

#### Packet Tracer: Overview Session





Packet Tracer Overview Session

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# **Packet Tracer Overview Agenda**

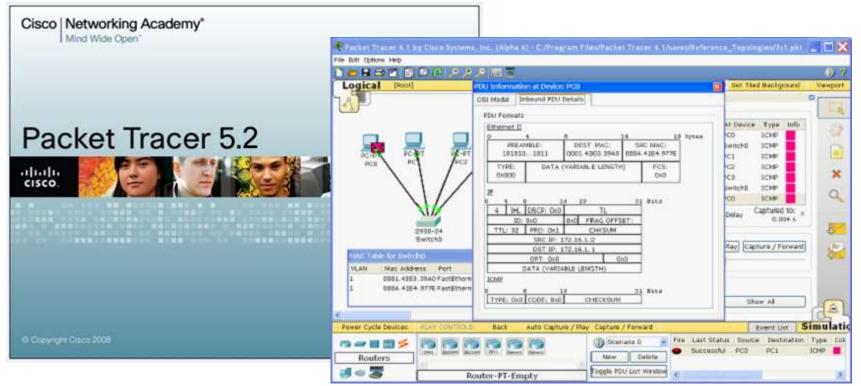
- What is Packet Tracer?
- Why is PT beneficial?
- PT features
- How to acquire PT
- Packet Tracer Forum
- Tools for Teaching PT
- Distribution of PT
- Reporting Bugs

Networking Academy



### **Packet Tracer**

#### Packet Tracer simulation software enables instructors to easily teach complex technical concepts and supplements classroom equipment.



# Key Benefits of PT

- Based on three learning principles: learning is active, learning is **social**, and learning is **contextual**.
- Integrated in CCNA Discovery, CCNA Exploration, and **CCNA Security** courses.

#### Includes a variety of **new features**

Improvement in visualization both in simulation (QoS Packet Queueing) and Physical view

New Client/Server protocol implementation

Additional protocols modeled

Improved modeling of existing protocols

Improved GUI

Activity Wizard improvements

**Multiuser** 

#### Supplements hands-on lab equipment

Each student can build, configure and troubleshoot networks using virtual equipment

\* New in PT 5.2 or higher

\* New in PT 5.0

## **Features of PT**

- Logical and Physical Workspaces
- Real-time and Simulation Modes
- Global event list (packet sniffer); Adjustable Windows
- LAN: Ethernet (including CSMA/CD), 802.11 wireless
- Switching: VLANs, 802.1q, trunking, VTP, DTP, STP, RSTP\*
- TCP/IP: HTTP, DHCP, Telnet (with SSH), TFTP, DNS, TCP, UDP, IP,ICMP, and ARP including IPv6\*
- Routing: static, default, RIPv1, RIPv2, EIGRP, OSPF (single and multiple area\*), inter-VLAN routing and Route Redistribution\*
- WAN: Frame Relay, PPP, HDLC
- Multiuser Connection\* to allow peer to peer collaboration
- VPN, IDS, IPS, IPSec, CBAC, Outside NAT, AAA, GRE, SNMPv1 and 2, parser views, NTP (with a PT based server), Firewall and Zone based firewall, Syslog, Diffserv QOS
- Activity wizard enhancements

### What is New to PT5.x?

- More Protocols: IPv6, Multi-area OSPF, Route Redistribution, Multilayer Switching (3560 Catalyst switch), SSH (Secure Shell), RSTP (Rapid Spanning Tree Protocol), More ICDN, Discovery and Exploration Commands
- Multi-user Collaboration
- VPN, IDS, IPS, IPSec, CBAC, Outside NAT, AAA, GRE, SNMPv1 and 2, parser views, NTP (with a PT based server), Firewall and Zone based firewall, Syslog, Diffserv QOS, ISAKMP, TACACS+, Radius, SNMP, HTTPS, SYSLOG
- Support for CCNA and CCNA Security
- Improved Wireless Security modelling with WPA, WPA2, WPA-PSK, WPA2-PSK
- Activity wizard enhancements

### How to Acquire PT

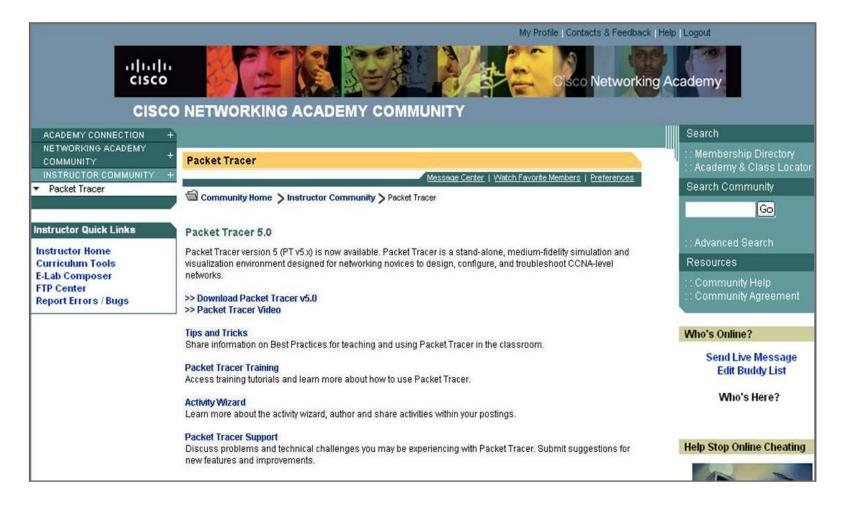
- PT is now available for download on the Academy Connection Website homepage of the user.
- Just click on the icon shown here which will appear in the left panel on the Academy Connection.



This will open a page describing PT with links to FAQ, Datasheet, Training Materials, the Interactive Course Guide, and several download options for the program with or without the Tutorials

http://cisco.netacad.net/go/pt

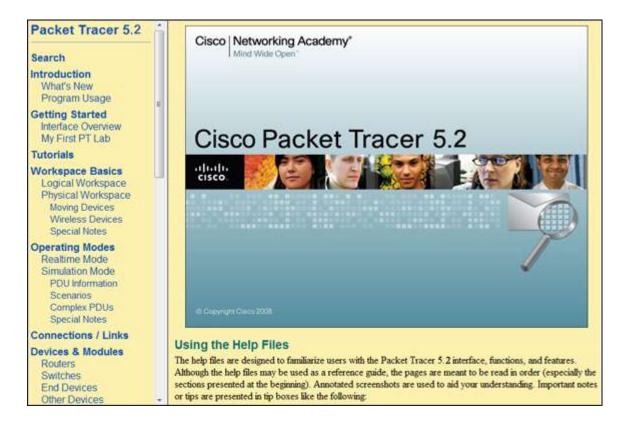
#### **Packet Tracer Forum**



# **Reference Topologies**

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#### **Help and Tutorials**



# **Distribution of PT**

- Addressing the "Digital Divide" in Networking
- Improving e-learning from "e-reading and e-watching" to "e-doing"
- Distribute to students using password protected download, CD or memory stick
- Install on classroom computers

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### **Please Communicate**

- Share .pkt and .pka files
- Share success stories
- Report bugs using the Packet Tracer Discussion Forum on the Academy Connection website
- Make suggestions for possible future versions
- PTZ files
- Thank You

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### Q and A



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