Packet Tracer – version 4.0

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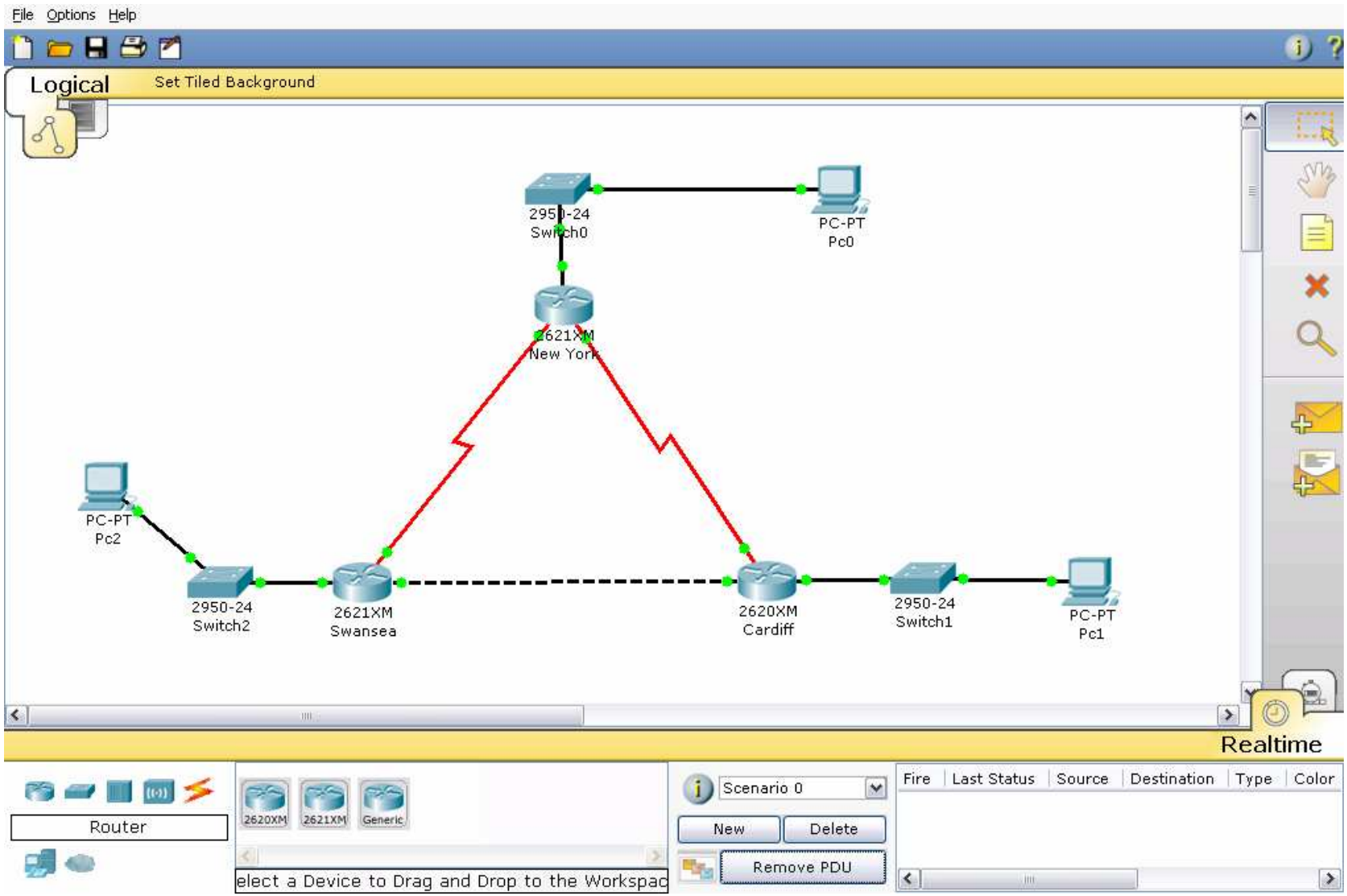
Packet Tracer version 4.0 BETA



Packet Tracer v4.0

- Currently in Beta testing
- Release June 2006
- For instructors
- For Students
- Significant improvements over V3.2

Packet Tracer v4.0 – coverage - examples

- RIP V1 and V2 plus EIGRP
- VLANS – IEEE 802.1q
- PPP – CHAP authentication using router hostname no PAP
- Frame Relay
- Access lists – basic plus extended
- NAT – PAT & DHCP

Packet Tracer v4.0

- Protocol Improvements?

  PT v3.2, plus EIGRP, 802.1q, PPP, Frame Relay

- GUI Improvements?

  Logical & physical topologies, real time & movie modes

  Multi-platform, multiple language support

- Knowledge Representations?

  Event viewer, OSI Layer, flowchart, IOS, rack view

- Feedback for Students; Authoring Capabilities?

  Wizard; templates for design, implement, & troubleshoot

- Architecture for PT v4.x?

  Will support OSPF plus other protocols as needed

- Improved Simulation, Animation, and Visualization by When?

  July ‘06

Packet Tracer v4.0 – Switch Commands

Exec Commands

```
Switch#?
Exec commands:
  clear        Reset functions
  configure    Enter configuration mode
  copy         Copy from one file to another
  disable      Turn off privileged commands
  enable       Turn on privileged commands
  erase        Erase a filesystem
  exit         Exit from the EXEC
  logout       Exit from the EXEC
  ping         Send echo messages
  reload       Halt and perform a cold restart
  show         Show running system information
  traceroute   Trace route to destination
  write        Write running configuration to memory, network, or terminal
```

Packet Tracer v4.0 – Switch Commands

Config Commands

```
Configure commands:
  cdp          Global CDP configuration subcommands
  enable       Modify enable password parameters
  end          Exit from configure mode
  exit         Exit from configure mode
  hostname     Set system's network name
  interface    Select an interface to configure
  ip           Global IP configuration subcommands
  line         Configure a terminal line
  no           Negate a command or set its defaults
  vlan         Vlan commands
```

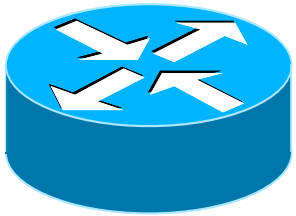
Packet Tracer v4.0 – Switch Commands

Interface Commands

```
Switch(config-if)#?
  cdp             Global CDP configuration subcommands
  description     Interface specific description
  duplex          Configure duplex operation.
  exit            Exit from interface configuration mode
  mac-address     Manually set interface MAC address
  no              Negate a command or set its defaults
  shutdown        Shutdown the selected interface
  speed           Configure speed operation.
  switchport      Set switching mode characteristics
```

Packet Tracer v4.0 – Router Commands

Exec Commands

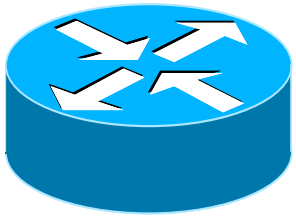


Exec commands:

clear	Reset functions
configure	Enter configuration mode
copy	Copy from one file to another
debug	Debugging functions (see also 'undebug')
disable	Turn off privileged commands
enable	Turn on privileged commands
erase	Erase a filesystem
exit	Exit from the EXEC
logout	Exit from the EXEC
no	Disable debugging informations
ping	Send echo messages
reload	Halt and perform a cold restart
show	Show running system information
traceroute	Trace route to destination
undebug	Disable debugging functions (see also 'debug')
write	Write running configuration to memory, network, or term

Packet Tracer v4.0 – Router Commands

Configure Commands

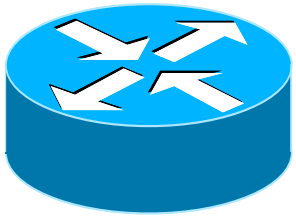


Configure commands:

access-list	Add an access list entry
cdp	Global CDP configuration subcommands
enable	Modify enable password parameters
end	Exit from configure mode
exit	Exit from configure mode
hostname	Set system's network name
interface	Select an interface to configure
ip	Global IP configuration subcommands
line	Configure a terminal line
no	Negate a command or set its defaults
router	Enable a routing process
username	Establish User Name Authentication

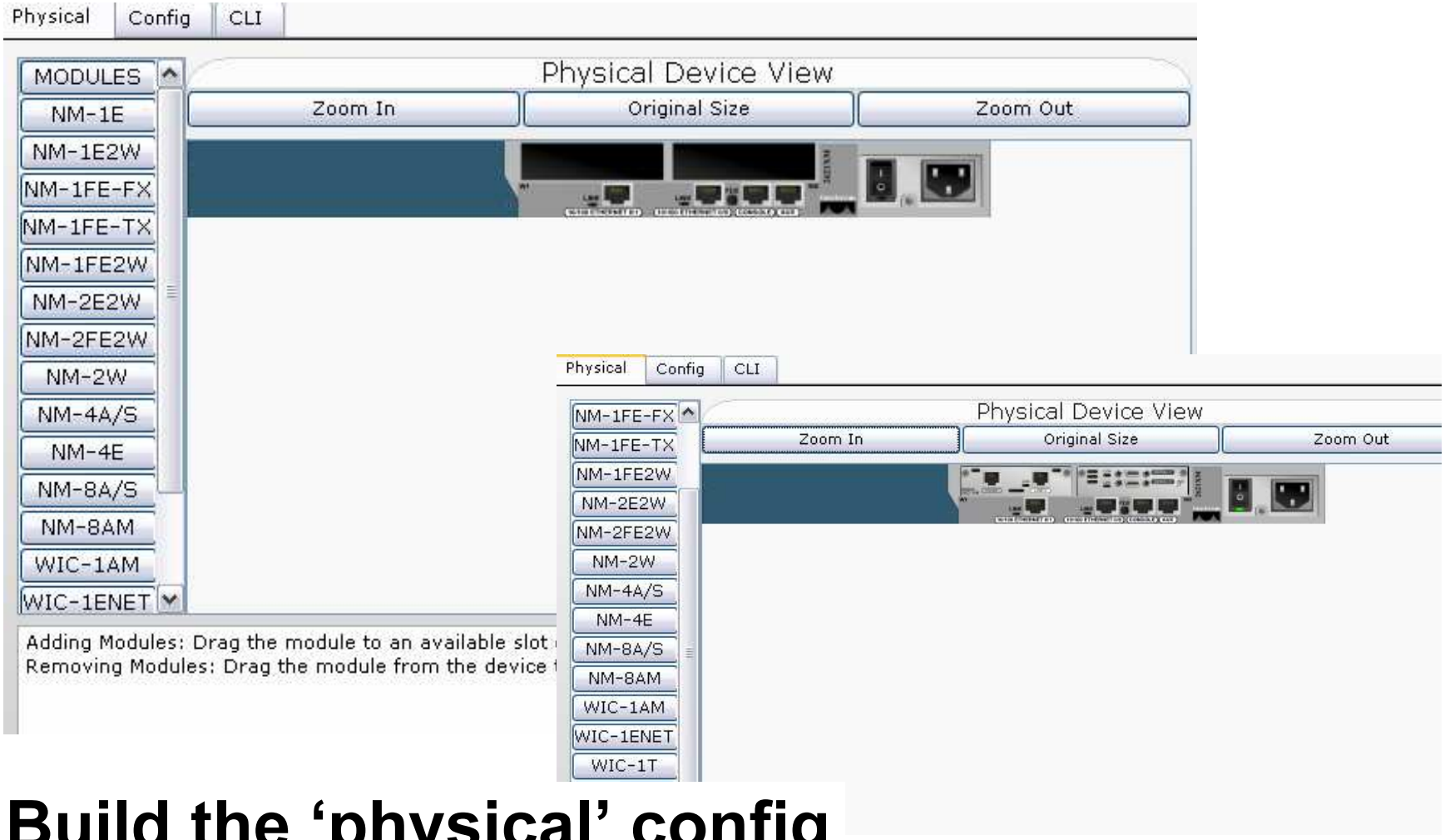
Packet Tracer v4.0 – Router Commands

Interface Commands



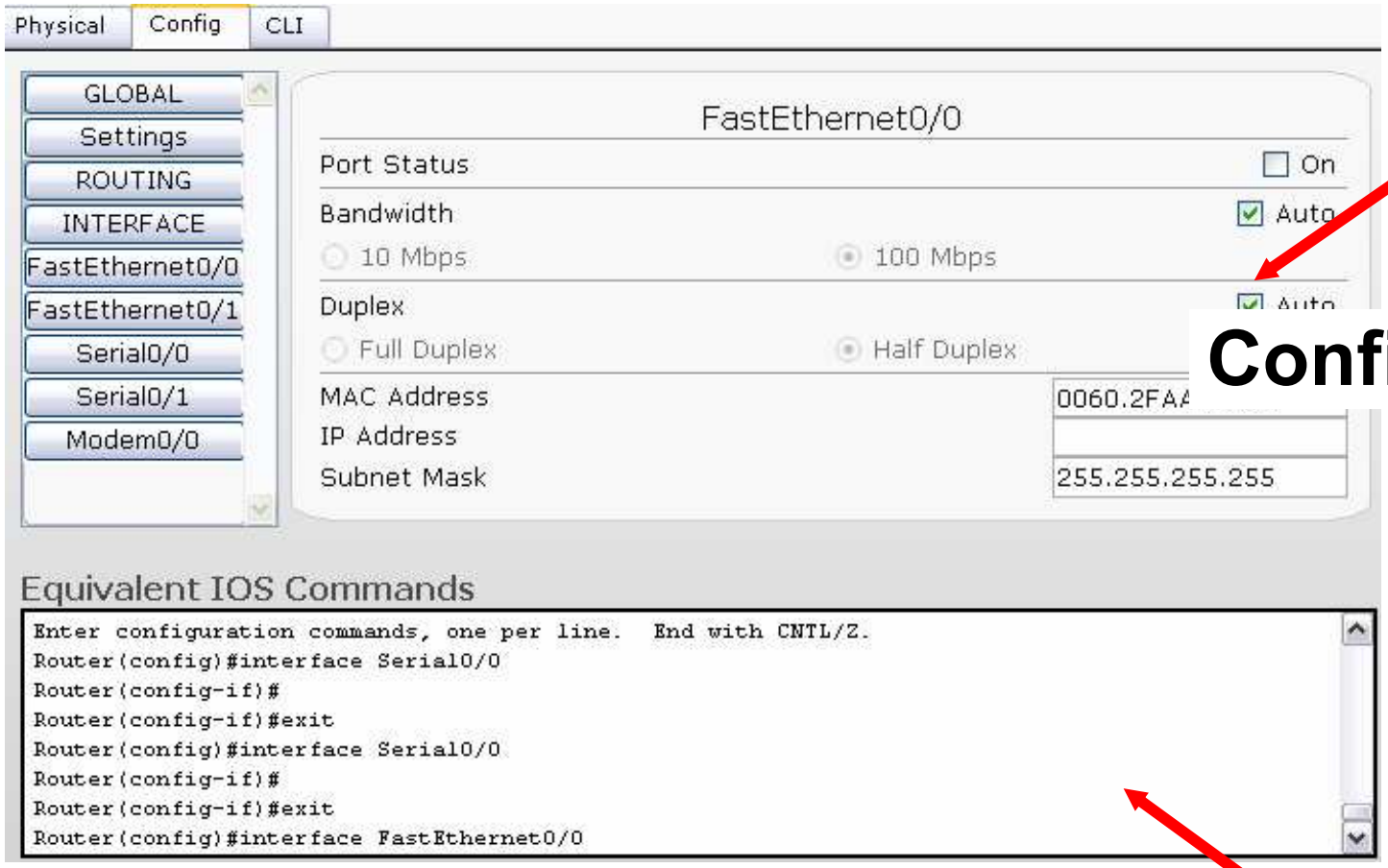
```
Router(config-if)#?
  bandwidth      Set bandwidth informational parameter
  cdp            CDP interface subcommands
  clock          Configure serial interface clock
  delay          Specify interface throughput delay
  description    Interface specific description
  encapsulation  Set encapsulation type for an interface
  exit           Exit from interface configuration mode
  frame-relay    Set frame relay parameters
  ip             Interface Internet Protocol config commands
  keepalive      Enable keepalive
  no             Negate a command or set its defaults
  ppp            Point-to-Point Protocol
  shutdown       Shutdown the selected interface
```

Packet Tracer v4.0 – Interface & Features



Build the ‘physical’ config

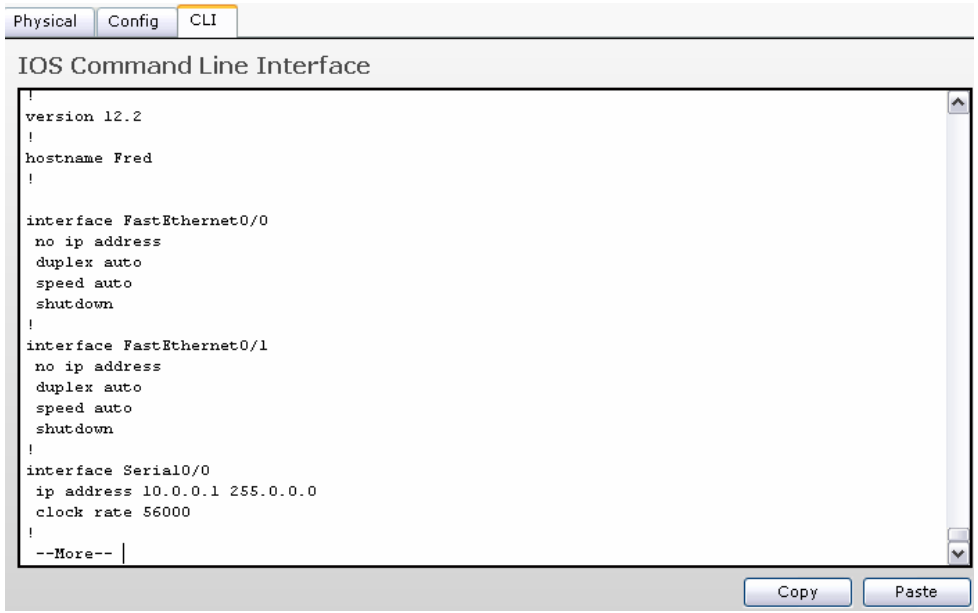
Packet Tracer v4.0 – Interface & Features



Config Wizard

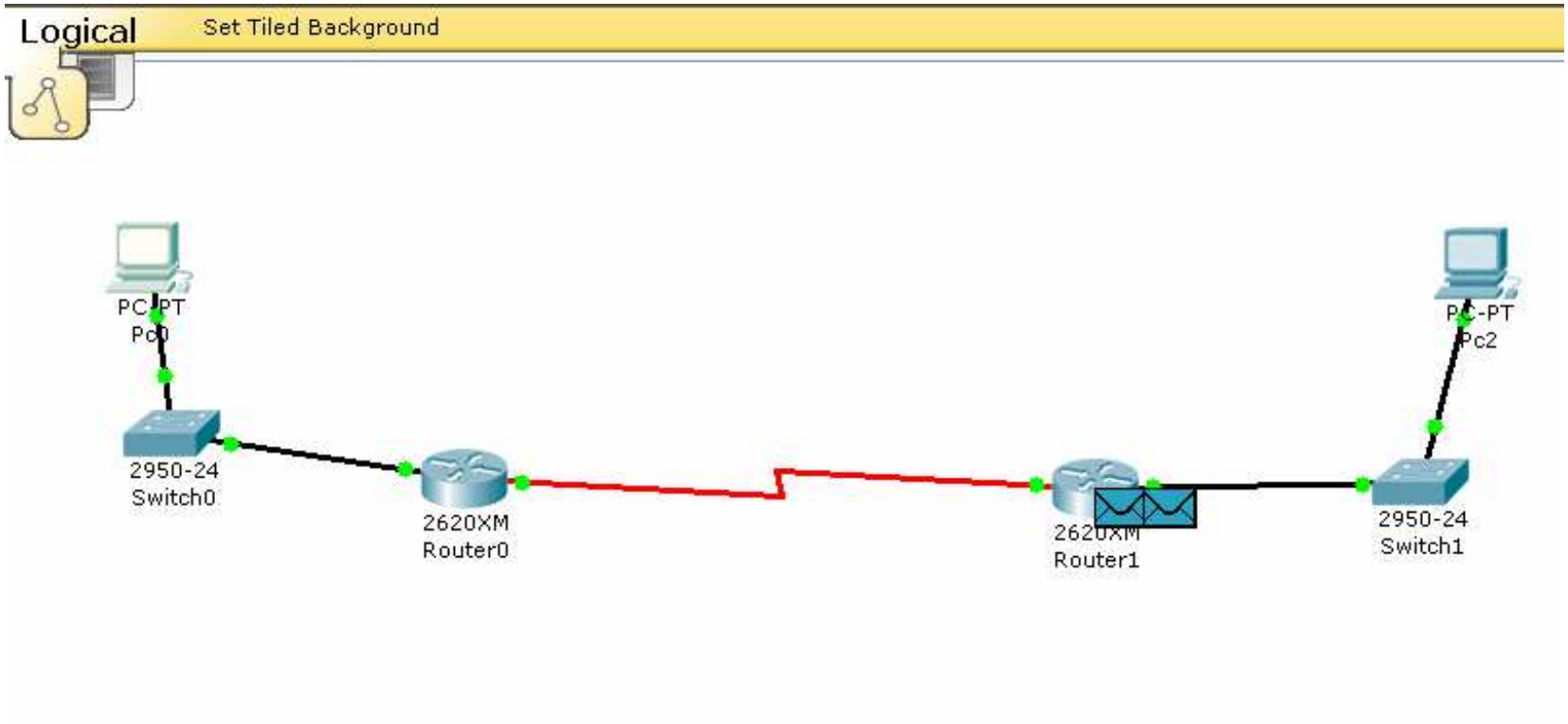
Equivalent IOS commands

Packet Tracer v4.0 – Interface & Features



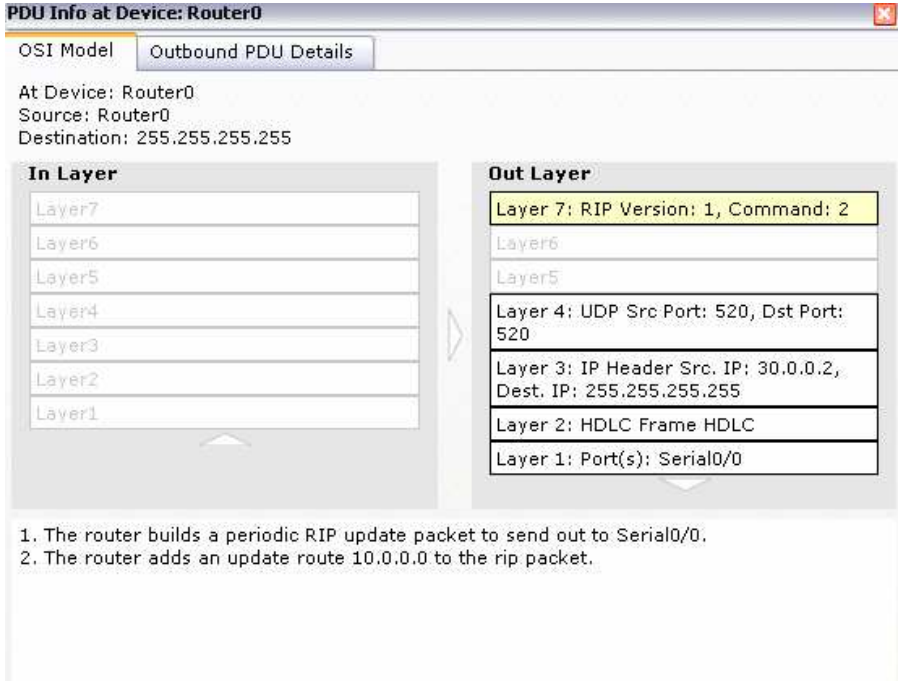
- Full command line emulation
-
- Understands short commands
  e.g sh ru, conf t
- Can copy and paste configs
- Look and feel of 'real' equipment

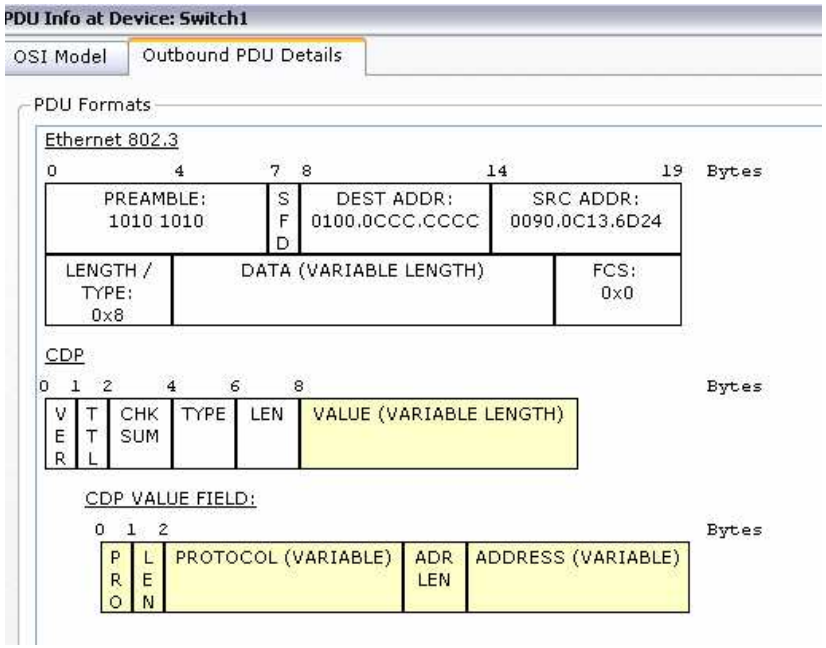
Packet Tracer v4.0 – Interface & Features



Full simulation of networks

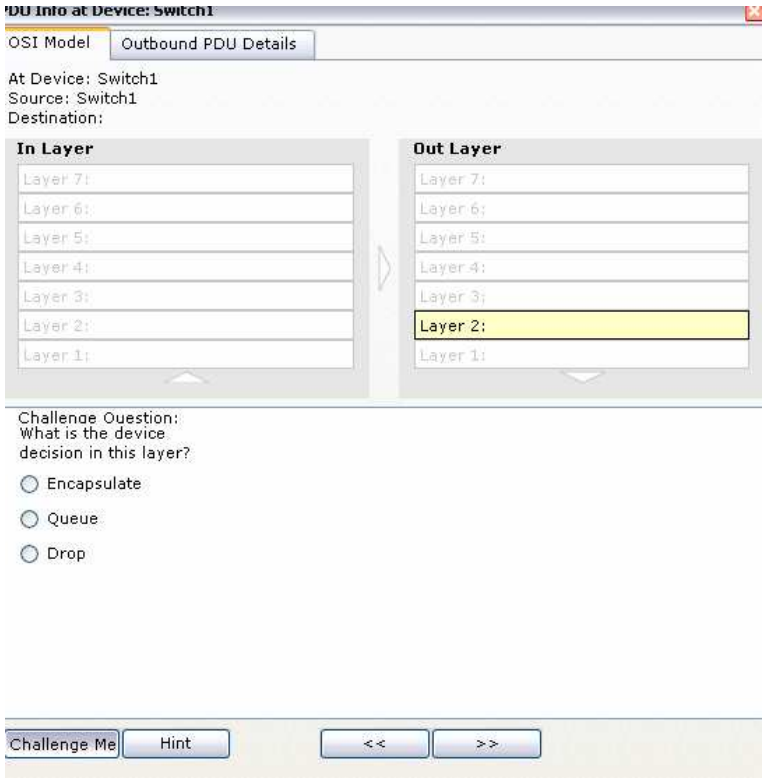
Packet Tracer v4.0 – Interface & Features





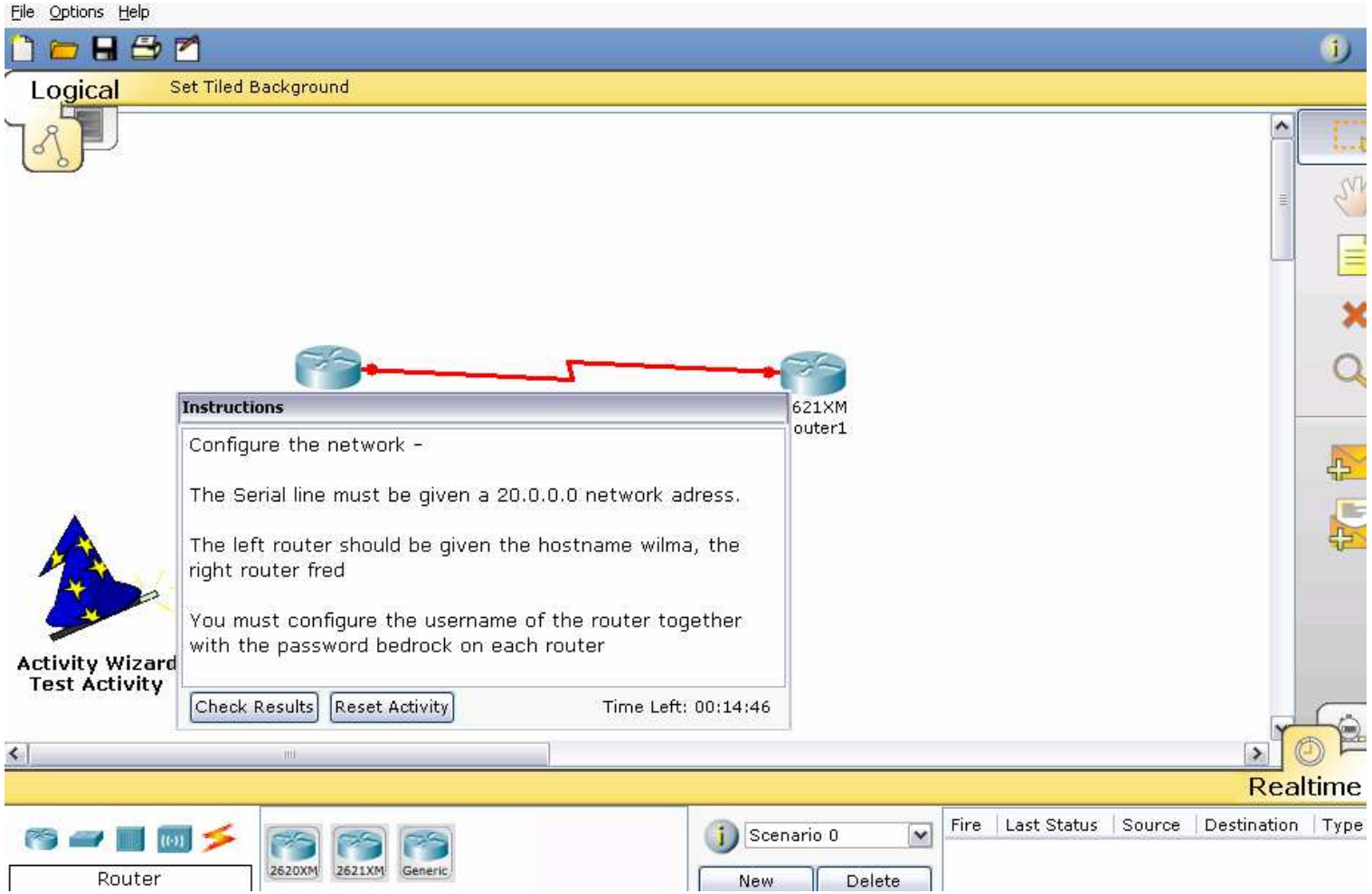
Drill down in to PDU's

Packet Tracer v4.0 – Interface & Features



With challenge questions

Packet Tracer v4.0 – Interface & Features



Activity wizard

Packet Tracer v4.0 – Examples

Demo

Presentation_ID
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