Assignment (a): Vulnerable Lab Setup & Proof

☑ What this is

You need to install a **vulnerable web application** on your computer (local machine). These apps are intentionally insecure so you can practice finding vulnerabilities safely.

✔ Two common apps:

- **OWASP Juice Shop** – modern insecure web app used for security learning.
- **DVWA (Damn Vulnerable Web Application)** – classic vulnerable app for learning flaws like SQL Injection, XSS, etc.

Vulnerable Lab Setup:

Application: DVWA (Damn Vulnerable Web Application)

OS: Parrot Security OS

Installation Method: apt package manager

Command Used: sudo apt install dvwa

Service Start: dvwa-start

Web Server: Apache2

Language: PHP 8.2

Access URL: http://localhost/dvwa

Port: 80

Database: MySQL

Purpose: Vulnerable web app for security testing practice

Install requirements

sudo apt update

sudo apt install apache2 mariadb-server php php-mysqli php-gd git unzip -y

Step 3: Clone DVWA from Official GitHub

cd /var/www/html

sudo git clone https://github.com/digininja/DVWA.git dvwa

Step 4: Verify files (IMPORTANT)

ls /var/www/html/dvwa

Expected output:

about.php

config

css

docs

external

favicon.ico

images

includes

index.php

login.php

logout.php

phpids

robots.txt

setup.php

vulnerabilities

Step 5: Configure DVWA

cd /var/www/html/dvwa/config

sudo cp config.inc.php.dist config.inc.php

Edit config:

sudo nano config.inc.php

Change DB settings to:

$_DVWA['db_server']   = '127.0.0.1';

$_DVWA['db_database'] = 'dvwa';

$_DVWA['db_user'] = 'root';

$_DVWA['db_password'] = '';

step 6: Set permissions

sudo chmod -R 777 /var/www/html/dvwa

Step 7: Restart services

service apache2 restart

service mariadb restart

tep 8: Open DVWA

Browser:

http://localhost/dvwa/setup.php

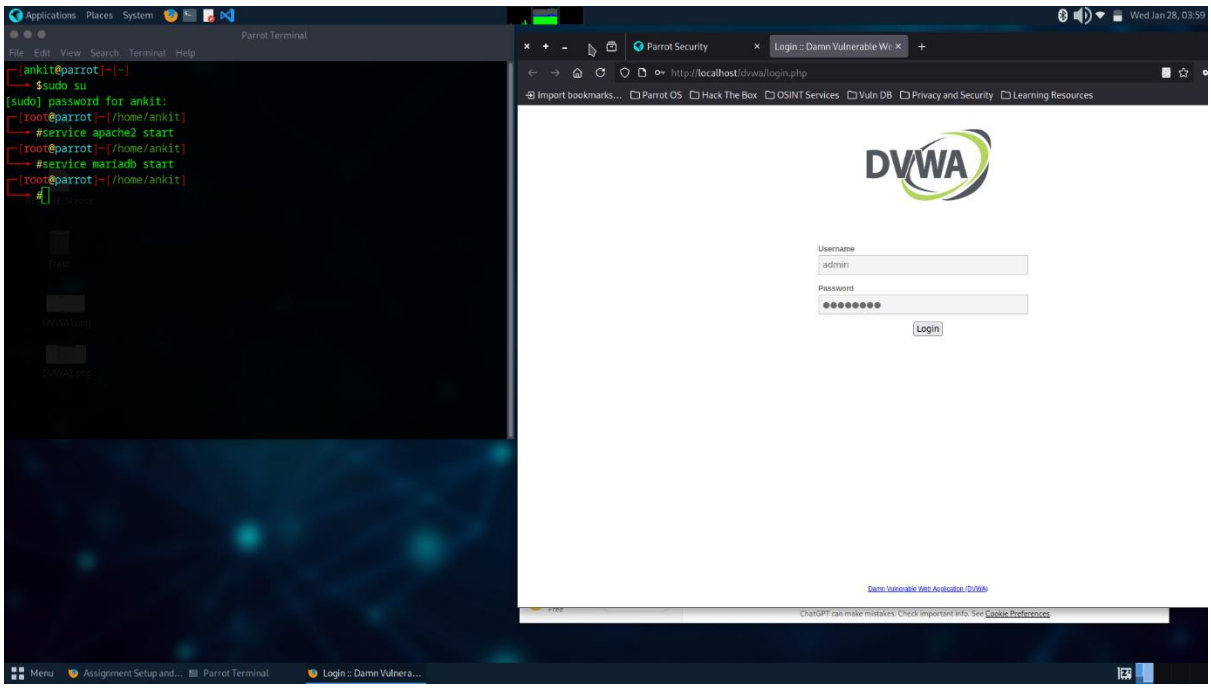
Click **Create / Reset Database**

Then:

http://localhost/dvwa/login.php

Login:

admin / password



OWASP Juice Shop Installation (EASY METHOD – Docker)

Vulnerable Lab Setup:

Application: OWASP Juice Shop

OS: Parrot Security OS

Installation Method: Docker

Docker Image: bkimminich/juice-shop

Command Used: docker pull bkimminich/juice-shop

Run Command: docker run -d -p 3000:3000 bkimminich/juice-shop

Access URL: http://localhost:3000

Port: 3000

Purpose: Modern intentionally vulnerable web application for security testing

sudo apt update

sudo apt install docker.io -y

Step 2: Docker start karo

service docker start

Check:

docker --version

Step 3: OWASP Juice Shop image pull karo

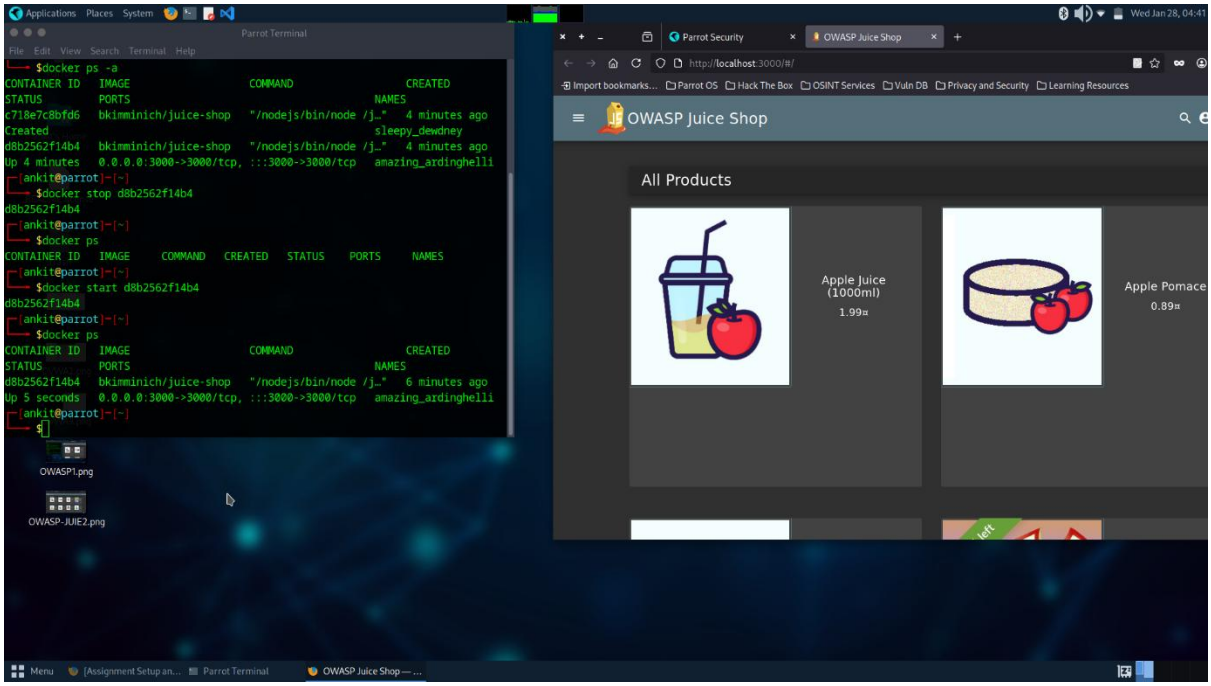
docker pull bkimminich/juice-shop

Step 4: Juice Shop run karo

docker run -d -p 3000:3000 bkimminich/juice-shop

Step 5: Browser open karo

http://localhost:3000


Applications Places System
Parrot Terminal
File Edit View Search Terminal Help
$docker ps -a
CONTAINER ID IMAGE COMMAND CREATED
STATUS PORTS NAMES
c718e7c8bfd6 bkimminich/juice-shop "/nodejs/bin/node /j…" 4 minutes ago
Created sleepy_dewdney
d8b2562f14b4 bkimminich/juice-shop "/nodejs/bin/node /j…" 4 minutes ago
Up 4 minutes 0.0.0.0:3000->3000/tcp, :::3000->3000/tcp amazing_ardinghelli
[ankit@parrot]-[~]
$docker stop d8b2562f14b4
d8b2562f14b4
[ankit@parrot]-[~]
$docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
[ankit@parrot]-[~]
$docker start d8b2562f14b4
d8b2562f14b4
[ankit@parrot]-[~]
$docker ps
CONTAINER ID IMAGE COMMAND CREATED
STATUS PORTS NAMES
d8b2562f14b4 bkimminich/juice-shop "/nodejs/bin/node /j…" 6 minutes ago
Up 5 seconds 0.0.0.0:3000->3000/tcp, :::3000->3000/tcp amazing_ardinghelli
[ankit@parrot]-[~]
$
OWASP1.png
OWASP-JUIE2.png
Wed Jan 28, 04:41
Parrot Security
OWASP Juice Shop
http://localhost:3000/#/
Import bookmarks... Parrot OS Hack The Box OSINT Services Vuln DB Privacy and Security Learning Resources
OWASP Juice Shop
All Products
Apple Juice (1000ml)
1.99¤
Apple Pomace
0.89¤
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