

## **Presenter Demonstration Notes: PT Advanced**

This presentation is designed for instructors who have intermediate knowledge of Packet Tracer. The audience of participants should have basic/intermediate skills such as creating devices, configuring devices or using Simulation Mode. The presentation details the use of Activity Wizard in designing activities for student use.

There are speaker notes for each slide that can be helpful when discussing the concepts on that slide. After completing the PowerPoint presentation, you should follow the steps to demonstrate the Activity Wizard.

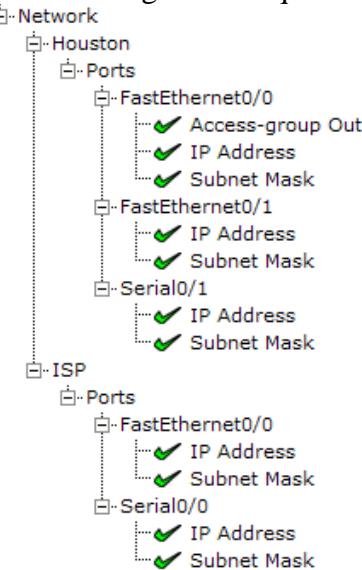
### **Activity Wizard Demo**

Included in the presentation package are some files to use to demo the Activity Wizard. These files will make your demo easy and successful.

#### Demo Steps

1. Open Packet Tracer to a blank topology.
2. Go to **File...Activity Wizard**.
3. Talk about the **Welcome Screen** and point out some of the steps.
4. Click on the **Instructions** button.
5. Talk about how instructors can type directly into the window, or use an HTML editor to create more complex instructions. Tell instructors that you are going to paste in HTML code that was created by Microsoft FrontPage and saved as a .txt file.
6. Open the files named, **Instructions\_page1.txt** and **Instructions\_page2.txt**. Copy all text (Ctrl+A then Ctrl+C) from **Instructions\_page1.txt** and paste into the Edit window (Ctrl+V).
7. Click the **Preview as HTML** tab to demonstrate that the HTML code has been rendered properly. Read through the first set of instructions.
8. Create a second window of instructions by clicking the + button. Copy all text (Ctrl+A then Ctrl+C) from **Instructions\_page2.txt** and paste into the second Edit window (Ctrl+V).
9. Click the **Preview as HTML** tab to demonstrate that the HTML code has been rendered properly. Read through the second set of instructions and talk about what items we would possibly want to assess.
10. Click the **Answer Network** button. Point out that you will be importing a previously saved file.
11. Click the **Import File to Answer Network** button. Navigate to the **Answer Network.pkt** file that was included with this presentation.
12. Click the **Show Answer Network** button to show instructors what we want students to end up with when they finish their configuration tasks. Click the Wizard hat to return to the Activity Wizard.
13. Talk about the Assessment Options and what we might wish to assess based on our instructions. Point out that we gave students clear directions to configure IP addresses on all devices.

14. Under Assessment Items check the following list of required components:



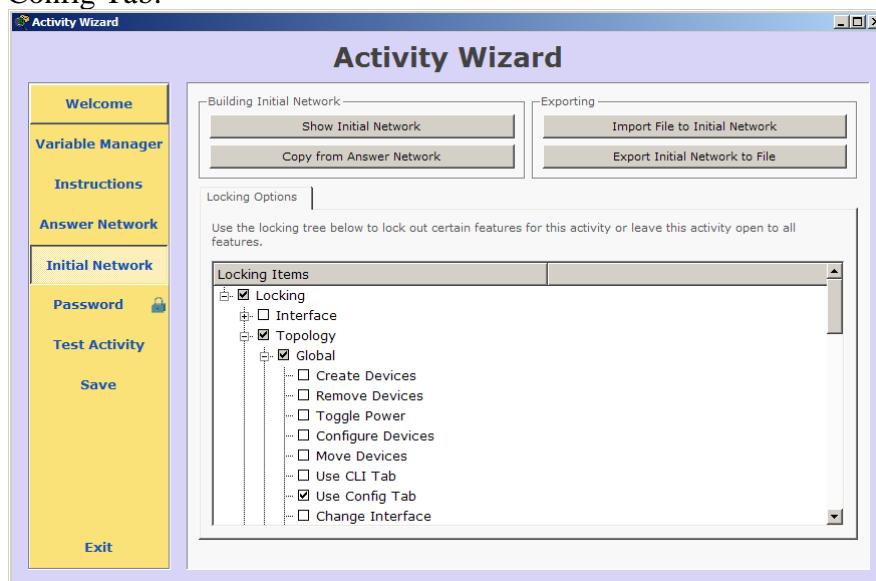
15. You can add feedback specific to each item to be assessed. Click once in the space to the right of the assessment item. Type the text to use. After typing, press the **Enter** key.

16. Click on the **Initial Network** button. Then click on **Import File to Initial Network**. Navigate to the **Initial Network.pkt** file included with this presentation. Talk to instructors about the other ways you could have generated your Initial Network, such as using the Answer Network and deleting IP addresses, etc.

17. Click the **Show Initial Network** button and point out that our devices do not have IP addresses, masks, and no ACL has been applied on Houston router. Remind instructors of the relationship between what's "missing" here and what we chose to assess.

18. Click on the wizard hat to return to the Activity Wizard.

19. Discuss the Locking Options feature. Any item with a checkmark in the list of Locking Items indicates that students are locked out of that feature. In other words, students will not be allowed to perform the tasks with a checkmark. Force the students to configure all devices by only using command-line interface (CLI). To accomplish this, you will lock the students out of using the Config Tab.



20. Set a password of **cisco** on the activity. The PT activities that are included with PT4.1 or greater have the standard password of **PT\_user!**.
21. Click the **Test Activity** button. Point out that the Instructions are what students will see to guide them through the activity. The window can be moved, but not closed. Place a checkmark in the checkbox located in the lower left corner to keep the instructions always on top.
22. Minimize the instructions windows and point out that it was minimized to the Task Bar.
23. Do not make any configuration changes, but click the **Check Results** button to see what students will see when they finish.
24. You should see that you have 0/11 components correct and a screen similar to this one:

**Activity Results** Time Elapsed: 00:03:58

You did not complete the activity. Please close this window and try again.

Overall Feedback | Assessment Items | Connectivity Tests |

Assessment Items	Status	Feedback
<ul style="list-style-type: none"> <li>Network           <ul style="list-style-type: none"> <li>Houston               <ul style="list-style-type: none"> <li>Ports                   <ul style="list-style-type: none"> <li>FastEthernet0/0                       <ul style="list-style-type: none"> <li>Access-group Out: Incorrect</li> <li>IP Address: Incorrect</li> <li>Subnet Mask: Incorrect</li> </ul> </li> <li>FastEthernet0/1                       <ul style="list-style-type: none"> <li>IP Address: Incorrect</li> <li>Subnet Mask: Incorrect</li> </ul> </li> <li>Serial0/1                       <ul style="list-style-type: none"> <li>IP Address: Incorrect</li> <li>Subnet Mask: Incorrect</li> </ul> </li> </ul> </li> <li>ISP               <ul style="list-style-type: none"> <li>Ports                   <ul style="list-style-type: none"> <li>FastEthernet0/0                       <ul style="list-style-type: none"> <li>IP Address: Incorrect</li> <li>Subnet Mask: Incorrect</li> </ul> </li> <li>Serial0/0                       <ul style="list-style-type: none"> <li>IP Address: Incorrect</li> <li>Subnet Mask: Incorrect</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul> </li></ul>	Completed Components : 0	Required Components : 11
<b>Component Types:</b>		
	IP : 0/10	
	Routing : 0/0	
	ACL : 0/1	
	NAT : 0/0	
	Physical : 0/0	
	Switching : 0/0	
	Others : 0/0	

**Close**

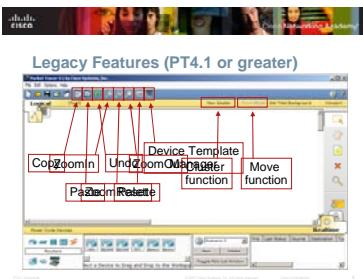
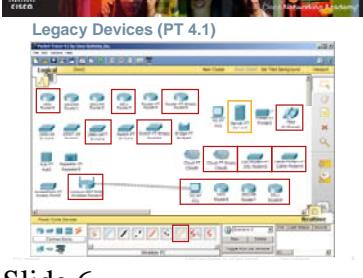
25. Demonstrate editing an existing .pka file by opening the file named “Activity Wizard Sample.pka” that was included with this presentation.
26. When the file is open, use the File...Activity Wizard menu to access the edit screens. When prompted for the password, enter “cisco”.
27. Show that any of the elements can be edited.

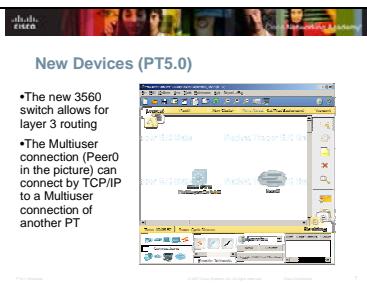
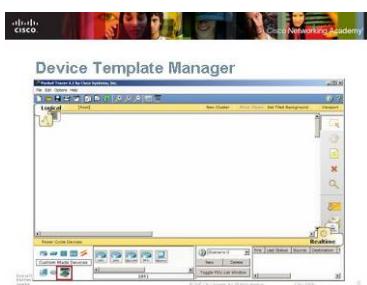
## **Presenter Demonstration Notes: PT Advanced**

	<p><b>Topic, Audience, Goal/Purpose of this PowerPoint presentation:</b> This presentation is designed for instructors who have intermediate knowledge of Packet Tracer. The audience of participants should have basic/intermediate skills such as creating devices, configuring devices and using Simulation Mode. The presentation details the use of Activity Wizard in designing activities for student use.</p> <p>There are speaker notes for each slide that can be helpful when discussing the concepts on that slide. After completing the PowerPoint presentation, you should follow the steps to demonstrate the Activity Wizard.</p> <p>1. Who is the intended audience? Academy instructors; primarily related to CCNA content Academy instructors who already have basic and intermediate skills using Packet Tracer. Basic skills include:</p> <ul style="list-style-type: none"><li>• Create &amp; arrange devices</li><li>• Create connections</li><li>• Configure devices</li><li>• Add notes</li><li>• Use PC desktop applications</li><li>• Create a simple simulation</li></ul> <p>Intermediate skills include:</p> <ul style="list-style-type: none"><li>• Using Simulation Mode</li><li>• Creating scenarios</li><li>• Examining PDU information</li><li>• Using the Challenge Mode</li></ul> <p>If you don't already know these skills, you should start with the Novice session and/or the Intermediate session.</p> <p>2. What is the intended learning environment for using this PPT? Remote; 60 minute session using WebEx and the WebEx Internet Phone feature. You may use another web conferencing tool along with a conference call or a phone bridge. Also, these materials may be easily modified for use in an in-person environment.</p> <p>3. What is the goal/purpose of these materials? For academy instructors and those interested in learning to use Packet Tracer 4.1 or greater Activity Wizard to design and create Packet Tracer activities. The purpose of this demonstration is to provide instructors with specific examples of how to teach using these features of Packet Tracer. By using specific examples, instructors will be able to see how they can add Packet Tracer to their classroom toolkit.</p>
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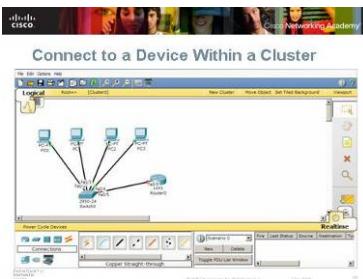
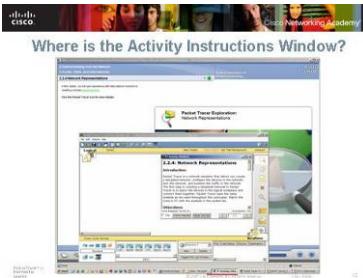
	<p>4. Prior to web conference session</p> <p>Send the ppt file to participants prior to the training session. Have participants print out the ppt as a handout in advance. Demonstrate PT over WebEx while participants follow along with their handout. Participants may then make notes on the handout during the session - or - If the participant has the available computers, they could have one logged into the WebEx session and the other they could use to practice using PT4.1.</p> <p><b>NOTE:</b> This PPT and Speaker Notes were created by updating the “PT Advanced” PPT and Presenter Notes. The updates are based on PT5.0 (RC1) on July 15, 2008.</p>
 <p>Title Slide</p>	<p><b>Cisco Networking Academy Program</b>  <b>Packet Tracer: Advanced Session</b></p> <p>Welcome. This 60-minute session will not allow much opportunity for you to speak so during the session please feel free to type questions in the WebEx chat window.</p> <p>Thank you for participating in this session of Packet Tracer. To get an idea of the experience-level of this group, I would like to ask you a few questions and ask you to use the “yes” and “no” indicators to respond. If you look in the right-hand side of the WebEx window, you should see the <b>yes</b> and <b>no</b> buttons. Click on the <b>yes</b> button to demonstrate that you have found it. Thank you.</p> <ul style="list-style-type: none"> <li>• Have you seen or tried PT before?</li> <li>• Have you used any version of PT before in your teaching?</li> <li>• Did you participate in the Packet Tracer Novice session?</li> <li>• Did you participate in the Packet Tracer Intermediate session?</li> </ul> <p>The focus of this presentation is on using the Activity Wizard to design Packet Tracer activities. It is important that instructors have basic and intermediate skills in order to fully understand the tasks in this presentation.</p>

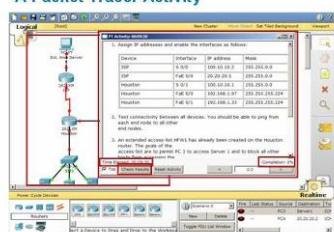
 <p><b>PT Advanced Session</b></p> <ul style="list-style-type: none"> <li>PT Features.</li> <li>The Activity Wizard is an assessment tool that allows you to create highly specific networking scenarios for other users.</li> <li>This tool is particularly useful for instructors creating activities for students to complete.</li> <li>When students start an activity, they are presented with an initial network and a set of instructions. Students follow the instructions to complete the activity, then they can check their finished network.</li> <li>Instructors have control over many aspects of the activity.</li> </ul> <p>Slide 2</p>	<p><b>Slide 2 – PT Advanced Session</b></p> <p>Academy instructors who already have basic and intermediate skills using Packet Tracer.</p> <p><b>Basic skills include:</b></p> <ul style="list-style-type: none"> <li>• Create &amp; arrange devices</li> <li>• Create connections</li> <li>• Configure devices</li> <li>• Add notes</li> <li>• Use PC desktop applications</li> <li>• Create a simple simulation</li> </ul> <p><b>Intermediate skills include:</b></p> <ul style="list-style-type: none"> <li>• Using Simulation Mode</li> <li>• Creating scenarios</li> <li>• Examining PDU information</li> <li>• Using the Challenge Mode</li> </ul> <p>If you do not already know these skills, you should start with the Novice session and/or the Intermediate session.</p> <p>This presentation will cover the Activity Wizard, an assessment tool that allows you to create highly specific networking scenarios for other users. This tool is particularly useful for instructors creating activities for students to complete. When students start an activity, they are presented with an initial network and a set of instructions. Students follow the instructions to complete the activity, and then they can check their finished network.</p> <p>Instructors have control over many aspects of the activity.</p>
 <p>PT Features</p>  <p>Slide 3</p>	<p><b>Slide 3 – PT Features</b></p>

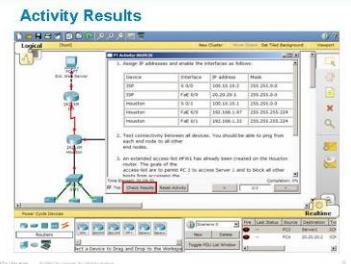
 <p>Slide 4</p>	<p><b>Slide 4 - Features ( PT4.1 or greater)</b>  If you have used a previous version of Packet Tracer, then you will be very interested in learning about some of the new features included in PT4.1 or greater.</p> <p><b>Zoom viewing tools</b> have been added.</p> <ul style="list-style-type: none"> <li>• ZoomIn (Ctrl+I) to zoom into the workspace.</li> <li>• ZoomOut (Ctrl+U) to zoom out of the workspace.</li> <li>• ZoomReset (Ctrl+T) to reset the zoom of the workspace.</li> </ul> <p><b>Editing tools</b></p> <ul style="list-style-type: none"> <li>• Copy (Ctrl+C) to copy the selected item.</li> <li>• Paste (Ctrl+V) to paste the selected item.</li> <li>• Undo (Ctrl+Z) to undo the previous action.</li> </ul> <p>The drawing <b>Palette tool</b> (Ctrl+D) and <b>Device Template Manager</b></p> <p><b>A Cluster function</b></p> <ul style="list-style-type: none"> <li>• Cluster function will group devices into a cloud.</li> </ul> <p><b>A Move function</b></p> <ul style="list-style-type: none"> <li>• Move will take a device and move it into or out of a cloud.</li> </ul>
 <p>Slide 5</p>	<p><b>Slide 5 – Other GUI Improvements</b></p> <ul style="list-style-type: none"> <li>• Another GUI improvement is the ability to create a copy of a device by performing a &lt;Ctrl&gt;&lt;drag&gt; copy on single or groups of objects. For this example, assume you want a copy of the 1841 router. <ol style="list-style-type: none"> <li>0. Place the mouse pointer on Router0.</li> <li>0. Hold the Control key down.</li> <li>0. Click and drag the duplicate router off to the side.</li> <li>0. Click on the duplicate router name to edit</li> </ol> </li> <li>• Using the Place Note tool, you can write and place sticky notes anywhere in the workspace. Now in PT4.1 and greater, you can select several notes as a group and then copy and paste them.</li> </ul>
 <p>Slide 6</p>	<p><b>Slide 6 – Legacy Devices (PT4.1)</b></p> <ul style="list-style-type: none"> <li>• New router models: 1841, 2811, Generic empty router</li> <li>• New switch models: 2960, Generic empty switch</li> <li>• New wireless device: Linksys WRT300N</li> <li>• New end device: 7960 IP Phone</li> <li>• New WAN emulation devices: Empty cloud, DSL modem, Cable modem</li> <li>• New category of Custom Made Devices <ul style="list-style-type: none"> <li>• The Custom Made Devices are devices with some pre-configuration and some added interfaces. As you can see the PC1 must have a wireless NIC since the Linksys Wireless Router and PC1 have found each other.</li> </ul> </li> <li>• New connection type: Coaxial cable</li> <li>• The server has evolved from being another icon for a host to actually having some server functionality. The four services available are WWW, DHCP, TFTP, and DNS.</li> </ul>

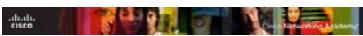
	<p><b>Slide 7 – New Devices in PT5.0</b></p> <p>The new 3560 switch allows for layer 3 routing The Multiuser connection (Peer0 in the picture) can connect by TCP/IP to a Multiuser connection of another PT</p>
<p>Slide 7</p>  <p>Slide 8</p>	<p><b>Slide 8 – Device Template Manager</b></p> <p>The Device Template Manager was added to PT4.1 or greater in response to a number of requests from instructors to be able to create pre-configured devices. The Device Template Manager allows you to save devices as templates and create devices from the saved templates.</p> <ol style="list-style-type: none"> <li>1. To create a custom device template, first place a device on the workspace. Then add modules, if desired, and/or configure, if desired.</li> <li>2. Click on the <b>Custom Devices Dialog</b> button.</li> <li>3. Click on the <b>Select</b> button.</li> <li>4. The Device Template Manager window will close. Now click on the device to make into a template.</li> <li>5. The Device Template Manager window will reappear. Edit the name and add a description. Click the <b>Add</b> button.</li> <li>6. PT4.1 will prompt you to save your device template. <ul style="list-style-type: none"> <li>• To add a custom device on the Logical Workspace, click on the <b>Custom Made Devices</b> icon in the <b>Device-Type Selection Box</b> to display the custom devices in the <b>Device-Specific Selection Box</b>. Here you will find all of the device templates that have been created. You can then add the custom devices to the Logical Workspace as you would with other devices.</li> <li>• To remove a custom device on the Logical Workspace, click on the <b>Custom Devices Dialog</b> on the <b>Main Tool Bar</b> to open the <b>Device Template Manager</b>. Under the Edit section, select the device template that you want to remove in the drop down menu and then click on the Remove button. The device template file that was saved in the 'templates' directory will be removed as well.</li> </ul> </li> </ol>

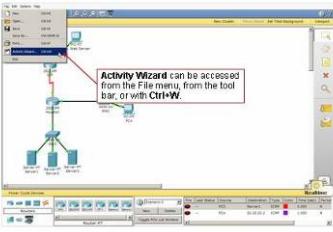
	<h3>Slide 9 – Port Label Options and Other Options</h3> <ul style="list-style-type: none"> <li>• Alternately, you can choose to have <b>Port Labels Always Show</b> from the <b>Options</b> menu.</li> <li>• Two features in PT4.1 or greater that were added based on instructor requests are the <b>Show Link Lights</b> option and the <b>Hide Device Label</b> option. Use these options to show or hide the device link lights and the device labels.</li> </ul>
	<h3>Slide 10 – Clustering Devices</h3> <ul style="list-style-type: none"> <li>• New to PT4.1 or greater is the feature of clustering devices to simplify the appearance of the Logical Workspace. Clustering reduces a group of devices and connections into a single image.</li> <li>• By default, devices are created in the Root level, which is indicated on the Logical/Physical Workspace Bar. In this slide, you see a small network of 4 PCs and a switch and this network is located at the Root level in the Logical Workspace.</li> <li>• To cluster this small network, select the devices on the workspace and then click on the New Cluster button.</li> <li>• To drill down into the cluster, simply click on the cluster. Notice in the navigational bar Cluster0 is listed.</li> <li>• To move back to the Root level, click on Root in the navigational bar.</li> <li>• To rename the cluster, click on its label to enable the label textbox.</li> <li>• To uncluster a group of devices, highlight the cluster and then delete it with the Delete tool.</li> </ul>

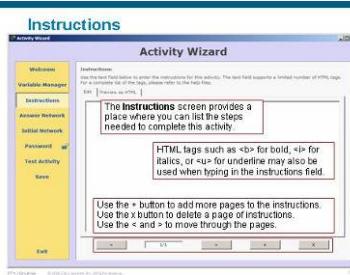
 <p>Slide 11</p>	<p><b>Slide 11 – Connect to a Device Within a Cluster</b></p> <ul style="list-style-type: none"> <li>• You can make a connection from a device outside of a cluster to a device within a cluster. In this example, the router is connected to the switch within the cluster using a copper straight-through cable.</li> <li>• Select the connection type of a copper straight-through cable. Click on the router and select one of the FastEthernet interfaces.</li> <li>• Then click on the cluster. From the menu, select Switch0 and then select one of the FastEthernet interfaces on the switch.</li> <li>• Let's say you have decided that the router should have been created within the cluster instead of outside of the cluster. You can move the router into the cluster using the Move Object button.</li> <li>• Click on the Move Object button</li> <li>• Also, when you can create a cluster, you can move objects and devices within the cluster hierarchy with the Move Object button. To do so, click on the Move Object button and then select an object or device. This opens a menu showing the cluster hierarchy. You can then select the location to which the object should be moved.</li> </ul>
 <p>Slide 12</p>	<p><b>Slide 12 – Multiple Device Windows</b></p> <ul style="list-style-type: none"> <li>• PT4.1 or greater supports multiple device windows open simultaneously. Notice in this slide there are two device windows open and visible simultaneously and they are independent of the main PT frame. Pop-up windows are now treated as independent windows so you can place them anywhere on the desktop. You can maximize and minimize windows by clicking the buttons in the Task Bar or by using the <b>&lt;Alt&gt;&lt;Tab&gt;</b> key combination. You can have as many windows open as you need.</li> </ul>
 <p>Slide 13</p>	<p><b>Slide 13 – Where is the Activity Instructions Window?</b></p> <ul style="list-style-type: none"> <li>• Due to the added feature of independent windows in PT, you may lose track of various windows. Remember you can maximize and minimize windows by clicking the buttons in the Task Bar or by using the <b>&lt;Alt&gt;&lt;Tab&gt;</b> key combination.</li> <li>• In this slide, you see a screenshot of a Packet Tracer Activity launched from CCNA 1 Exploration 4.0. In a PT4.1 or greater Activity (a .pka file), it is not possible to close the Activity Instructions window. When you click on the Close button of the Activity Instructions window, the window is minimized in the Task Bar.</li> <li>• To maximize the window again, click on the <b>PT Activity</b> button in the Task Bar.</li> </ul>

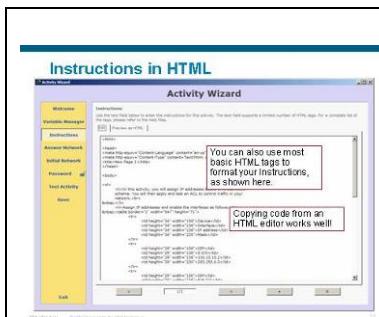
 <p>Slide 14</p>	<p><b>Slide 14 – Look at an Activity</b> First, we will look at an activity from the perspective of a student.</p>
 <p>Slide 15</p>	<p><b>Slide 15 – A Packet Tracer Activity</b> The Packet Tracer Activity Wizard is an assessment tool that enables an instructor to create detailed networking scenarios for students to complete. A Packet Tracer activity file has the .pka extension.</p> <p>A PT activity can include the following elements:</p> <ul style="list-style-type: none"> <li>• An initial network or starting topology to begin with in completing the activity</li> <li>• Detailed instructions to follow in completing the activity</li> <li>• Automatic scoring and feedback by clicking Check Results button and viewing the Percentage Complete indicator. Every 3 seconds the progress of completion is re-evaluated and the indicator is updated.</li> <li>• A timer to measure elapsed time or a countdown clock</li> </ul>

 <b>Slide 16</b>	<p><b>Slide 16 – Activity Results</b></p> <p>The Packet Tracer Activity Wizard is an assessment tool that enables an instructor to create detailed networking scenarios for students to complete. A Packet Tracer activity file has the .pka extension.</p> <p>Other features in PT Activity Wizard include:</p> <ul style="list-style-type: none"> <li>Automatic scoring and feedback by clicking Check Results button and viewing the Percentage Complete indicator. An answer network is used to compare the student's effort to assess their work.</li> <li>Click the Check Results button to view the Activity Results windows.</li> <li>The Overall Feedback tab displays the general feedback on completeness of the activity.</li> <li>The Assessment Items tab displays feedback and status per assessment item. The current score is also displayed. Incorrect items display feedback specific to that item. Correct items will not display that feedback detail.</li> <li>The Connectivity Tests tab displays which PDUs will be evaluated as correct or incorrect based on whether the PDU should be successful or fail.</li> <li>Password protection to maintain the security of the answer network</li> <li>Use of variables to create different activities out of one activity file</li> </ul>
 <b>Slide 17</b>	<p><b>Slide 17 – Activity Wizard</b></p> <p>This PowerPoint presentation will be followed with a demonstration of the PT Activity Wizard.</p>

 <p>Slide 18</p>	<p><b>Slide 18 – PT Activity Wizard Vocabulary</b></p> <p><b>Answer network:</b> The network that you want students to end up with after they perform whatever configuration tasks they are instructed to complete. The “correct” answer.</p> <p>* <b>Initial network:</b> The network that you give students to begin with in completing the activity. This can be as “complete” or incomplete as you like. Just remember that you need to give clear instructions so that students know what Answer network you are expecting.</p>
 <p>Slide 19</p>	<p><b>Slide 19 – What can I assess?</b></p> <ul style="list-style-type: none"> <li>• An assessment item is a feature in the student configuration that must match that feature's configuration in the answer network.</li> <li>• You choose the assessment options by checking items in the expandable tree.</li> <li>• You can check specific features or entire categories. For example, you can check just the IP address of a port of a particular router, or click on the <b>Ports</b> category to check all settings of all ports on the router.</li> <li>• Assessment categories are <ul style="list-style-type: none"> <li>• IP (for example, IP addresses on interfaces)</li> <li>• Physical (for example, bandwidth, power, and duplex settings)</li> <li>• Routing (for example, static routes and routing protocols)</li> <li>• Switching (for example, VLANs)</li> <li>• ACLs</li> <li>• NAT</li> </ul> </li> <li>• The Answer network used in creating the activity will dictate which items may be assessed. If the Answer network contains a router configured with an ACL, then the student could be assessed on creating that ACL. If the Answer network does not have the ACL configured then the student cannot be assessed on creating that ACL.</li> <li>• In the <b>Assessment Items</b>, only the items marked with a green dot can be assigned a variable.</li> </ul>

<p><b>Planning: Create the Answer first...</b></p> <ul style="list-style-type: none"> <li>Using the Activity Wizard is easier with a little up front planning.</li> <li>The easiest way to create activities using the wizard is to create the Answer network first.</li> <li>By removing or editing elements of the answer network, the initial network is created.</li> </ul> <p>Or...</p> <ul style="list-style-type: none"> <li>Import a .pkt file that already contains all or most of the elements you might want to assess. This imported file becomes the Answer network.</li> </ul> <p>Slide 20</p>	<p><b>Slide 20 – Planning: Create the Answer first...</b></p> <ul style="list-style-type: none"> <li>Creating the answer network first allows you to construct a working network with all of the elements that you would like to assess.</li> <li>The answer network can be as complex or as simple as needed for the purpose of the activity.</li> <li>The answer network is edited to remove any of the elements that you wish for students to complete.</li> <li>For instance, if the goal of the activity is to test a student's ability to apply an IP address to an interface and bring it up to operational status, the Answer network would have the interface configured and working. Then the IP address would be removed and the interface would be shut down to create the initial network.</li> </ul>
<p><b>Activity Wizard</b></p>  <p>Slide 21</p>	<p><b>Slide 21 – Activity Wizard</b></p> <ul style="list-style-type: none"> <li>Create or open the .pkt file that you want to use as the Answer network. You should thoroughly test this network to ensure that it has all of the elements that you wish to assess, and that those elements are operational.</li> <li><b>Note:</b> The examples used in this presentation are based on using the Answer Network(pkt file provided with this PowerPoint file.</li> <li>Then open the Activity Wizard.</li> <li>The Activity Wizard can be accessed from the File menu or by clicking on the Activity Wizard button on the tool bar. It can also be opened by typing CTRL+W.</li> </ul>
<p><b>Answer Network</b></p> <p>Slide 22</p>	<p><b>Slide 22 – Answer Network</b></p> <ul style="list-style-type: none"> <li>We will use this topology as the answer network, so we answer <b>Yes</b>.</li> <li>If you wanted to import another file to use as the answer network, you would answer <b>No</b> here and import a file when prompted to do so in a later step.</li> </ul>

 <p>Slide 23</p>	<p><b>Slide 23 – Welcome Screen</b></p> <p>The <b>Welcome</b> screen lists the basic steps you will need to create your activity.</p> <p>You can see that the steps to create the activity are:</p> <ol style="list-style-type: none"> <li>1. Create (or import) the answer network, and set the assessment items.</li> <li>2. Create (or import) the initial network, which will be the user's starting point. A blank initial network may also be used. <b>Note:</b> For accurate scoring, device display names in the initial network must match the display names in the answer network.</li> <li>3. Put constraints on the user's ability to use certain features during the activity.</li> <li>4. Write a clear set of instructions for the activity. (This step is one of the most important steps to ensure accurate scoring.)</li> <li>5. Password-protect the activity to prevent unauthorized changes to activity parameters.</li> <li>6. Save the activity. Activity files are .pka files.</li> </ol> <p>The following slides will provide more detail for each of these steps.</p>
 <p>Slide 24</p>	<p><b>Slide 24 – Instructions</b></p> <p>You can complete the tasks along the left side in the order that works best for you. The third button is <b>Instructions</b>.</p> <ul style="list-style-type: none"> <li>• From the <b>Instructions</b> tab, you can add detailed instructions describing what must be done to complete the activity successfully.</li> <li>• HTML tags such as <b>&lt;b&gt;</b> for bold, <b>&lt;i&gt;</b> for italics, or <b>&lt;u&gt;</b> for underline may also be used when typing in the instructions field. For a full list of supported HTML tags, please go to the <a href="http://doc.trolltech.com/3.3/qstylesheet.html">QStyleSheet Class Reference</a> page at <a href="http://doc.trolltech.com/3.3/qstylesheet.html">http://doc.trolltech.com/3.3/qstylesheet.html</a>.       <ol style="list-style-type: none"> <li>1. Type in the text or paste in copied text.</li> <li>2. Edit the text to include HTML tags, if desired.</li> <li>3. Click on the <b>Preview as HTML</b> tab to see how the instructions will appear to the students.</li> <li>4. Click on the <b>Edit</b> tab if more changes are needed.</li> </ol> </li> <li>• Remember that clear instructions will ensure that students understand the task and will make scoring more accurate. You do not want students to get items incorrect due to poorly written instructions.</li> </ul> <p>New to PT4.1 or greater is the option to have multiple pages of instructions.</p> <ul style="list-style-type: none"> <li>• Use the <b>+</b> button to add more pages to the instructions.</li> <li>• Use the <b>x</b> button to delete a page of instructions.</li> <li>• Use the <b>&lt;</b> and <b>&gt;</b> to move through the pages.</li> </ul>



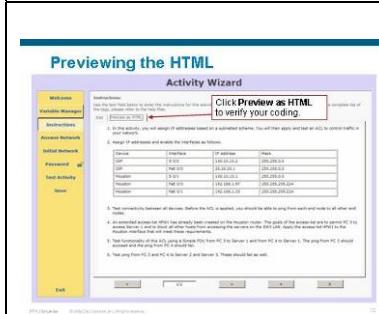
Slide 25

### Slide 25 – Instructions in HTML

- You can use many basic HTML tags or copy HTML code in from an outside HTML editor.
- Copying code from an HTML editor works well! The above example was generated by Microsoft FrontPage.

**Note:** The text used in this example is contained in the Instructions.txt file provided with this PowerPoint file.

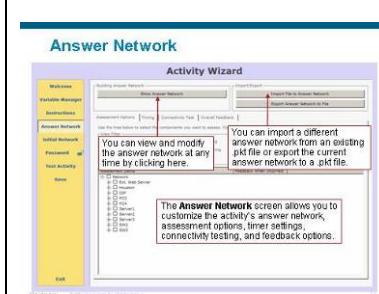
- There are free HTML editors available on the web.



Slide 26

### Slide 26 – Previewing the HTML

- Click **Preview as HTML** to verify your coding.
- If the instructions need edits, remember to go back to your HTML editor to make the changes and then paste the code into the Edit screen.

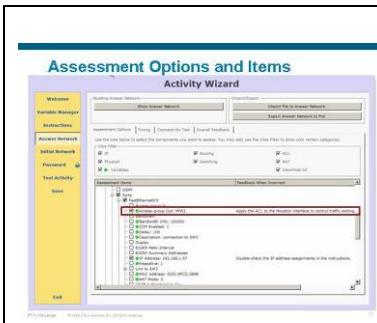


Slide 27

### Slide 27 – Answer Network

The **Answer Network** tab allows you to customize the activity's answer network, assessment options, timer settings, connectivity testing, and feedback options.

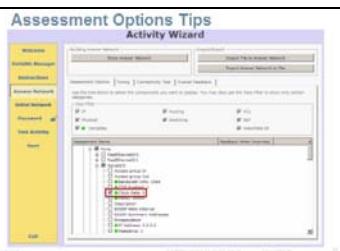
- You can see the answer network at any time by clicking on the **Show Answer Network** button. The answer network can then be modified, if necessary.
- You can also import a different answer network from an existing .pkt file or you can export the current answer network to a .pkt file.



Slide 28

### Slide 28 – Assessment Options and Items

- By default all available **Assessment Options** will be displayed but will be unchecked. This means that no items under those categories will be assessed unless you make changes within the Assessment Items tree.
- For instance, in order to assess the ACL “HFW1” on router Houston, we must navigate the Assessment Items tree and check that ACL in the list.
- This is a good example of the value of clear instructions. Packet Tracer will now assess whether or not a student creates an ACL named “HFW1” on the router Houston. If the instructions are not clear about the name of the ACL, a student would get this “wrong” even if the ACL was correct.
- You can add feedback specific to each item to be assessed. Click once in the space to the right of the assessment item. Type the text to use. After typing, press the **Enter** key.



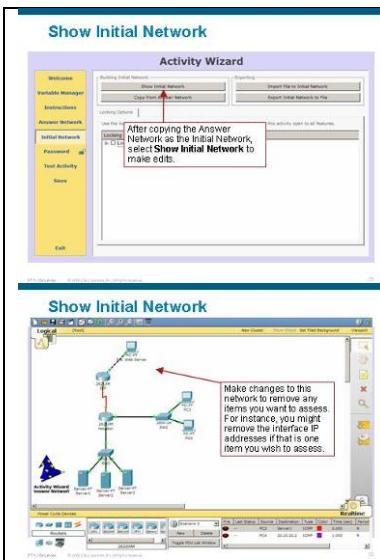
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slide 29

Slide 29 – Assessment Option Tips

1. Notice the assessment item of Enable Secret. When an encrypted password is saved and the file is reloaded, the encrypted password will not match the password that was configured in the enable secret command. Avoid selecting Enable Secret for assessment purposes. The student will never be able to get it correct.
2. If you want to assess a student's ability to configure vty login, then under VTY Line 0 only select Login and Password. That should be sufficient to assess the vty login configuration. Keep in mind that the student will see the assessment items tree under the Assessment Tabs in the Activity Results window. If each of the vty lines (0 – 4) are assessed then they will all be included in the assessment items tree.
3. The Power assessment item under an interface assesses whether or not the student issued the "No Shutdown" command on the interface or whether or not the student turned a port on under the Config Tab. Notice that the terminology is different.
4. When assessing the student's ability to configure an IP address you will most likely want to also assess their ability to configure the appropriate subnet mask. This is especially true when the subnet mask is not the default subnet mask.
5. Be careful. If you place a checkmark next to a device, you have selected that all elements are to be graded. This is probably not what you are trying to assess and will result in a very long assessment item tree.
6. When you are assessing a student's ability to make a specific device connection, consider assessing both the link port and the type of cable connection.
7. When assessing a student's ability to configure serial connections including clock rate, then make sure DCE interfaces and clockrates are specified in the instructions, and select the port's clock rate is to be graded in the Assessment Items list.
8. Grading both ends of a link is redundant, since the cable type can only be the same on each end. If on router A Fa0/0 I say connect to Switch B, Fa0/23, testing either end will assess properly whether the connection has been made.
9. Device and display names in the initial and answer networks must be the same, or the user must be told explicitly how they should configure them, otherwise all grading related to that device will grade incorrectly.
10. If you are going to grade a string variable, such as a display name, hostname, banner, or description, make sure the instructions are explicit. Otherwise the student cannot get that component correct.
11. If you want students to configure the console password, grade both the login parameter and the password.

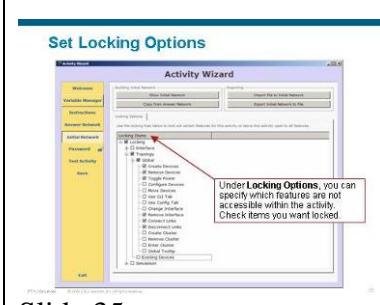
<p>Slide 30</p>	<h3>Slide 30 – Activity Timer</h3> <ul style="list-style-type: none"> <li>Under <b>Timing</b> tab, you can have PT track how much time has elapsed since the activity was started or make this a timed activity.</li> <li>You can use <b>Countdown</b> to give students a limited amount of time to complete the activity.</li> <li>You can also simply turn the timer off by choosing <b>None</b>.</li> <li>The default is <b>Time Elapsed</b>.</li> </ul>
<p>Slide 31</p>	<h3>Slide 31 – Connectivity Test</h3> <p>The connectivity tests are based on the first scenario (Scenario0's PDU list) of the answer network's User Created PDU list. There are three test conditions to choose from: "Do Not Test", "Successful", or "Fail".</p> <ul style="list-style-type: none"> <li>If the PDU is supposed to succeed after all tasks are completed properly then the Test Condition should be marked as Successful.</li> <li>If the PDU is supposed to fail after all tasks are completed properly then the Test Condition should be marked as Fail.</li> <li>If the success or failure of the PDU should not be evaluated, then the Test Condition should be marked as Do Not Test.</li> </ul>
<p>Slide 32</p>	<h3>Slide 32 – Initial Network</h3> <p>The <b>Initial Network</b> tab allows you to set up the initial network and lock certain options within PT.</p> <ul style="list-style-type: none"> <li>The <b>Show Initial Network</b> button will display an empty topology.</li> <li>Use the <b>Copy from Answer Network</b> button to copy the answer network to the initial network.</li> <li>Then click on <b>Show Initial Network</b> button and adjust the initial network so that the assessed items are removed.</li> <li>You can also import and export the initial network.</li> </ul> <p>For this example, only remove the IP addressing and the routing information. Do NOT remove the WICs from the routers.</p>
<p>Slide 33</p>	<h3>Slide 33 – Copy from Answer Network</h3> <p>Replacing the initial network with the answer network cannot be undone.</p>



Slide 34

## Slide 34 – Show Initial Network

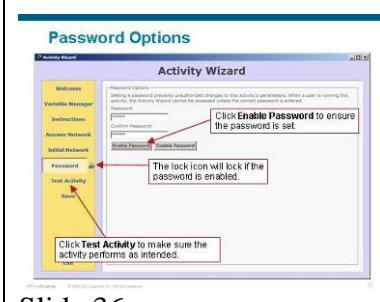
- If you choose **Copy from Answer Network** and you then select **Show Initial Network** you should see your Answer network in PT.
- You will need to edit the network to remove all elements you will be assessing. Remember to click the Activity Wizard hat in the lower left hand corner when you are finished editing.



Slide 35

## Slide 35 – Set Locking Options

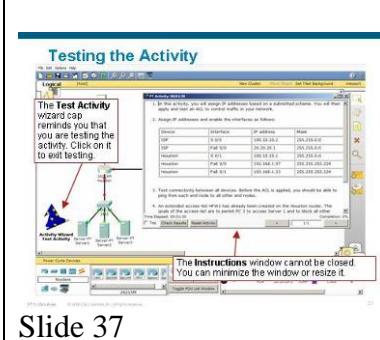
- Under **Locking Options**, you can specify which features are not accessible within the activity. For example, you can prevent devices from being deleted or disconnected. You can force students to only use the CLI Tab to configure devices.



Slide 36

## Slide 36 – Password Options

- The **Password** button allows you to set a password on this activity so that it cannot be changed. Notice the lock icon is unlocked when there is no password set.
- Click **Enable Password** to ensure the password is set.
- The lock icon will lock if the password is enabled.
- The **Test Activity** button allows you to test the activity without having to exit the Activity Wizard.



Slide 37

## Slide 37 – Testing the Activity

- The **Test Activity** wizard cap reminds you that you are testing the activity. Click on it to exit testing.
- Note that the description window cannot be closed. You can minimize the window or resize it so that only the title, **Check Results**, and **Reset Activity** buttons are showing.

	<p><b>Slide 38 – Check Results</b></p> <ul style="list-style-type: none"> <li>• Use the <b>Check Results</b> button at anytime to see how many of the assessed items have been completed so far.</li> <li>• Use the <b>Reset Activity</b> button to restart the activity.</li> </ul>
	<p><b>Slide 39 – Activity Results</b></p> <p>When the student clicks <b>Check Results</b>, she can see exactly which assessment items have not yet been completed or were answered incorrectly.</p>
	<p><b>Slide 40 – Saving the Activity</b></p> <ul style="list-style-type: none"> <li>• The “Save” button allows you to save the activity as a special .pka file.</li> </ul>
	<p><b>Slide 41 – Editing a .pka</b></p> <ul style="list-style-type: none"> <li>• An existing activity file (.pka) can be edited if you know the password or if there was no password configured on the activity.</li> <li>• Open the .pka.</li> <li>• Move the instructions out of the way if necessary and use the File...Activity Wizard menu.</li> <li>• If prompted for the password, enter it in the dialog box.</li> </ul>

 Alison O.	<b>Slide 42 – Q and A</b>
Slide 42	<p>After completing the PowerPoint presentation, refer to the <a href="#">PT50_Advanced_Demo Notes.doc</a> and follow the steps in this document to demonstrate the use of Activity Wizard.</p>
Slide 43	Cisco   Networking Academy® Mind Wide Open™