Assignment 3.1.2

Course name: CCF Injections

Developers:

- Anders Carlsson
- Oleksii Baranovskyi

Performer:

• FB-01 Sakhnii Nazar

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Material and technical equipment of the workplace

- https://wiki.owasp.org/index.php/Code Injection
- https://owasp.org/www-project-web-security-testing-guide/stable/4-Web_Application_Security_Testing/07-Input_Validation_Testing/11-Testing_for_Code_Injection.html
- http://projects.webappsec.org/w/page/13246978/Threat%20Classification

Task 1. Code injection detection and analysis

Purpose: understand what is a code injection

After the work, the student must

- know: what is code injection;
- be able to: recognize and analyze code injection vulnerabilities for the current site.

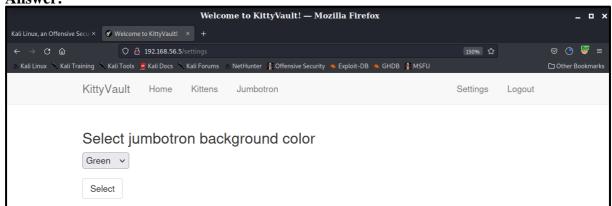
Tasks:

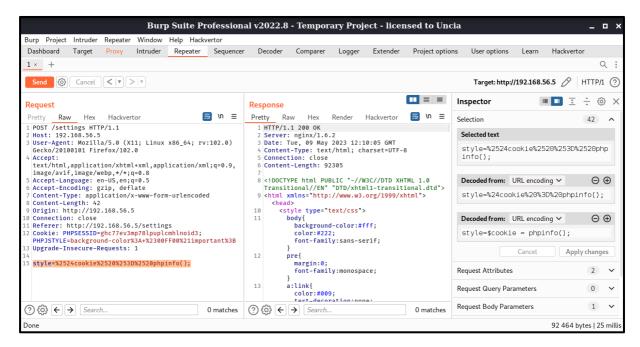
 analyze provided web application on virtual machine 192.168.56.5 and check its parameters.

Solution:

Open each site in browser. Analyze HTTP-parameters for GET/POST requests.

For provided site, you need to answer: is code injection present? Prove it (screenshot).

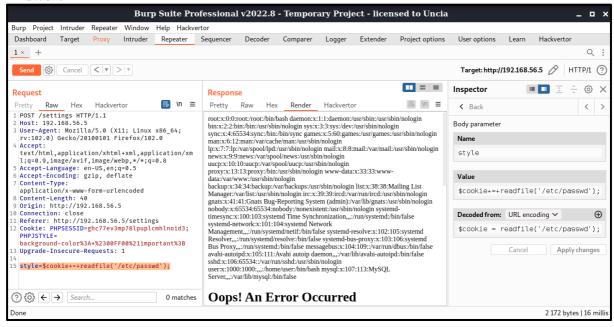






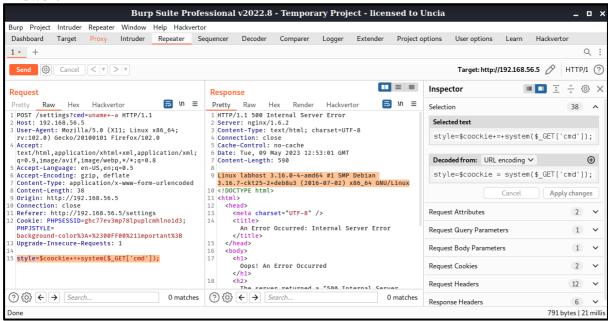
Obtain /etc/passwd file.

Answer:



TASK 3

Is it possible to execute web-shell? Prove it (screenshot).





Task 2. Command injection detection and analysis

Purpose: understand what command injection is

After the work, the student must

- know: what is command injection;
- be able to: recognize and analyze command injection vulnerabilities for the current site.

Tasks:

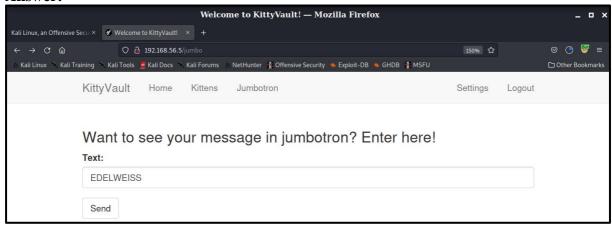
 analyze provided web application on virtual machine 192.168.56.5 and check its parameters.

Solution:

Open each site in browser. Analyze HTTP-parameters for GET/POST requests.

TASK 1

For provided site, you need to answer: is command injection present? Prove it (screenshot).

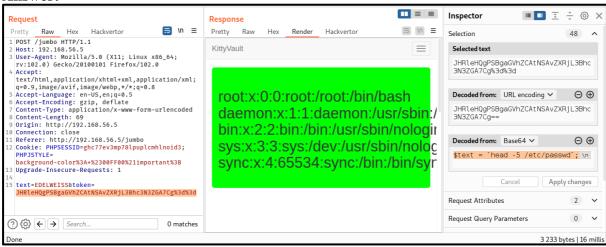






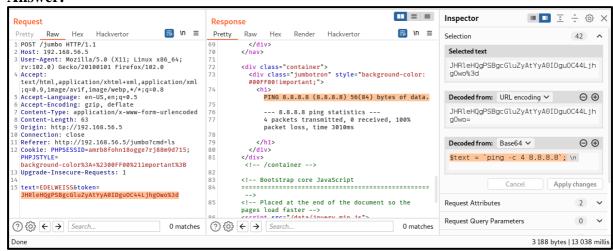
Obtain /etc/passwd file.

Answer:

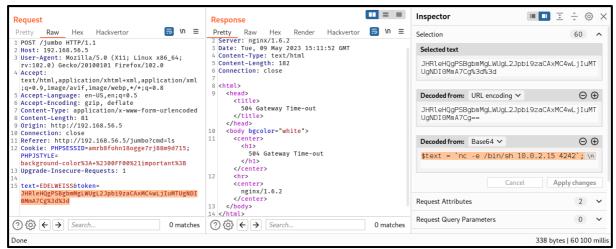


TASK 3

Is it possible to execute remote shell? Prove it (screenshot).







Task 3. LFI/RFI detection and analysis

Purpose: understand what LFI/RFI is

After the work, the student must

- know: what is LFI/RFI;
- be able to: recognize and analyze LFI/RFI vulnerabilities for the current site.

Tasks:

 analyze provided web application on virtual machine 192.168.56.5 and check its parameters.

Solution:

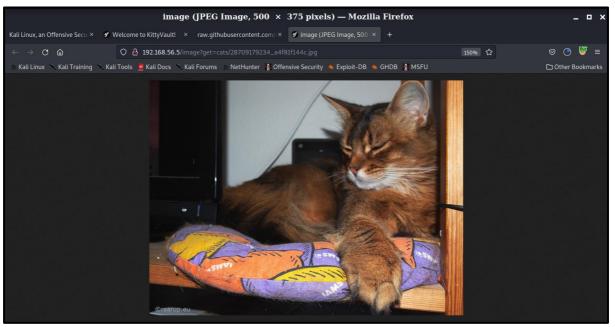
Open each site in browser. Analyze HTTP-parameters for GET/POST requests.

TASK 1

For provided site, you need to answer: is LFI/RFI present? Prove it (screenshot).

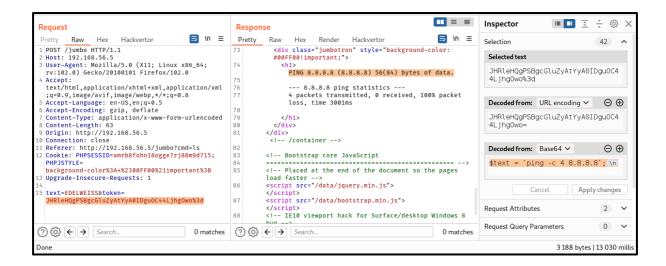






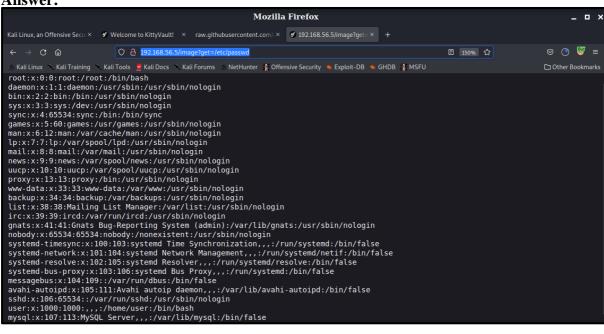






Obtain /etc/passwd file.

Answer:



TASK 3

Is it possible to execute web-shell with LFI/RFI? Prove it (screenshot).

Answer:

Отже, у зв'язку з тим, що сервер не має можливості під'єднатися до глобальної мережі, то завантажити **web-shell** буде не можливо. А також, що цілком логічно, даний сервер не має у своїй файловій системі не має в наявності жодного **web-shell**, який можна було б запустити на виконання для власних потреб.

Звідси робимо висновок, що LFI/RFI вразливість не дозволяє тут розгорнути web-shell.