Unit 2.3.4

Goals:

- Collaborate with a cybersecurity team.
- Participate in a "training exercise" to recognize:
- An XSS Stored attack
- A Command Execution attack
- Perform a penetration test on a website and document it.
- Reflect on your cyber team experience.
- #2 Notebook: Work with your team to brainstorm at least three positive collaboration practices that you consider important team norms. Be open minded to everyone's ideas. Communication is key. Have a growth mindset.

#7 - Screenshot:

```
System Nathan Kantorov

Cybersecurity Training Site v1.8:: Source - Internet Explorer — 
http://172.30.0.13/CTS/vulnerabilities/view_source_all.php?id=xss_s

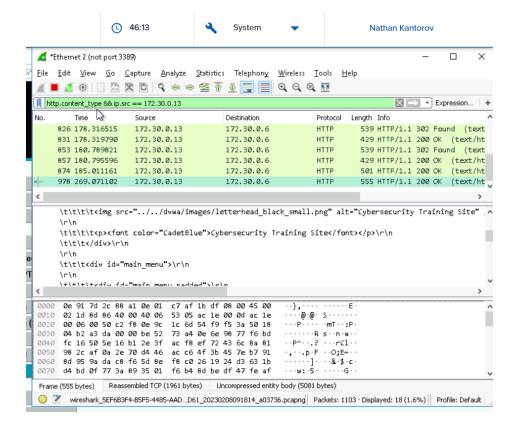
If (lsset(\(\sigma_POSI['DtnSlgn'])))

$message = trim(\(\sigma_POSI['mtxMessage']);$
$name = trim(\(\sigma_POSI['txtName']);$

// Sanitize message input
$message = stripslashes(\(\sigma_message);$
$message = mysql_real_escape_string(\(\sigma_message);$

// Sanitize name input
$name = mysql_real_escape_string(\(\sigma_name);$)
```

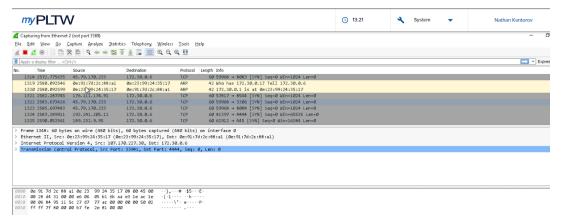
#8 - Screenshot:



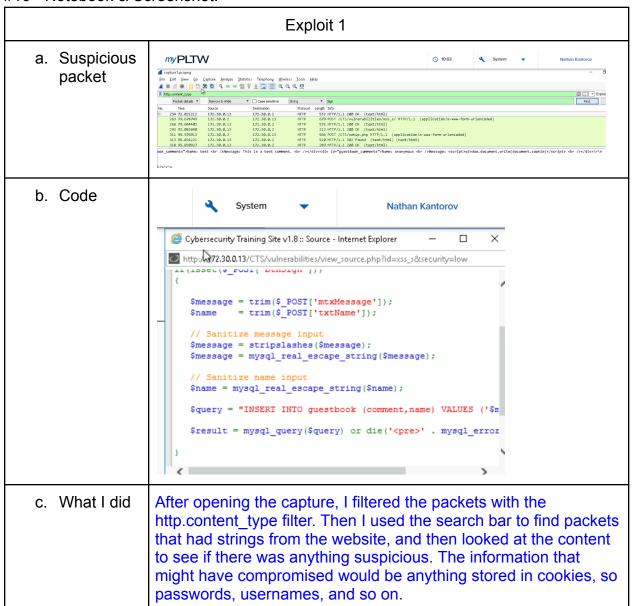
#10 - Screenshot:

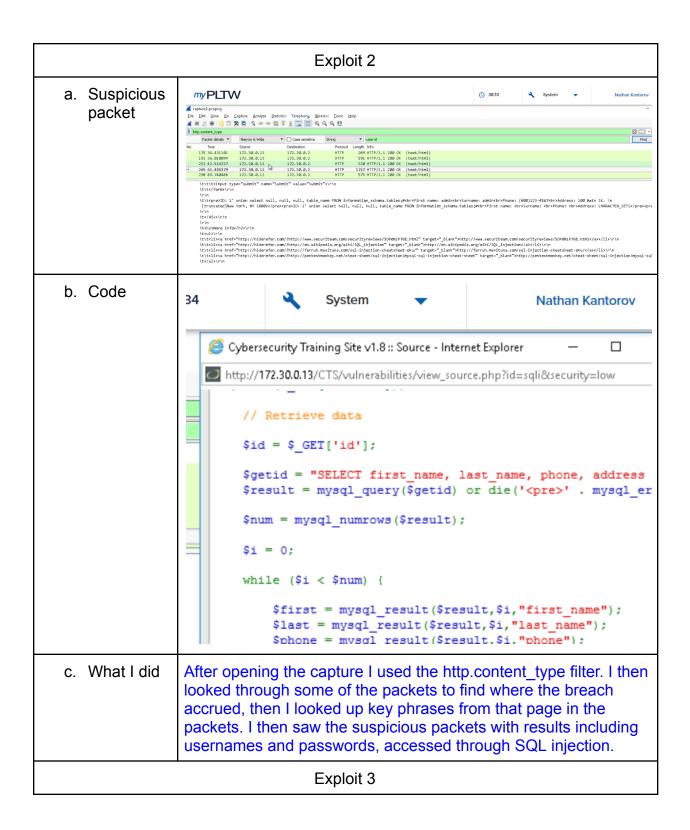
```
(\) 18:53
                                 System
                                                                       Nathan Kantorov
       Cybersecurity Training Site v1.8 :: Sourc Internet Explorer
                                                                                      X
http://172.30.0.13/CTS/vulnerabilities/view_source.php?id=exec&security=low
       if( isset( $_POST[ 'submit' ] ) ) {
 uni
             $target = $_REQUEST[ 'ip' ];
 uni
  uni
            // Determine OS and execute the ping command.
if (stristr(php_uname('s'), 'Windows NT')) {
 uni
  uni
  uni
                  $cmd = shell_exec( 'ping ' . $target );
echo ''.$cmd.'';
  uni
                  $cmd = shell_exec( 'ping -c 3 ' . $target );
echo ''.$cmd.'';
```

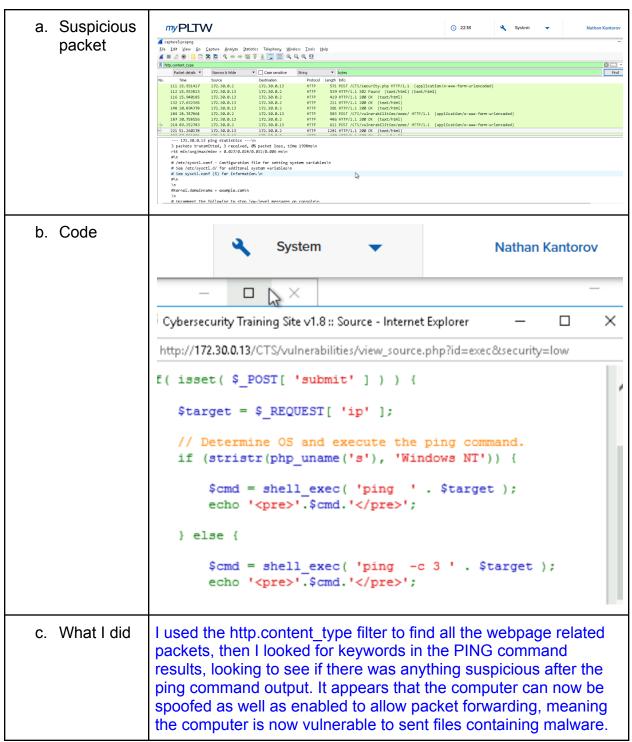
#11 - Screenshot:



#16 - Notebook & Screenshot:







#17 - Notebook: Why were some tasks not performed? Some tasks from the Cybersecurity lifecycle were not performed because they did not apply to the current situation. For example, there was now way that we could recover anything, so that was not possible to do. We could, however, identify what happened and why, then prevent that from happening again in the future.

#18 - Notebook: Describe what each team member contributed. We helped each other look through the packets, as there were times where it was hard to tell whether or not we had the correct packet.

Describe one moment during teamwork when your team: Worked well together. Could improve on collaboration. We had good communication, however we could have probably worked a bit on making sure everyone was on the same page.

Conclusion

- How do you think the people responsible for the web server, web pages, and scripts could have prevented these vulnerabilities? The people responsible for the web server, web pages, and scripts could have prevented these vulnerabilities by making sure that all the inputs are sanitized completely and correctly before being used to find any information/data.
- 2. Why is this series of pen testing an ethical use of hacking skills?

 This is an ethical use of hacking skills because it helps build knowledge on how to better improve site security, with everyone having full knowledge of what is going on and what can and cannot be done.