

Networks Homework 3 (Due Friday 9/4/2020)

1. If a page stores cookies in your browser, when does your browser send the cookies back to the server?
 - (a) The next time you open the page after closing your browser.
 - (b) When the server sends an HTTP header asking for the cookies.
 - (c) With every request.
 - (b) Never.
2. Which of the following are *common* uses for cookies? Select all that apply.
 - (a) Saving page settings
 - (b) Storing passwords
 - (c) Maintaining sessions
 - (d) Tracking which sites you visit
 - (e) Injecting malware and viruses into a computer
3. For which of the protocols below are user names and passwords clearly visible to anyone intercepting network traffic? Choose all that apply.
 - (a) FTP (b) HTTP (c) HTTPs (d) SFTP (e) Telnet (f) SSH
4. Telnet and SSH are used primarily for what purpose?
5. True or false.
 - (a) If a client uses an HTTP proxy server to access a web page, the proxy server's IP will show up in the web server's logs and not the client's.
 - (b) Reverse proxies (server-side) can be used to keep web servers from being overwhelmed with traffic.
 - (c) Proxies are often used to prevent cookies from being stored in your browser.
 - (d) When you load a web page in a browser, sometimes it loads a copy of the page it save in memory instead of downloading a fresh copy from the server.
 - (e) TLS can be used to tell if an encrypted message has been altered in transit.
 - (f) Certificates are the most dependable part of TLS.
 - (g) The names TLS and SSL are often used interchangeably.
6. The page at http://45.79.189.210/homework_cookie.php sets a cookie. Use your web browser to show the cookie name and value. Include a screenshot.
7. The page http://45.79.189.210/hw3_form.php expects data to be sent in a POST request. But there is no way to enter that data in using an ordinary web browser. Use either a programming language, curl, or a raw HTTP request to send the data to it. It expects a field called *homework* to be set to 3 and a field called *answer* to be set to *computer*. Include a screenshot showing what you did and the result. If you do it right, you should get a success message.
8. The form at http://www.climate.psu.edu/data/city_information/index.php has a couple of places where you can select a city. Go to the page and do so. It will generate a post request. Use your browser's developer tools to find out what POST data is generated by the request. Give a screenshot showing the two fields and their values.