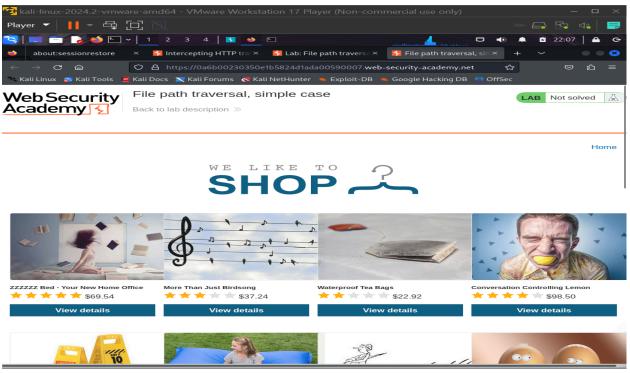
DIRECTORY TRAVERSAL

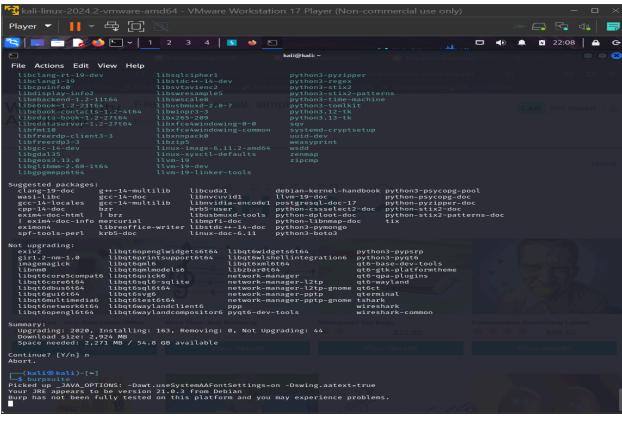
Tools: KALI LINUX

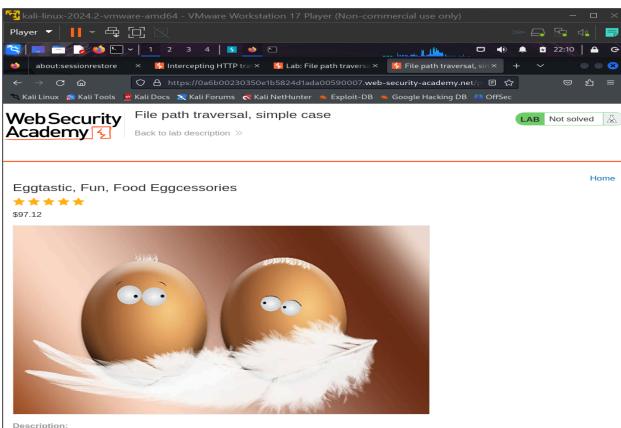
Site: https://portswigger.net/web-security

Directory traversal, also known as **path traversal**, is a type of vulnerability or exploit in software that allows an attacker to access directories and files that are outside the intended scope of access. This is achieved by manipulating file paths, often through input fields, to navigate the file system beyond the application's directory.

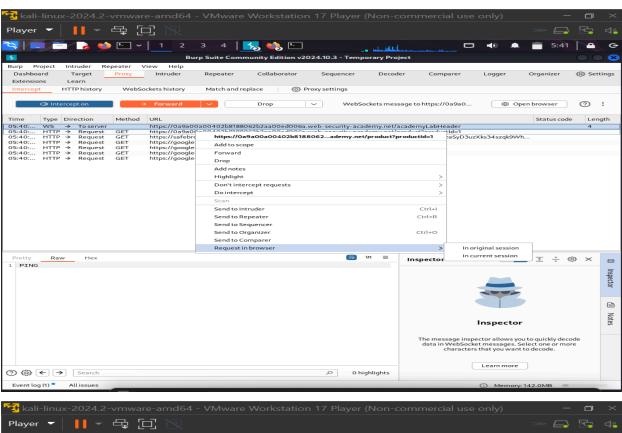
Input from the task:

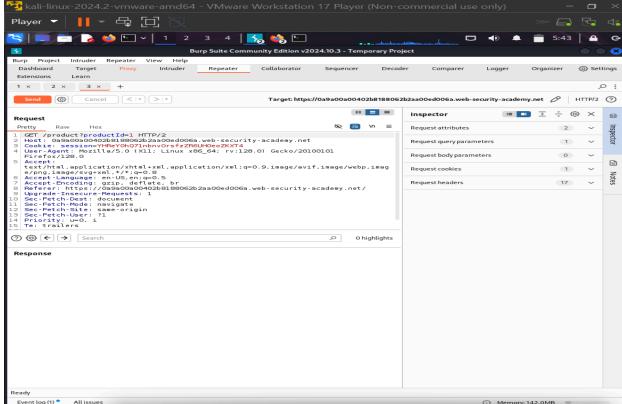


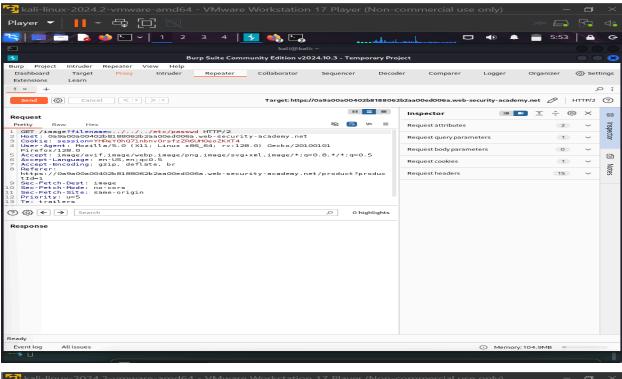


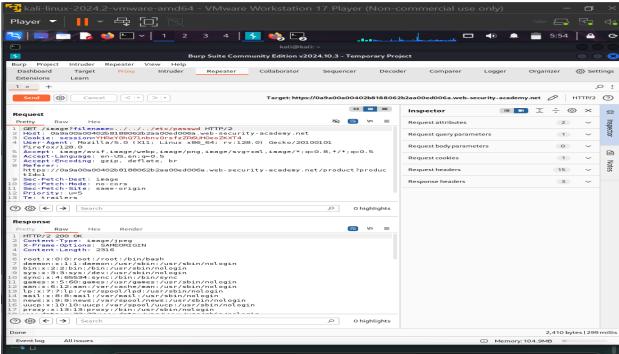


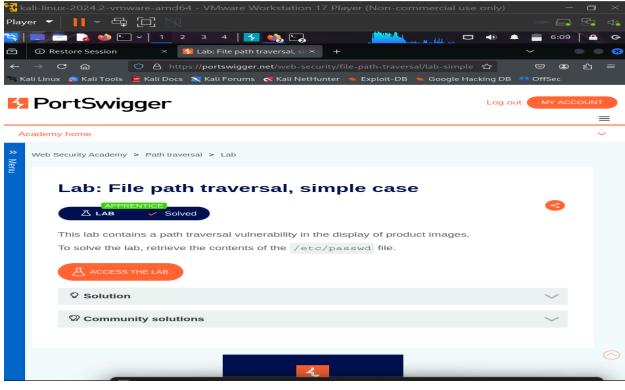
Mealtimes never need be boring again. Whether you use an egg cup or not there's no need to let standards slip. For a modest sum, you can

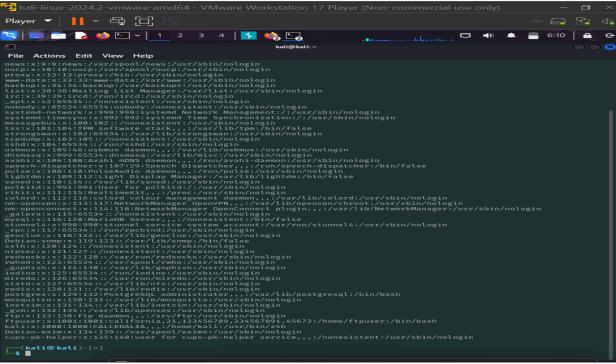












Here we would be using burp suite to perform a directory traversal on a website. After signing up on the PORT SWIGGER WEB ACADEMY because this site provides some vulnerable labs we can use to perform directory traversal.

Lab Objective: Understand and test for directory traversal vulnerabilities, which occur when an attacker manipulates file paths to access files and directories outside the intended scope.

Lab Environment:

- Tools Needed:
 - Burp Suite (pre-installed on Kali Linux; update if necessary using sudo apt upgrade burpsuite)
 - Web browser
- Target Platform:
 - PortSwigger Web Security Academy's lab on file path traversal:
 - URL: <u>https://portswigger.net/web-security/file-path-traversal/lab-</u> simple
 - *Note:* Free registration is required to access the lab.

1. Setup:

- o Launch Burp Suite and ensure intercept mode is off.
- Log in to the PortSwigger Web Security Academy and start the "File path traversal, simple case" lab.

2. Identifying the Vulnerability:

- o In the provided fake shop, select a product to view its details.
- With Burp Suite's intercept enabled, capture the HTTP request made when the product image loads.

Observe the request line fetching the image, typically resembling: GET /image?filename=48.jpg HTTP/1.1

3. Exploiting the Vulnerability:

 Send the captured request to Burp Suite's Repeater for modification.

Modify the filename parameter to traverse directories and access the /etc/passwd file:

```
GET /image?filename=../../etc/passwd HTTP/1.1
```

 This modification uses . . / sequences to navigate up the directory structure to the root, then accesses the passwd file.

4. Executing the Attack:

- In the Repeater tab, send the modified request.
- Review the server's response to confirm the contents of the /etc/passwd file are returned, indicating a successful directory traversal attack.

Conclusion: we have learned how to detect and exploit directory traversal vulnerabilities, allowing unauthorized access to sensitive files on a web server. Understanding this attack vector is crucial for securing web applications against such threats.