



✓ **Congratulations! You passed!**

TO PASS 80% or higher

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GRADE
100%

PT Activity - The Client Interaction

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1. PT Activity - The Client Interaction

2 / 2 points

Clients, such as desktop PCs, request services from servers. The lab environment, using physical PCs and servers, supports a full range of services. In a simulated environment, the number of services is limited. Packet Tracer allows the addition of simulated network servers that support DHCP, DNS, HTTP, and TFTP. Packet Tracer also supports the addition of simulated PCs that can request these services. This activity uses a simple network consisting of a PC connected directly to a server configured to supply DNS services as well as hosting a web page through an HTTP server. This activity will track the flow of traffic that happens when a web page is requested, how the IP address of the web page is resolved and the web page is delivered.

Download and open the .pka file The Client Interaction from the link below.

You can open the .docx to preview the steps that will be required to complete the activity.

Complete the activity and answer the questions in this quiz.

Packet Tracer PKA (.pka)

5.1.2.3-Packet-Tracer---The-Client-Interaction_Updated.pka

Packet Tracer Instruction Preview Sheet (.docx)

5.1.2.3 Packet Tracer - The Client Interaction.docx

Learning Objective

Observe the client interaction between the server and PC.

Required Resources

Windows PC with Packet Tracer installed

Refer to the activity. In the activity, you typed "www.example.com" into the URL box of the web browser for the PC. What two steps must the PC take to determine if the network that houses www.example.com is local or remote? (Choose 2.)

☒ Use DNS services to resolve the URL to an IP address.

✓ **Correct**

A device determines if a destination host is local or remote based on the network IP address. The URL "www.example.com" must be translated into an IP address that can be used to make the determination.

☐ Send a ping request to the server.

☒ Use the subnet mask configured on the PC to determine if the network is local or remote.

✓ **Correct**

The subnet mask on the PC is matched against the IP address of the destination to determine if the destination is local or remote.

☐ Use ARP to find the IP address of the server.

☐ Use FTP to download the web page.

2. Refer to the activity. What destination port number was used in the segment that went from the client to the web server for the web page request?

1 / 1 point

80

✓ **Correct**

A host uses port 80 when requesting services from a web server.

3. Refer to the activity. What allows the server to process different requests and to distinguish between the DNS and web services requested by the host?

1 / 1 point

- ☒ port numbers
- ☐ TCP
- ☐ IP addresses
- ☐ UDP

✓ Correct

Source and destination port numbers allow the device to distinguish between the different services and applications that need to process the messages.