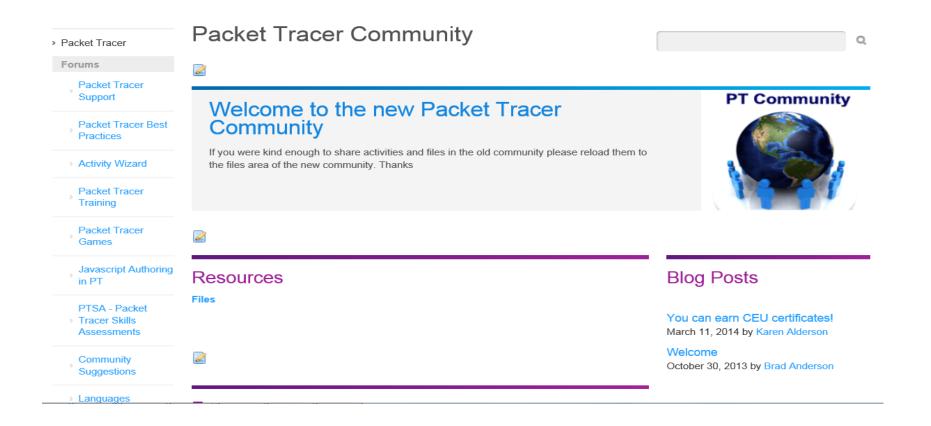
#### For More Information

The following Packet Tracer resources are available on Cisco NetSpace > Offerings > CCNA > Cisco Packet Tracer

- FAQs
- At A Glance
- Overview Presentation
- Packet Tracer 6.1 Executables
   Windows
  - Linux
  - Linux Ubuntu installation

#### Packet Tracer Discussion Forum

 Access the global instructor community for questions, discussions, collaboration, and activity sharing: Cisco NetSpace > Communities > Packet Tracer





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