

## 10. Session Hijacking and Fixation

Objective: To learn how session hijacking and fixation attacks work

Tools: DVWA, Burp Suite, Browser developer tools

Session hijacking is a cyber attack where an attacker gains control of a user's online activity by stealing or manipulating their session token:

- **How it works**

When a user logs into a website, the server assigns a session token to the user's browser. The attacker then intercepts the session token, which can be done by eavesdropping on network traffic or exploiting vulnerabilities.

- **Impact**

With the stolen session token, the attacker can impersonate the user and access their account, perform unauthorized actions, or steal sensitive information.

- **Prevention**

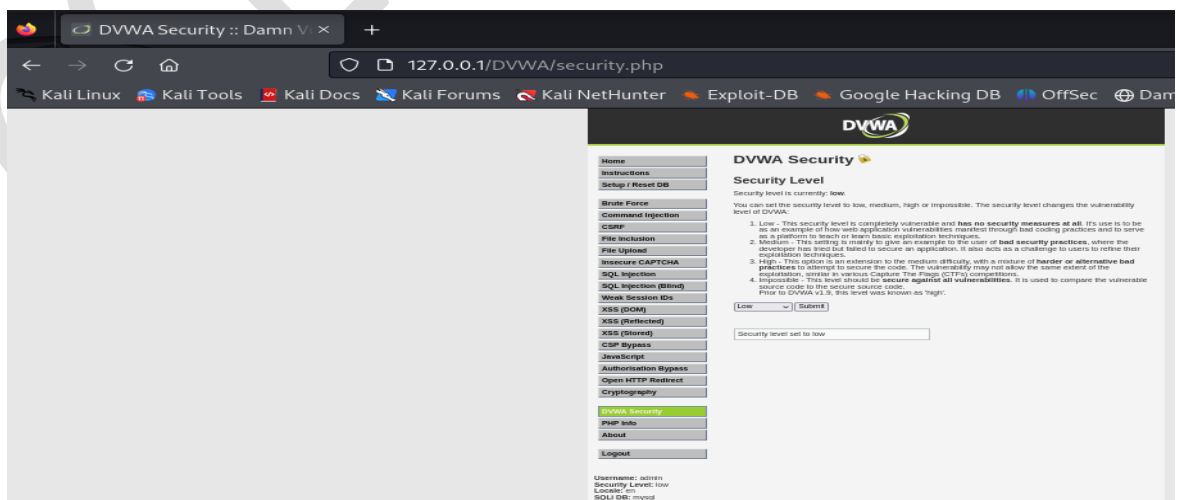
Website owners can prevent session hijacking by using HTTPS and strengthening session management. Users can prevent session hijacking by logging out of websites, enabling multi-factor authentication, and being cautious of links they click.

Session hijacking is a significant and growing threat to web application security. It can lead to privacy breaches, unauthorized transactions, and other security concerns.

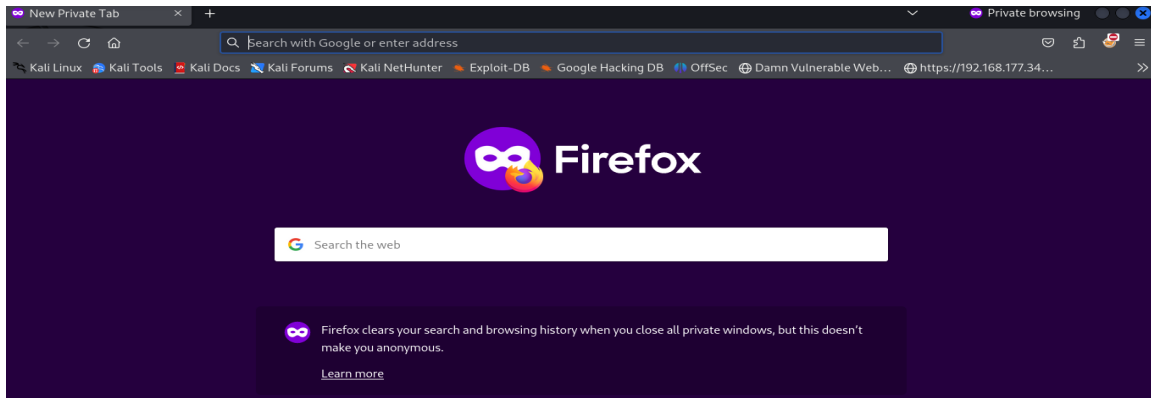
Steps:

```
root@kali:~# systemctl start mysql
root@kali:~# systemctl start apache2.service
```

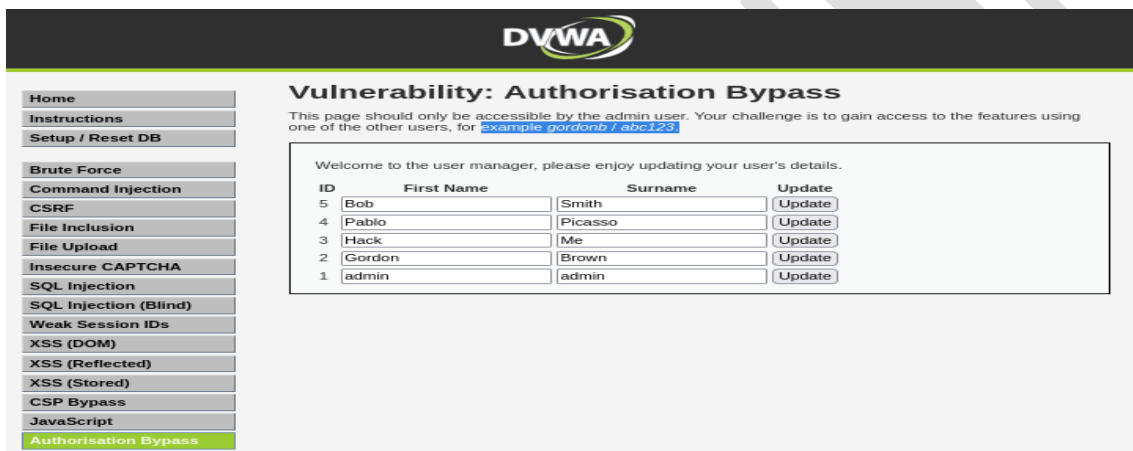
Step1: Open DVWA and set the security level as LOW



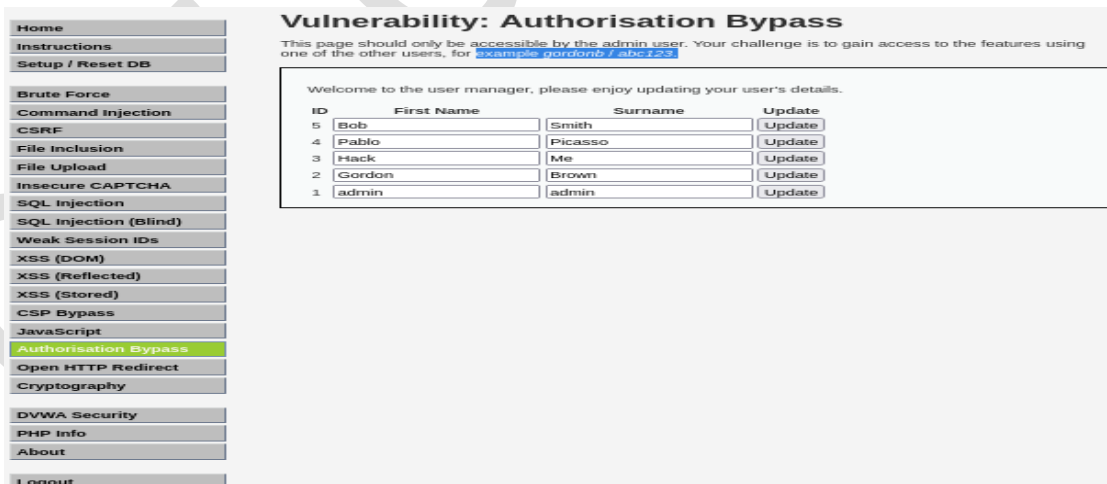
Open new private window



Step2: login to DVWA with username: **gordonb** and password: **abc123** in the private window



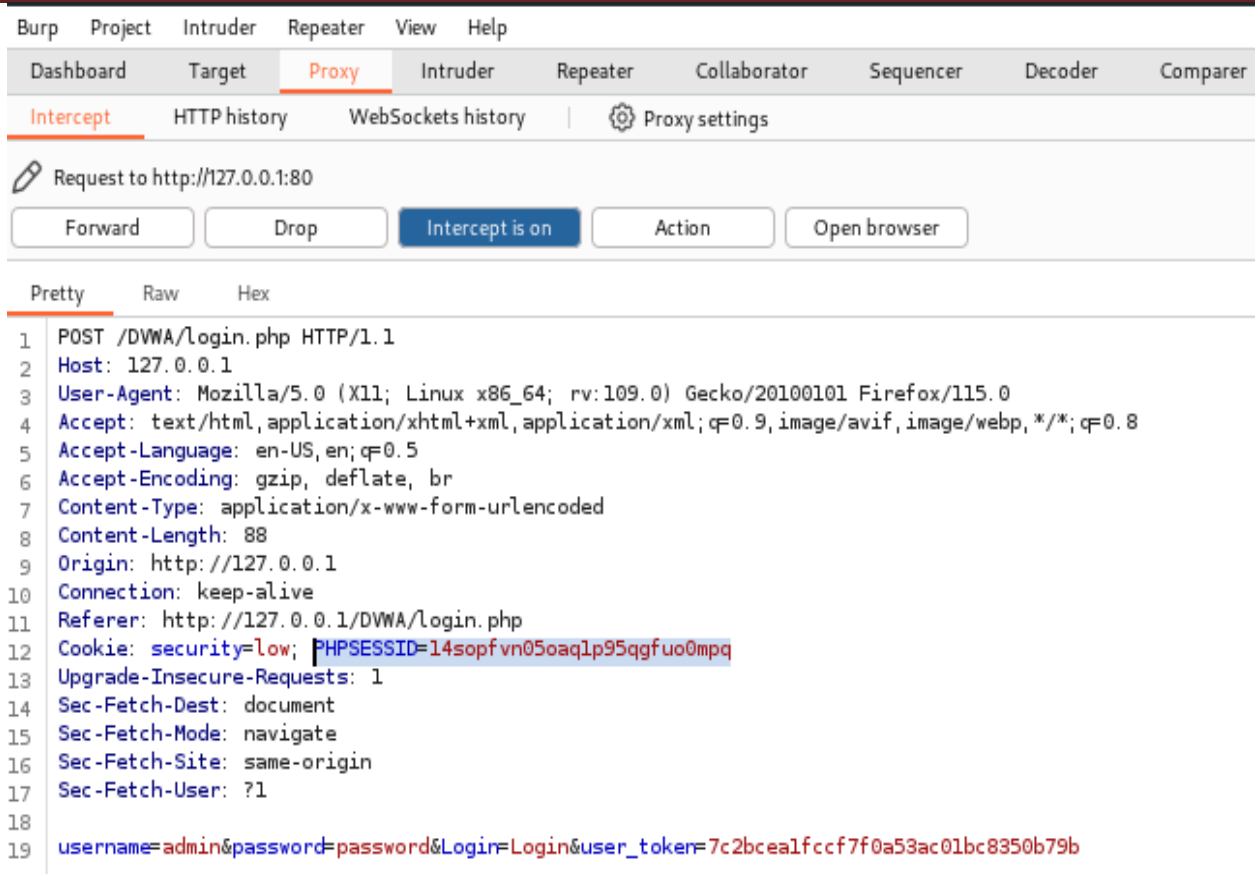
Logout from the normal window



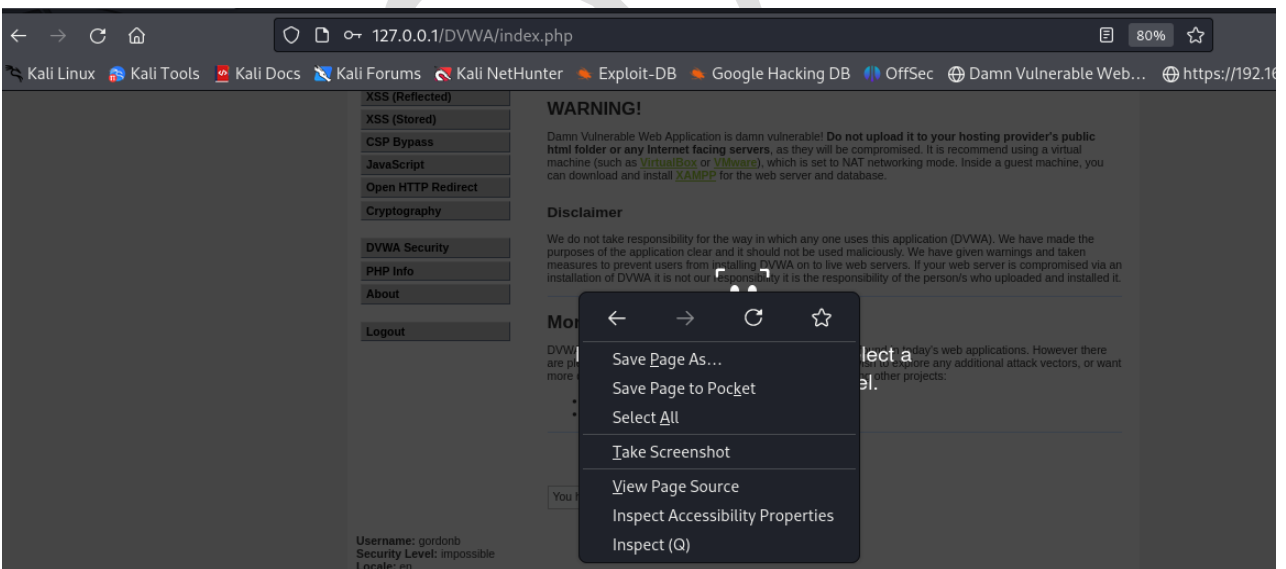
Step3: Start the burp suit and capture the target, login in the normal window and enable the foxyproxy

Now we got the **PHP SESSID** and

## Advanced Cyber Security

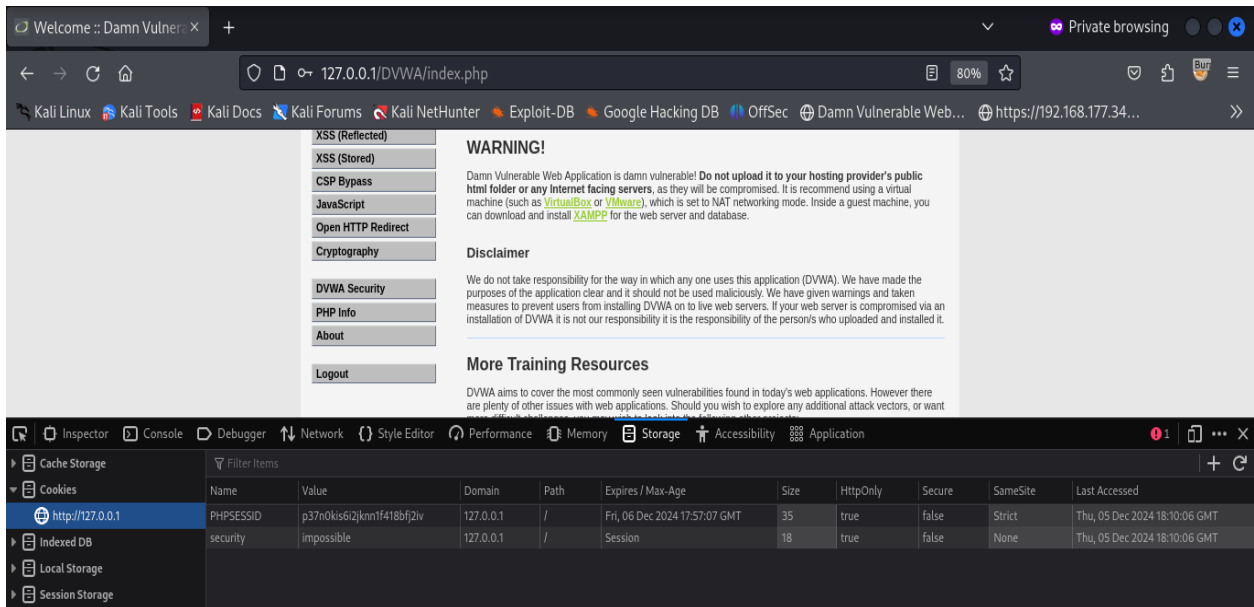


Step4: then go to private window and inspect the fetch by mouse right

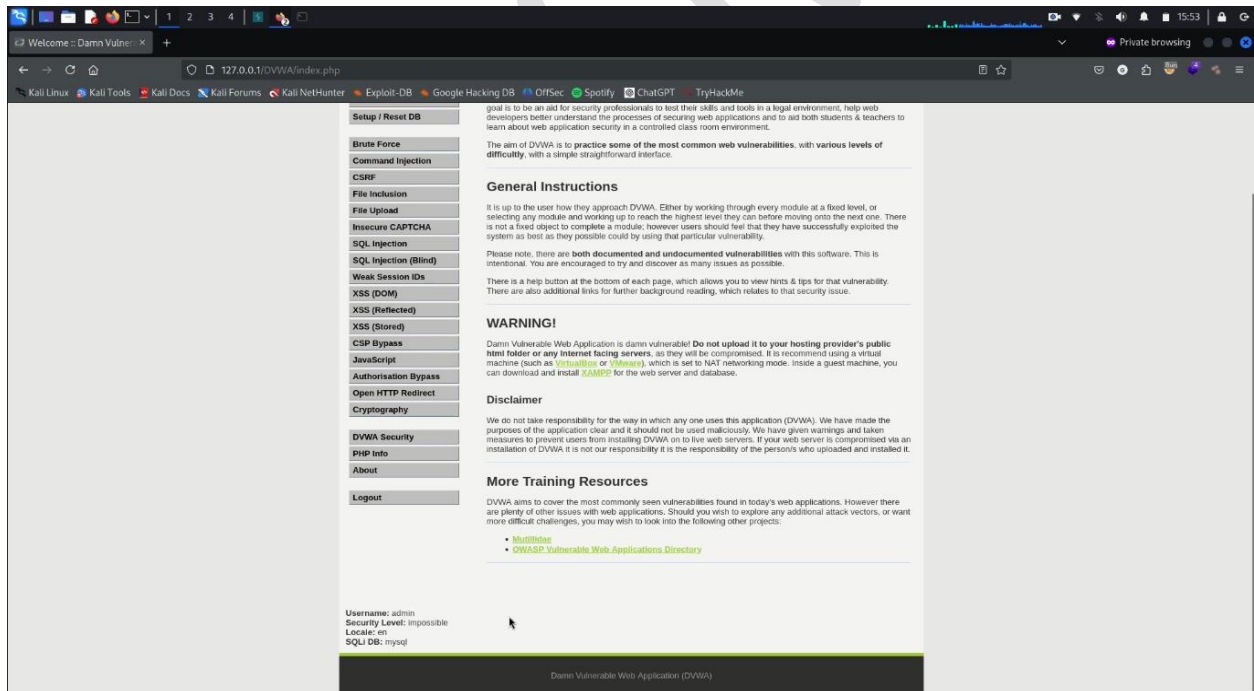


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Go to storage



Step5: Refresh the page will show as admin user



Link:

[https://www.youtube.com/watch?v=zblBWf\\_8TGg&list=PL0JHrE\\_bOMXjC2VnKpFLp1scjWMPf6cxW&index=1&ab\\_channel=MaCT](https://www.youtube.com/watch?v=zblBWf_8TGg&list=PL0JHrE_bOMXjC2VnKpFLp1scjWMPf6cxW&index=1&ab_channel=MaCT)