

# Assignment 4

- Please finish the lab according to the attached file , then submit the report of lab 4 based on the lab report template.
- Please submit your source code in zip file. (4.3.zip)

# Assignment 4.1 Session Hijack

- Try to capture session cookie of pms.sustc.edu.cn (yours or your classmates')
- Manipulate your cookie of pms.sustc.edu.cn to hijack this session. (Chrome Extension: edit this cookie)
- Or you can replay the HTTP request using curl. (<https://github.com/jullrich/pcap2curl>)
- Write your report:
  - How did you capture the cookie? What's the content of the cookie?
  - How did you set your cookie into target values? Show the edit page
  - Did you success hijack the session? Describe how did you do it

# Assignment 4.2 DNS Inspection

- Capture DNS query sent from your computer
  - Using capture filter [udp port 53](#)
  - Using display filter (any domain filter is ok)
- Write your report:
  - How did you trigger the DNS query ?
  - Where did the query send? (IP)
  - What did the query said?
  - Does the server support recursive query?
  - What did the response said?

# Assignment 4.3

## Enhanced File Browser (Class A Only)

- Based on Assignment 3.3, implement following features:
  - Range Header support
    - With this feature implemented, user can pause and resume download file from the server.
  - Session Cookie support:
    - Remember last folder user visited, response with 302 Found if user access root directory.

Example:

Request: GET http://localhost:8080

Response: 302 Found, Location: http://localhost:8080/lastdir

Reference: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Location>