What's New in Cisco Packet Tracer 6.1

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Upgrading to Packet Tracer 6.1

Upgrading to PT 6.1
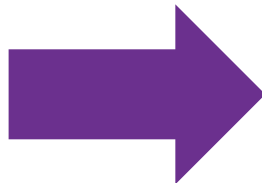
Read this document carefully ......

Cisco Networking Academy®

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Cisco Packet Tracer 6.1
Important Information About Upgrading

Last Updated 19 June 2014

This document provides guidance on when to upgrade to Cisco® 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® Support Desk for assistance.

The latest release of Cisco Packet Tracer, PT 6.1, is now available on the Cisco NetSpace® 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	• DO NOT Upgrade to PT to 6.1 • Current class not affected • Upgrade to PT 6.1 AFTER completing this class
Teaching a current CCNA R&S 5.0 course. Class end date is AFTER 26 July, 2014	• DO NOT Upgrade to PT 6.1 • Upgrade to PT 6.1 on 26 July immediately, class will be automatically upgrade to CCNA 5.02 release. • If you do not upgrade to PT 6.1 on 26 July, course PKAs, Chapter exams PTMOs, and PTSAs will not work correctly.

Teaching a current CCNA R&S 5.0 course.
 	
Class end date is AFTER July 26, 2014.
 	
Upgraded to PT 6.1 by mistake.
	• Continue to use PT 6.1; DO NOT revert back to PT 6.0.1, as this will result in version incompatibility issues.
	• You will encounter following issues when running PT 6.1 and CCNA R&S 5.0 courses:
	  o PKA instructions will be out of alignment ('Interface G1/1' vs. 'Interface G0/1')
	  o Skip the affected PTMOs listed in the table that follows
	  o Do not activate the PTSAs, as they will not be scored correctly
	• On July 26, 2014, the class will automatically be upgraded to the CCNA 5.02 release and the issues will be resolved.

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	• DO NOT upgrade to PT 6.1. Continue to use PT 6.0.1 • Bug fixes will not be implemented for these courses; there will not be a 5.02 release. • Migrate as soon as possible to the recommended four-course sequence to avoid compatibility issues.
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)	- PTSAs: All - PMTOs: Chapter 8 exam, form 27731 - PKAs: - Examine the ARP Table, page 5.2.1.7 - Packet Tracer Multiuser Tutorial, page 10.4.1.2 - Packet Tracer Multiuser - Implement Services, page 10.4.1.3 - Exploring Internetworking Devices, page 6.3.1.10 - Identify MAC and IP Addresses, page 5.1.4.4
Routing and Switching Essentials (RSE)	- PTSAs: All - PMTOs: - Pre-test exam, form 27660 - Chapter 10 exam, form 27120 - Practice Final exam, form 27123 - PKAs: - Configuring Router-on-a-Stick Inter-VLAN Routing, page 5.1.3.6 - Documenting the Network, page 4.1.2.9 - Configuring VLANs, page 3.2.1.7 - Configuring Trunks, page 3.2.2.4 - Troubleshooting a VLAN Implementation - Scenario 1, page 3.2.4.7 - Troubleshooting a VLAN Implementation - Scenario 2, page 3.2.4.8 - Troubleshooting Inter-VLAN Routing, page 5.2.2.4 - Skills Integration Challenge, page 5.4.1.2 - Skills Integration Challenge, page 6.6.1.2 - Skills Integration Challenge, page 10.3.1.2 - Skills Integration Challenge, page 3.4.1.2

PT 6.1 Bug Fix Impact on CCNA R&S

Course Name	Component Affected

Scaling Networks (ScaN)	• PTSAs: All
	• PMTOs:
	    ○ Chapter 4 exam, form 27364
	    ○ Chapter 7 exam, form 27367
	    ○ Chapter 8 exam, form 27358
	PKAs:
	    ○ Skills Integration Challenge, page 3.2.1.3
	    ○ Configuring EtherChannel, page 3.2.2.3
	    ○ Troubleshooting EtherChannel, page 4.4.2.2
	    ○ Configuring Wireless LAN Access, page 4.5.1.2
	    ○ Skills Integration Challenge

Connecting Networks (CN)	• PTSAs: All
	• PMTOs: None
	• PKAs:
	    ○ Troubleshooting Enterprise Networks 1, page 9.2.3.12
	    ○ Skills Integration Challenge – EIGRP, page 1.4.1.3
	    ○ Configuring VPNs (Optional), page 7.1.2.4
	    ○ Configuring GRE, page 7.2.2.3
	    ○ Troubleshooting GRE, page 7.2.2.4
	    ○ Configuring Syslog and NTP, page 8.1.2.5

CCNA R&S 5.02 Release

- Target 26 July 2014

- Improvements in the following course components :
  - 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
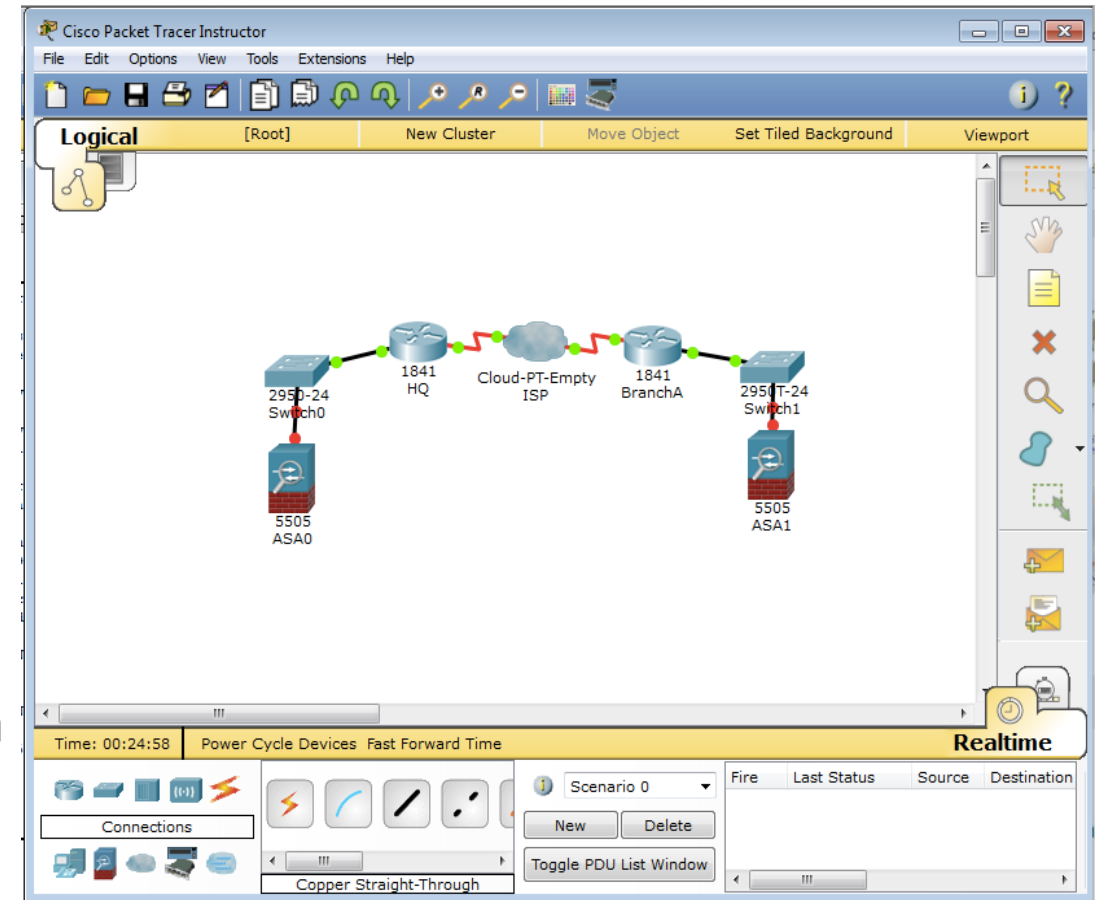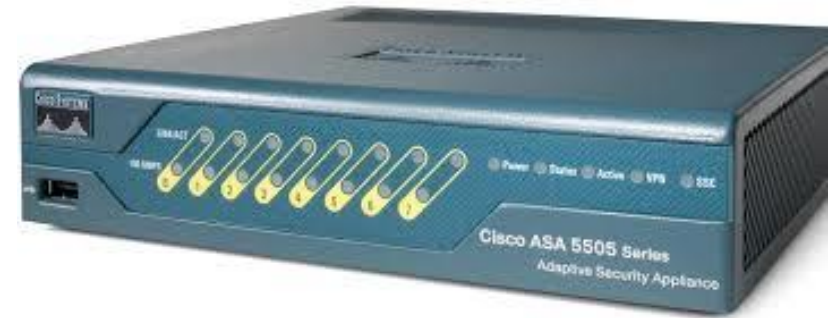
New Services / Applications

- 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 over IPv4 GRE Tunnel Protection
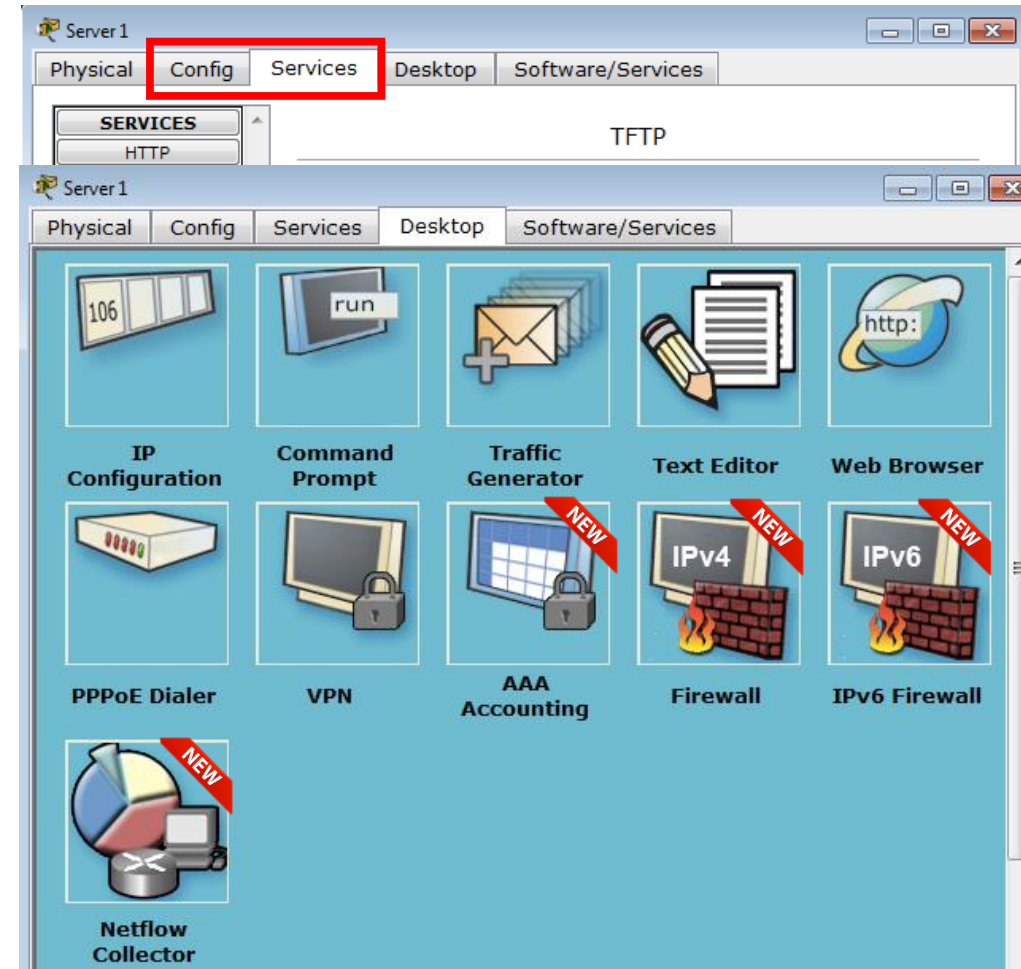
IPv6 Routing Protocols Enhancements

- OSPFv3 enhancements
  - distance command
  - "ipv6 ospf neighbor" interface subcommand
  - "neighbor router-id" command
  - "area range" command
  - ip ospf network point-to-point (loopback interface only)
  - "auto-cost reference-bandwidth"

- EIGRPv6 Enhancements
  - EIGRP over Frame Relay
  - distance command
  - EIGRP debug and authentication commands

- RIPng Enhancements
  - distance command update
  - "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.  End with CNTL/Z.
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
  Serial            Serial
  Tunnel            Tunnel interface
  Virtual-Template  Virtual Template interface
  Vlan              Catalyst Vlans
  range             interface range command
2811(config)#int
```


2960-24TT
SW_IOS_15

2811
Router0

Router0

Physical Config CLI

IOS Command Line Interface

```
A summary of U.S. laws governing Cisco cryptographic products may be found at:
http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to
export@cisco.com.

cisco 2811 (MPC860) processor (revision 0x200) with 60416K/5120K bytes of memory
Processor board ID JAD05190MTZ (4292891495)
M860 processor: part number 0, mask 49
4 FastEthernet/IEEE 802.3 interface(s)
239K bytes of NVRAM.
62720K bytes of processor board System flash (Read/Write)

Configuration register 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 down down

FastEthernet1/1      unassigned      YES unset  administratively down down

Vlan1                unassigned      YES unset  administratively down down

Port-channel 1       10.10.10.1      YES manual up                    up
2811#
```

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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

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

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**

Thank you.

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