Vietnam National University of Ho Chi Minh City
University of Information Technology
Department of Information Security

6

Lab

FOR EDUCATIONAL PURPOSE ONLY

Stream video with VLC

Networking

3/2024

For Internal Circulation only

A. GENERAL

1. Objective

- Stream video between 2 device with VLC

2. Environment

- Students need to prepare a Windows/Linux computer/laptop with an Internet connection.
- Wireshark application

B. HANDS-ON

1. Streaming Video using UDP

- Download and install VLC into student's computer (as stream server) and install VLC on smartphone (as client). https://www.videolan.org/
- Stream a video from server using RTSP protocol: Media -> Stream -> Choose file -> Choose destination as RTSP -> Add -> Next -> Stream.
- Open Wireshark and capture.
- Client gets video from server: Network -> Open Network Stream -> Enter the URL: rtsp://IPofServer:8544/
- After the video is finished, stop Wireshark and save the capture with name MSSV-rtsp.pcap

2. Streaming Video using TCP

- Stream a video from server using HTTP protocol: Media -> Stream -> Choose file -> Choose destination as HTTP -> Add -> Next -> Stream.
- Open wireshark and capture.
- Client gets video from server: Network -> Open Network Stream -> Enter the URL: http://IPofServer:8080/
- After the video is finished, stop wireshark and save the capture with name MSSV-http.pcap

C. REQUIREMENTS & ASSESSMENTS

- Students learn and practice according to instructions, in registered groups.
- Report content includes answers, explanations, code, screenshots, or video demos.
- Report file:
  - File .PDF.

- File name format: [Classcode]-LabX_StudentID1_StudentID2.
- Ví dụ: [CS4283. O21.CTTT.1]-Lab1_1852xxxx_1852yyyy.
- Do not copy.

D. REFERENCES

The lab is based on Wireshark Lab: Getting Started - Supplement to Computer Networking: A Top-Down Approach, 7th ed., J.F Kurose and K.W Ross.

END!