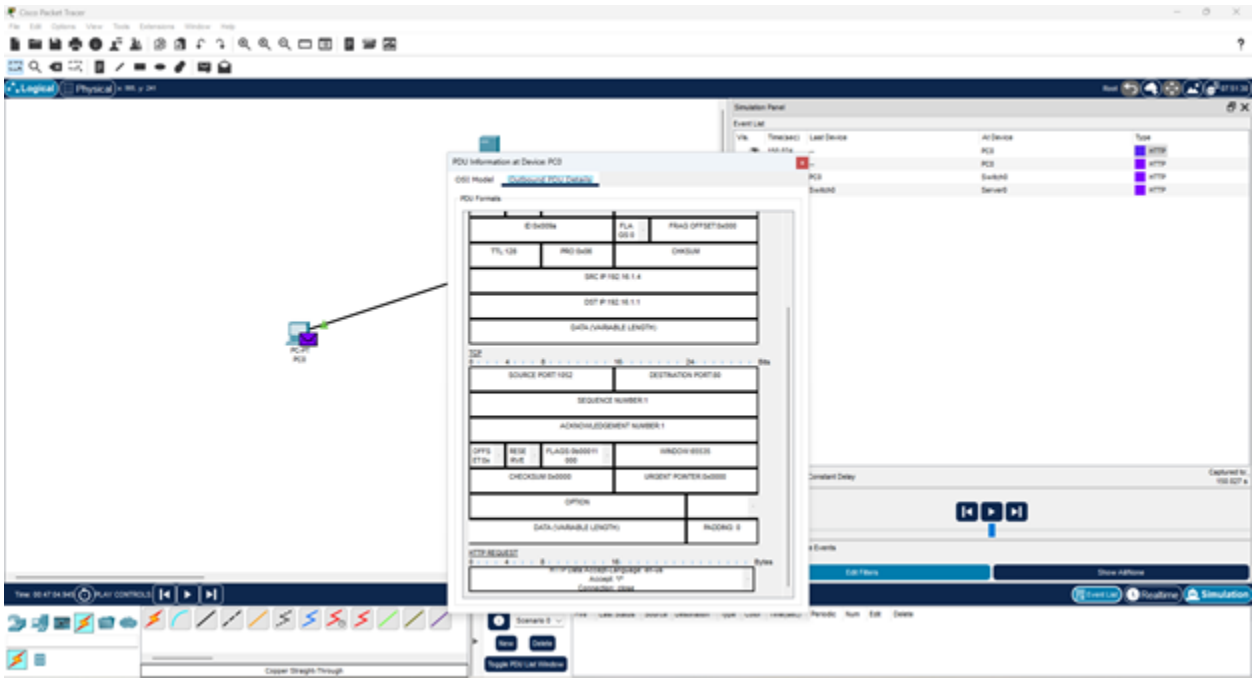
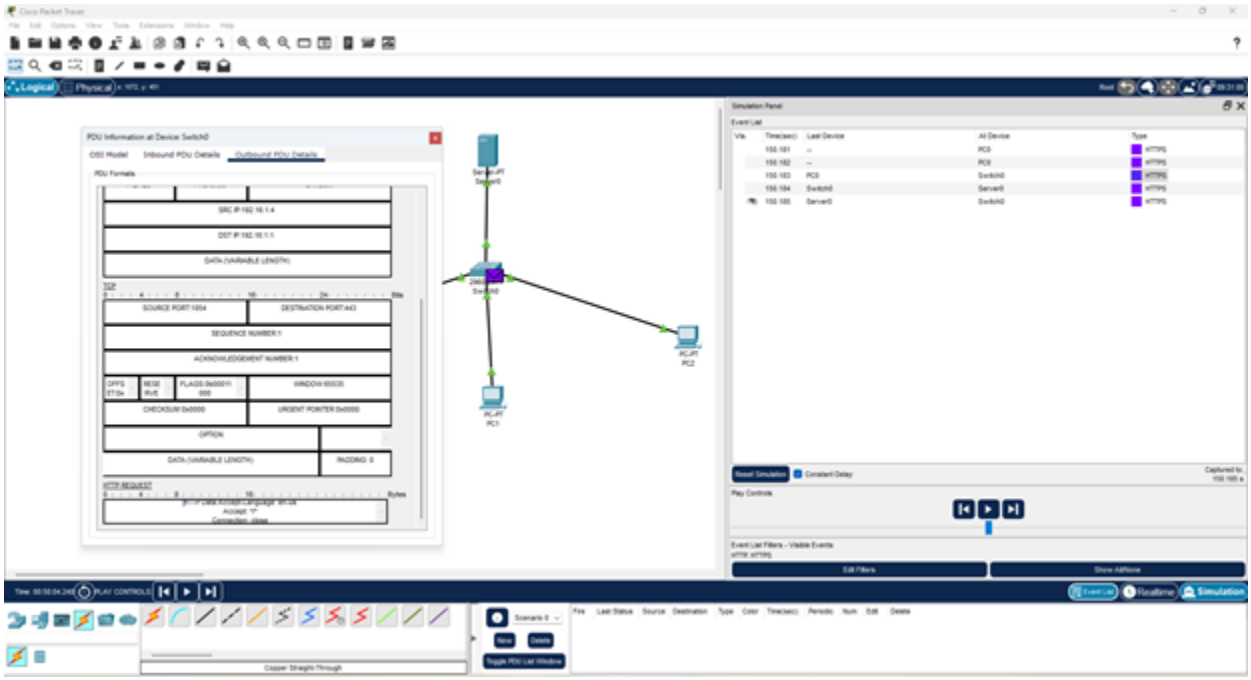
CN Lab 04

Class Activity 1:

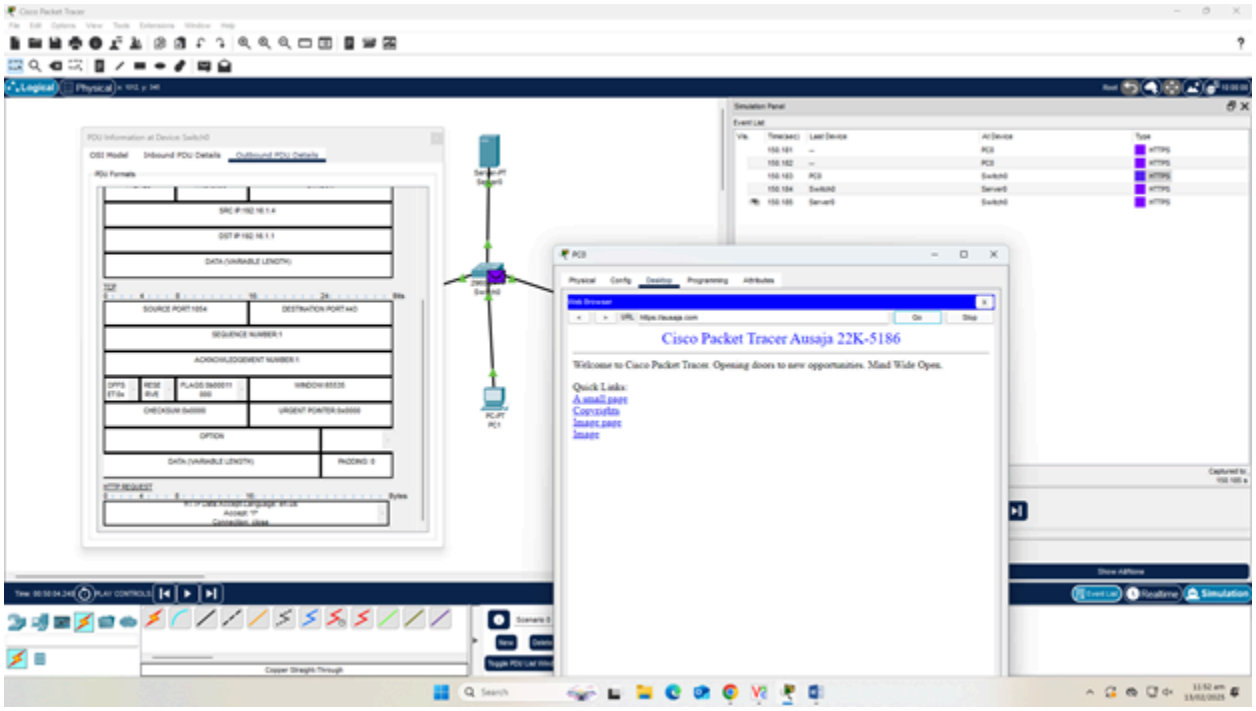
- **For HTTP:**



- **For HTTPS:**

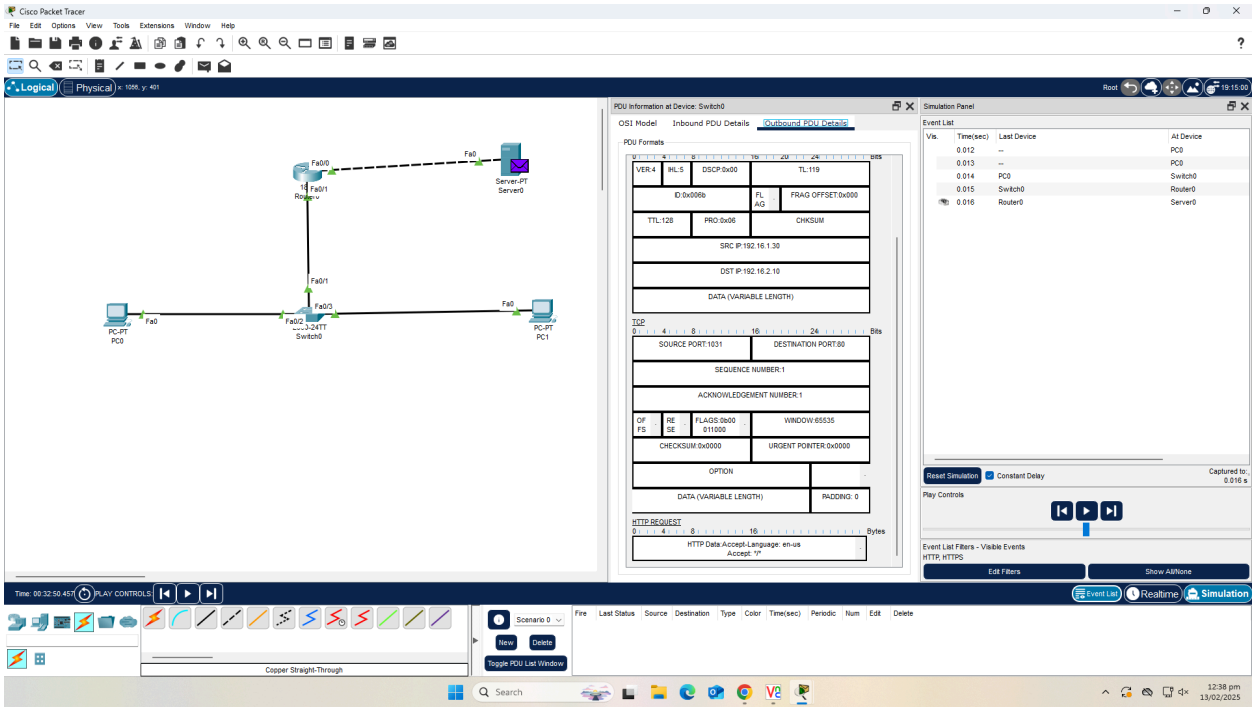


- **For DNS:**

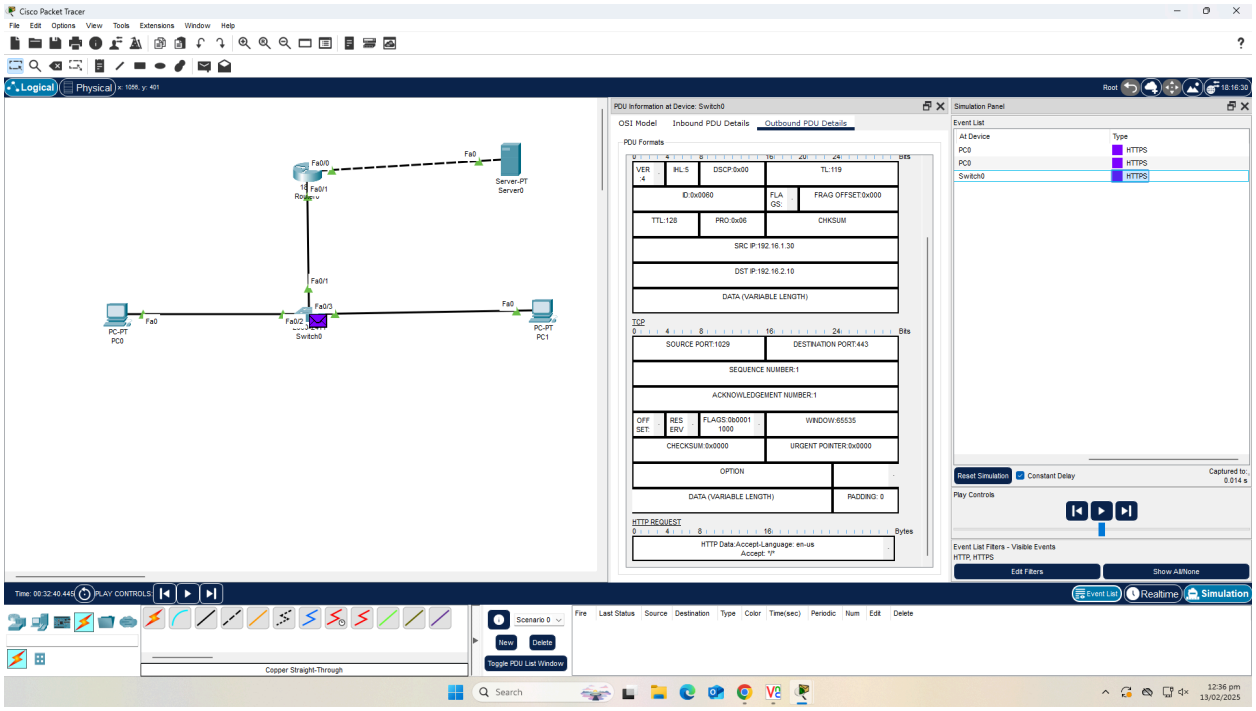


Class Activity 2:

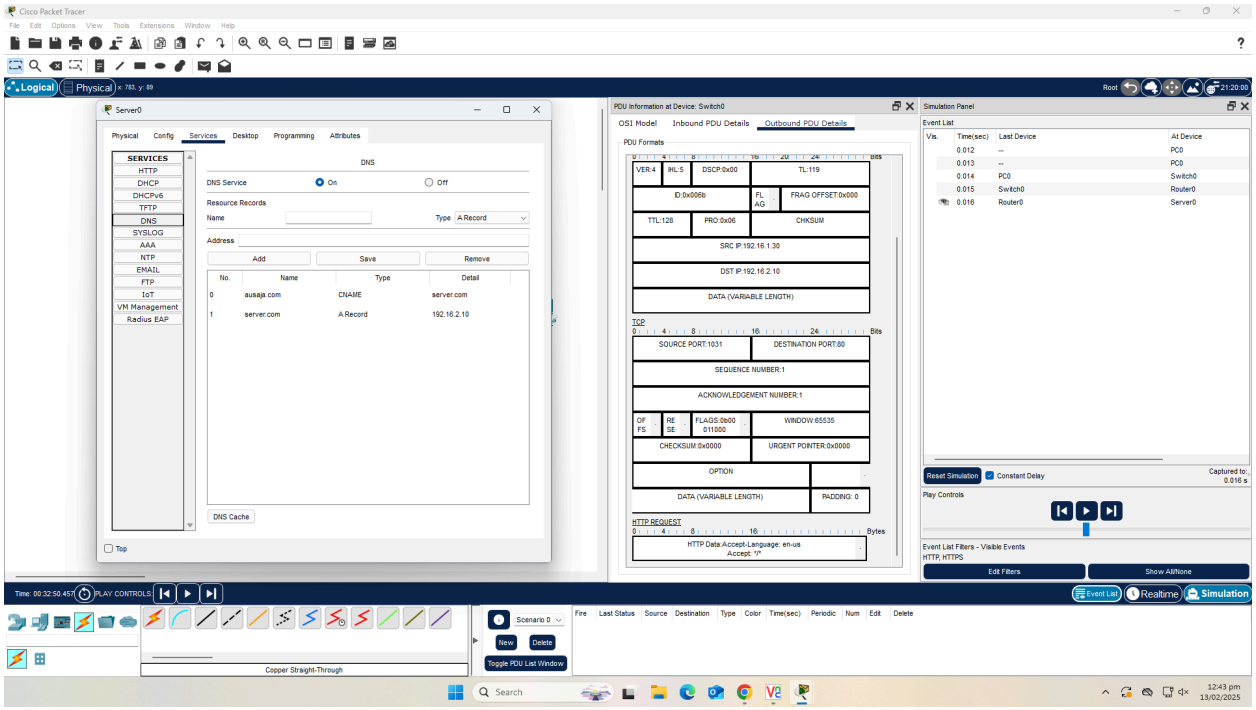
- **For HTTP:**



- **For HTTPS:**

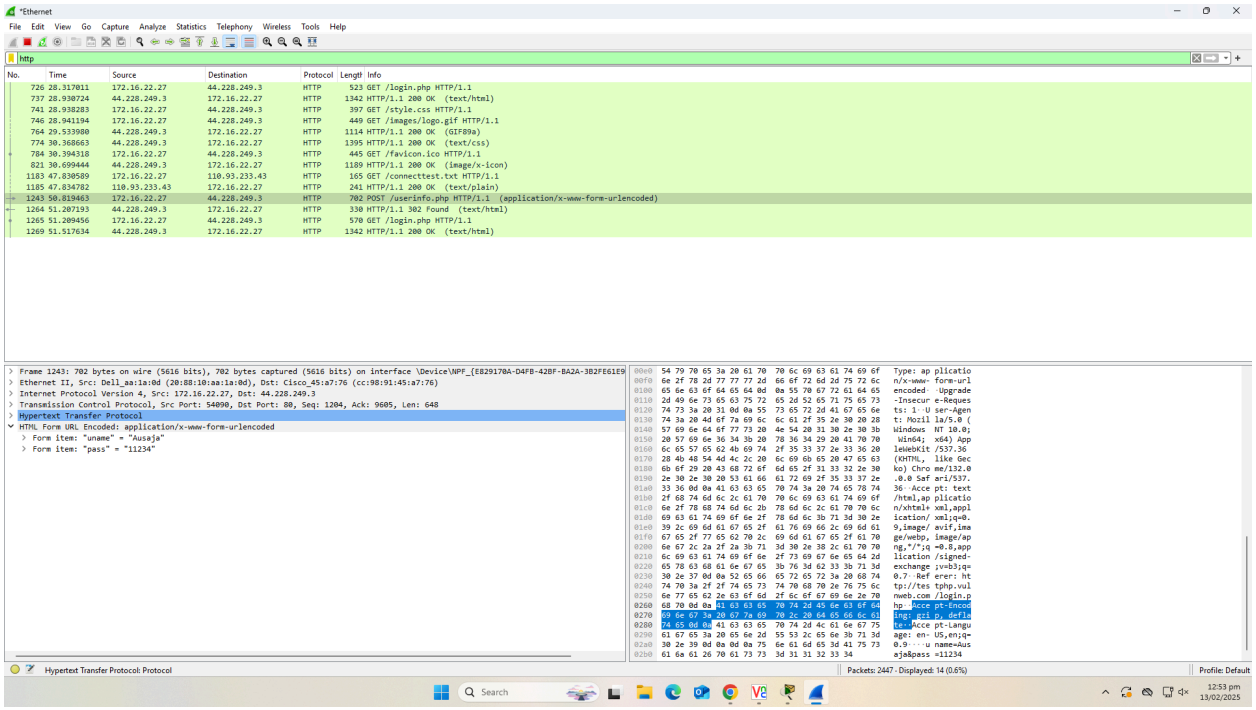


- **For DNS:**

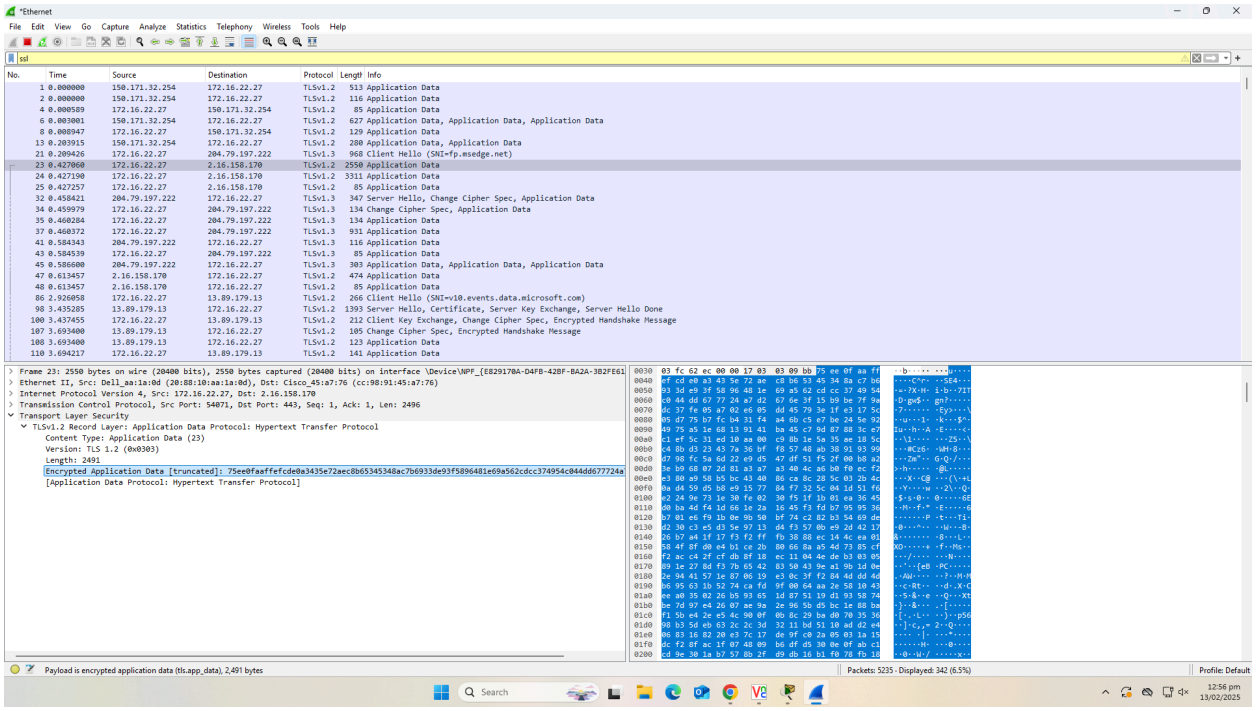


Class Activity:

- **For HTTP:**

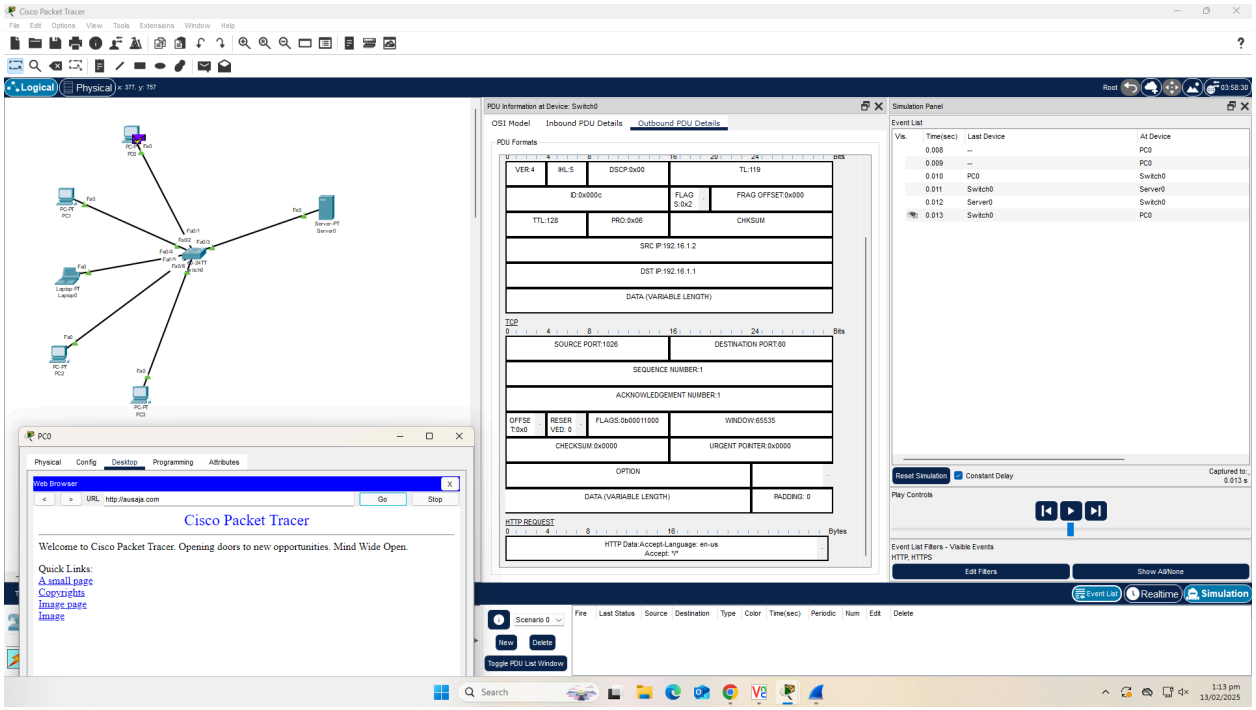


- **For HTTPS (via SSL/TLS):**

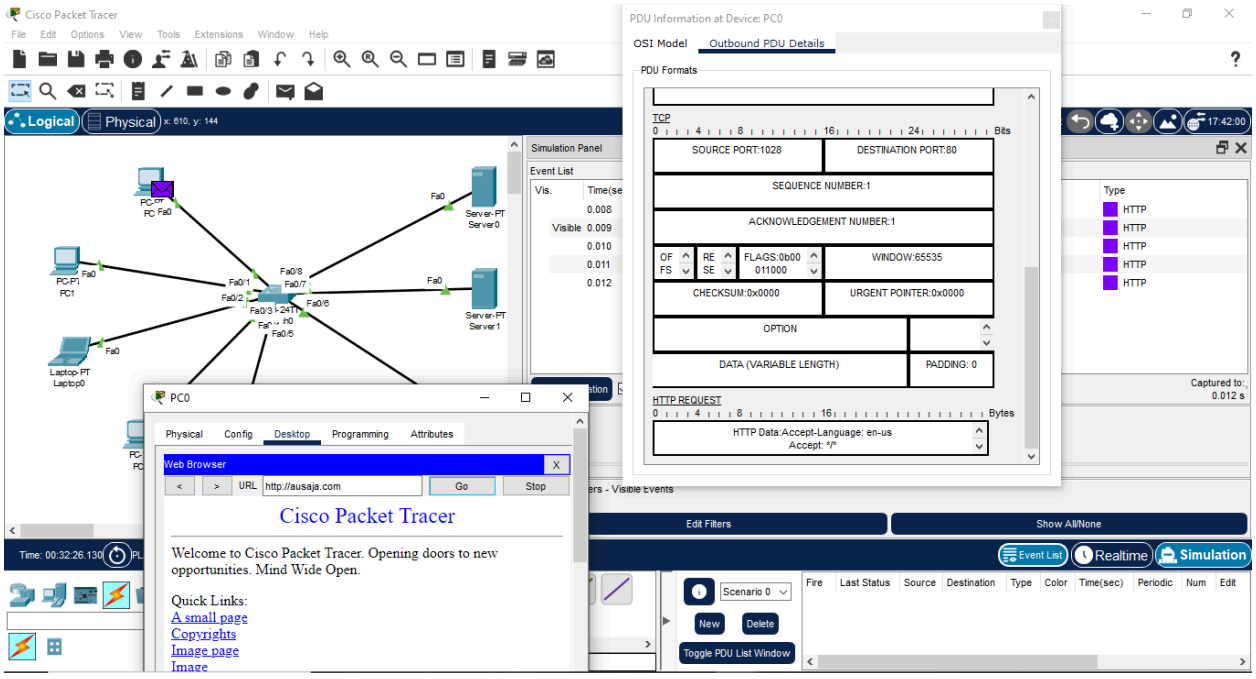


Task 1:

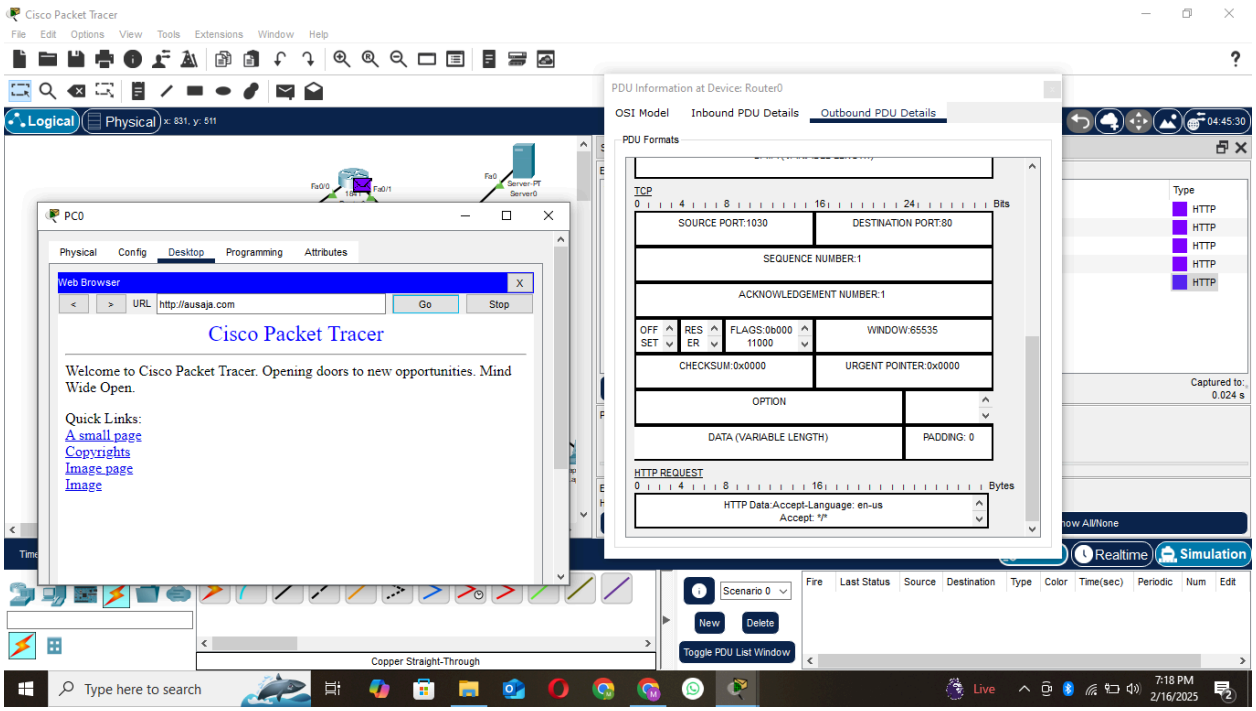
Part 1:

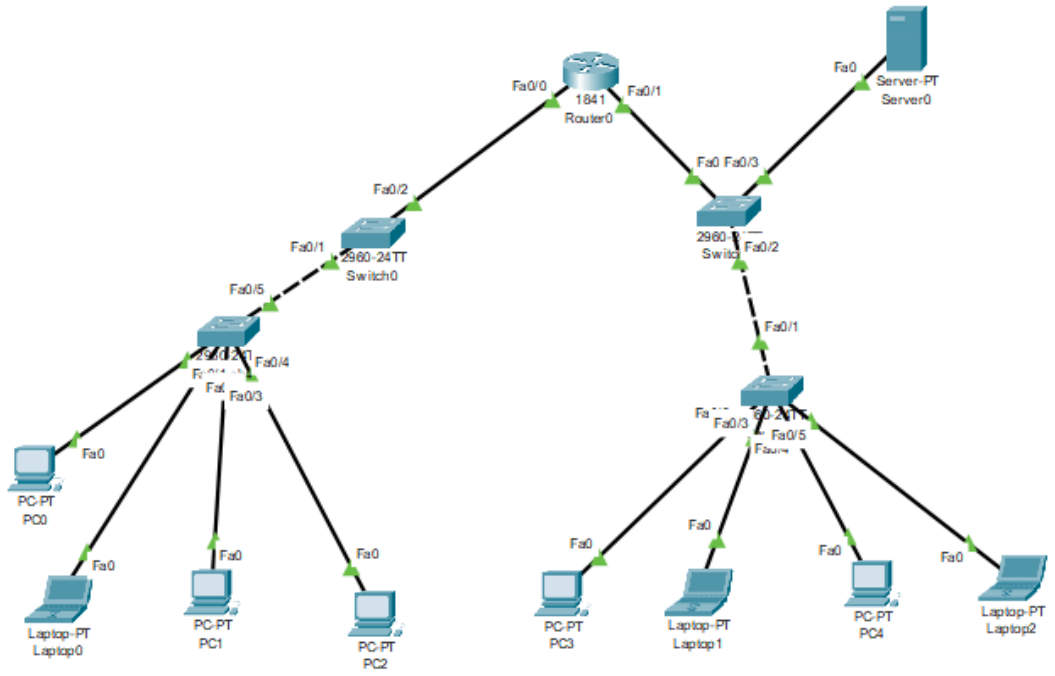


Part 2:



Task 2:





1.

Age Header: describes how long a response has been cached since it was retrieved from the server.

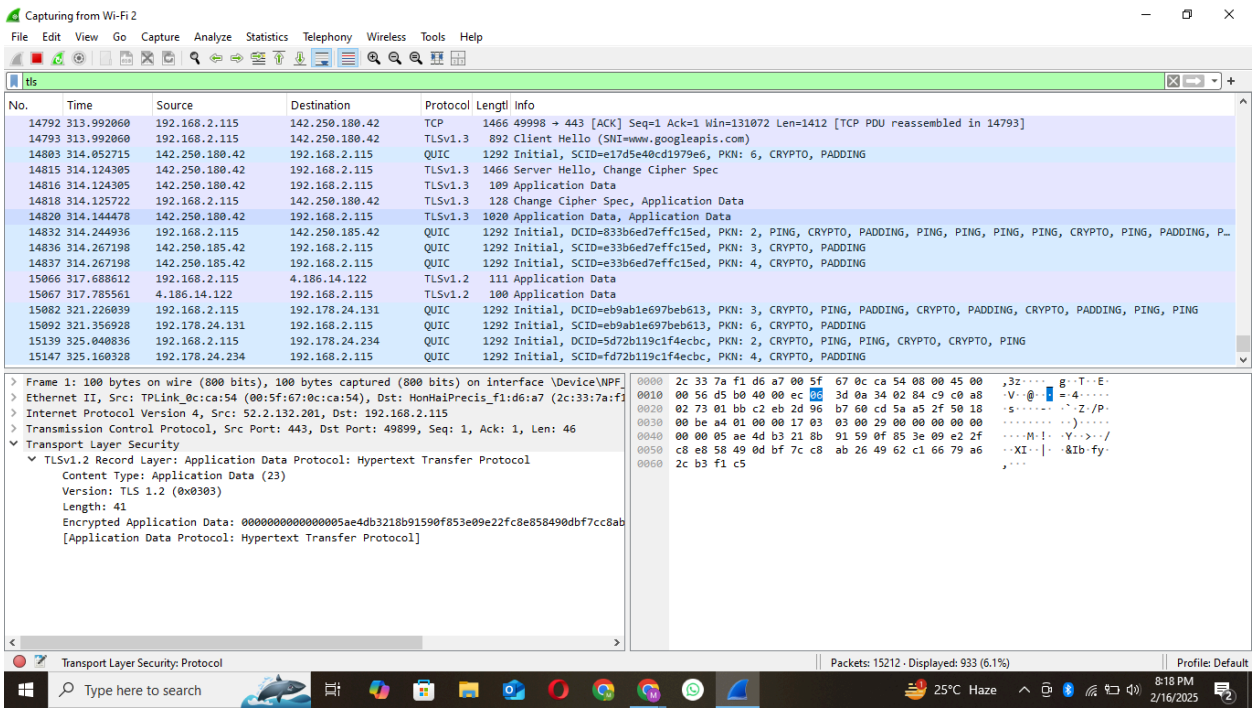
Expires Header: describes when cached information should not be used (i.e. will become old)

2. **Four groupings of HTTP Headers:**
   - ➢ **General Headers:** provides general information about the request.
   - ➢ **Request Headers:** provides additional information about the request.
   - ➢ **Response Headers:** provides metadata about the response, and is usually sent by the server.
   - ➢ **Entity Headers:** provides information about the body of the message.

Wireshark Lab Exercise:

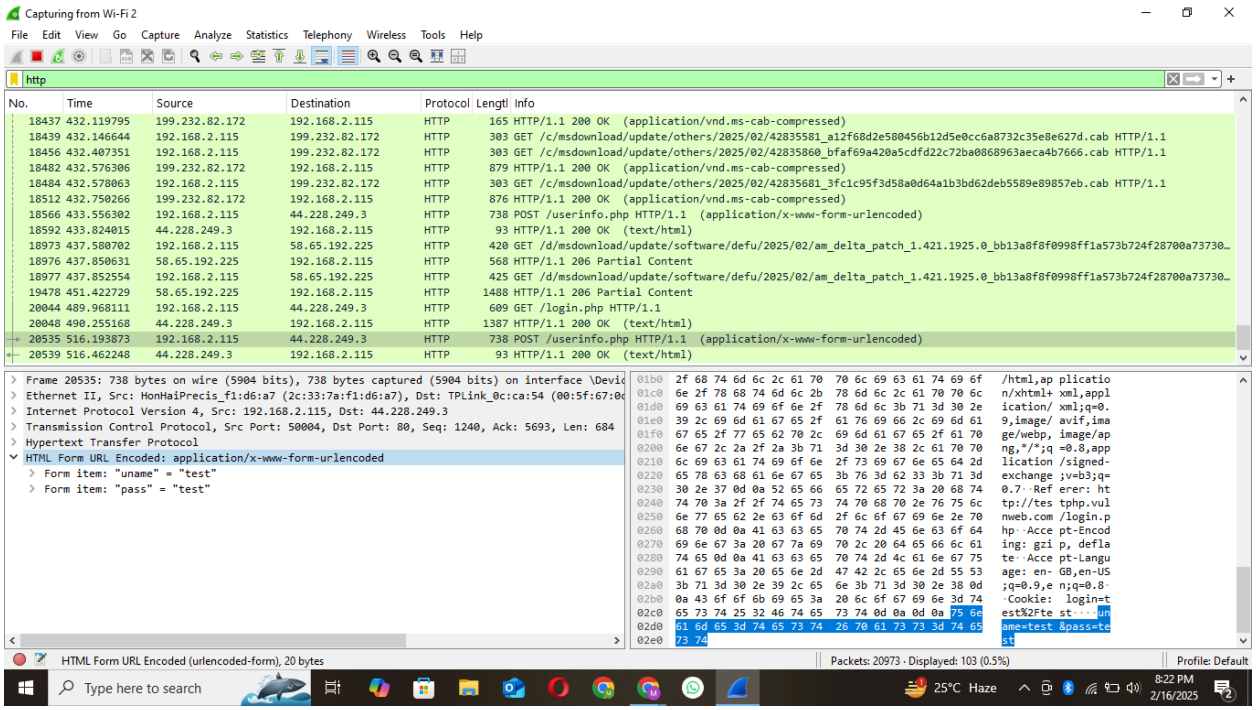
1.

Logging in http://testphp.vulnweb.com/. It encrypts the data, and is secure.



2.

HTTP: The data remains unencrypted, and can be easily read by anyone. Hence, making it less secure.



HTTPS: The data is encrypted, and cannot be read easily. Hence, making it more secure.