Name : **Christine Atieno Oketch**

Student tracking number: **CS-CNS05-24003**

**PART ONE**

1. What is the text displayed next to the layer 7 label?

**Answer: HTTP**

1. What information is listed in the numbered steps directly below the **In Layers** and **Out Layers** boxes for Layer 7?

**Answer**: The http client sends a HTTP request to the server.

1. What is the **Dst Port** value for **Layer 4**under the **Out Layers**column?

**Answer:** 80

1. What is the **Dest. IP** value for **Layer 3** under the **Out Layers**column?

**Answer:** 192.168.1.254

1. What information is displayed at Layer 2 under the **Out Layers** column?

**Answer: Ethernet II Header 0060.47CA.4DEE >> 0001.96A9.401D**

1. What is the common information listed under the **IP**section of **PDU Details**as compared to the information listed under the **OSI Model**tab?

**Answer:** Source IP and Destination IP

With which layer is it associated?

**Answer**: Layer 3

1. What is the common information listed under the **TCP**section of **PDU Details**,as compared to the information listed under the **OSI Model**tab, and with which layer is it associated?

**Answer:** Source Port and Destination Port, Layer 4

1. What is the **Host** listed under the **HTTP**section of the **PDU Details**? What layer would this information be associated with under the **OSI Model**tab?

**Answer:** [www.osi.local](http://www.osi.local), layer 7

1. Comparing the information displayed in the **In Layers** column with that of the **Out Layers** column, what are the major differences?

**Answer:**

Layer 3 – Source IP in the In Layers is the destination IP in the out layers.

Layer 2 – Mac address in the in Layers is the destination IP in the out layers.

1. Click the **Inbound and Outbound PDU Details** tab. Review the PDU details.

**Answer:**

1. Click the last colored square box under the **Info** column.

Question:

How many tabs are displayed with this event? **Explain**.

They are only 2 tabs because it’s the device receiving the packets

**PART TWO**

1. What additional Event Types are displayed?

**Answer:** DNS, ARP, TCP

1. What information is listed in the **NAME**field: in the DNS QUERY section?

**Answer:** www.osi.local

1. At which device was the PDU captured?

**Answer:** Web Client

1. What is the value listed next to **ADDRESS**: in the DNS ANSWER section of the **Inbound PDU Details**?

**Answer:** 19.168.1.254

1. In the numbered list directly below the **In Layers** and **Out Layers**, what is the information displayed under items 4 and 5?
2. What is the purpose of this event, based on the information provided in the last item in the list (should be item 4)?

**Answer:** To close the connection

**CHALLENGE QUESTIONS**

This simulation provided an example of a web session between a client and a server on a local area network (LAN). The client makes requests to specific services running on the server. The server must be set up to listen on specific ports for a client request. (Hint: Look at Layer 4 in the **OSI Model** tab for port information.)

Based on the information that was inspected during the Packet Tracer capture, what port number is the **Web Server** listening on for the web request?

**Answer:** Port 80

What port is the **Web Server** listening on for a DNS request? Port 53