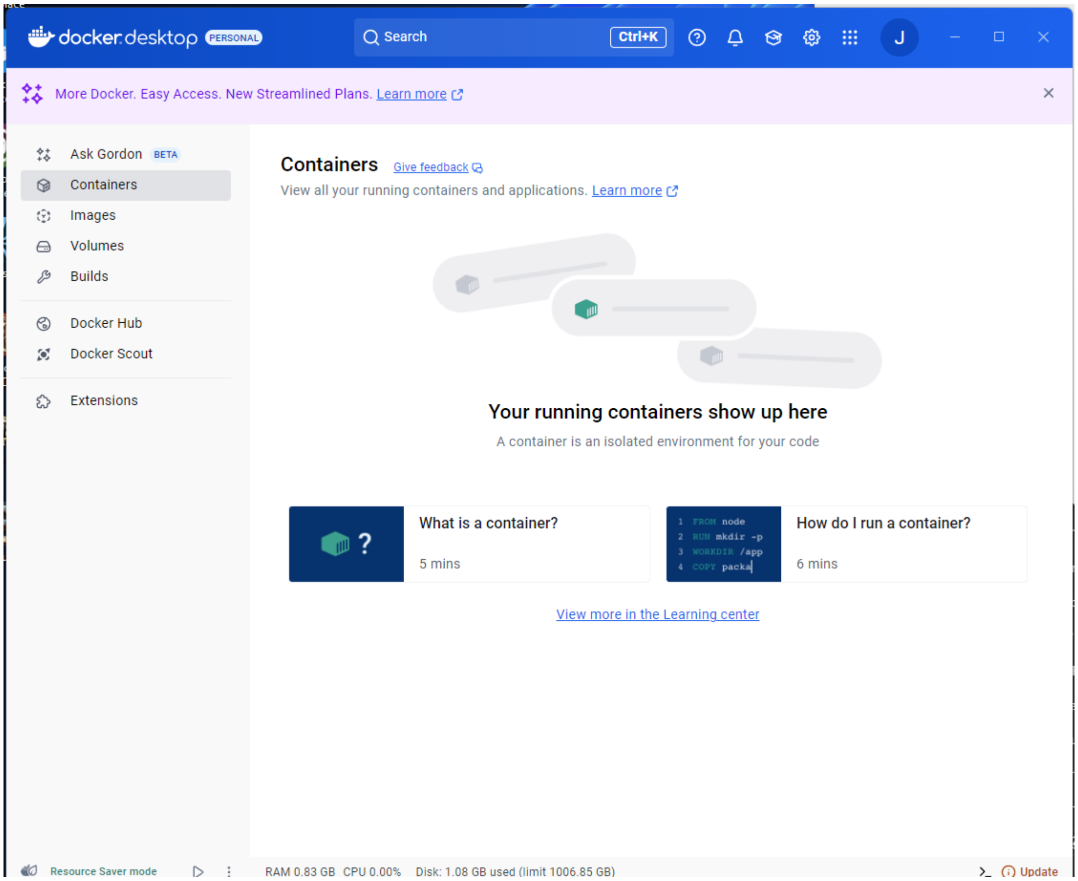
Docker installation on Win 11 OS, with WSL2 backend.



More Docker. Easy Access. New Streamlined Plans. Learn more

Containers Give feedback

View all your running containers and applications. Learn more

Your running containers show up here

A container is an isolated environment for your code

What is a container?

5 mins

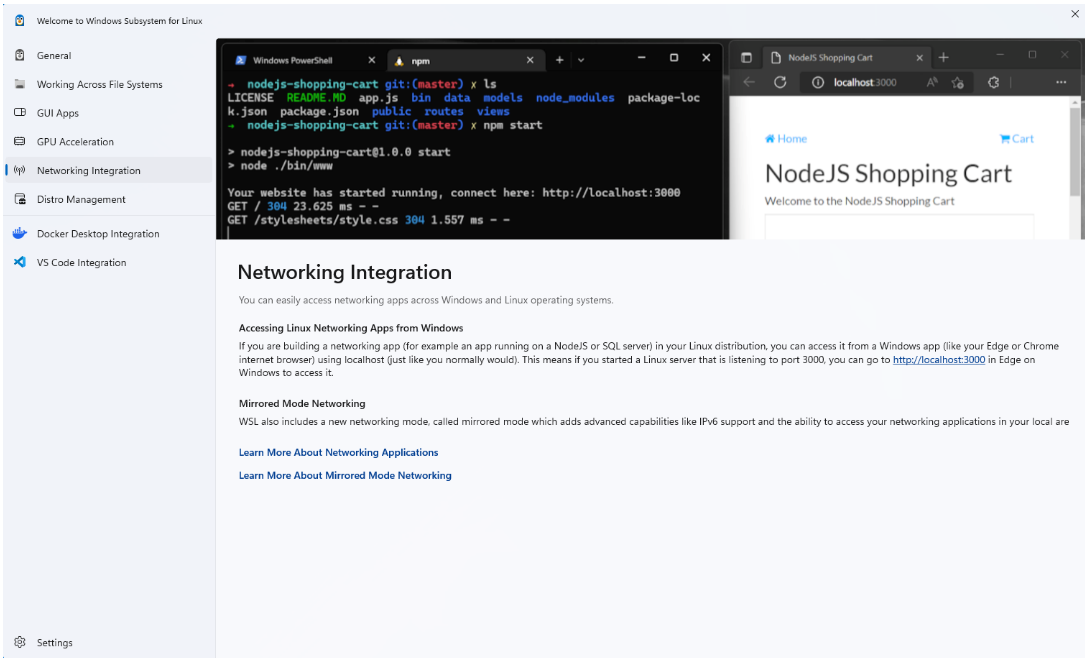
```
FROM node
RUN mkdir -p
WORKDIR /app
COPY packa
```

How do I run a container?

6 mins

View more in the Learning center

RAM 0.83 GB CPU 0.00% Disk: 1.08 GB used (limit 1006.85 GB)



```
→ nodejs-shopping-cart git:(master) ✗ ls
LICENSE  README.MD  app.js  bin  data  models  node_modules  package-loc
k.json  package.json  public  routes  views
→ nodejs-shopping-cart git:(master) ✗ npm start

> nodejs-shopping-cart@1.0.0 start
> node ./bin/www

Your website has started running, connect here: http://localhost:3000
GET / 304 23.625 ms - -
GET /stylesheets/style.css 304 1.557 ms - -
```

NodeJS Shopping Cart

Welcome to the NodeJS Shopping Cart

Networking Integration

You can easily access networking apps across Windows and Linux operating systems.

Accessing Linux Networking Apps from Windows

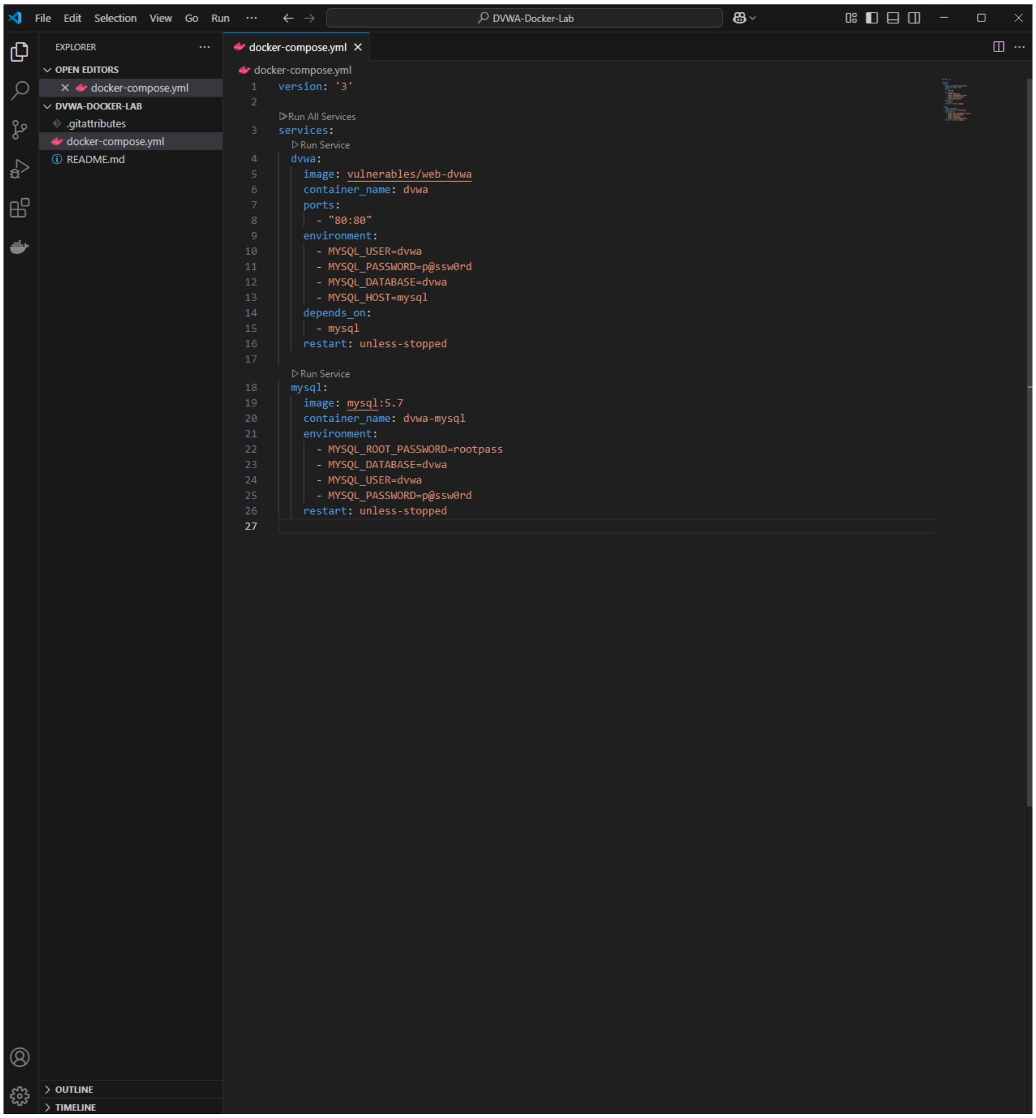
If you are building a networking app (for example an app running on a NodeJS or SQL server) in your Linux distribution, you can access it from a Windows app (like your Edge or Chrome internet browser) using localhost (just like you normally would). This means if you started a Linux server that is listening to port 3000, you can go to http://localhost:3000 in Edge on Windows to access it.

Mirrored Mode Networking

WSL also includes a new networking mode, called mirrored mode which adds advanced capabilities like IPv6 support and the ability to access your networking applications in your local are

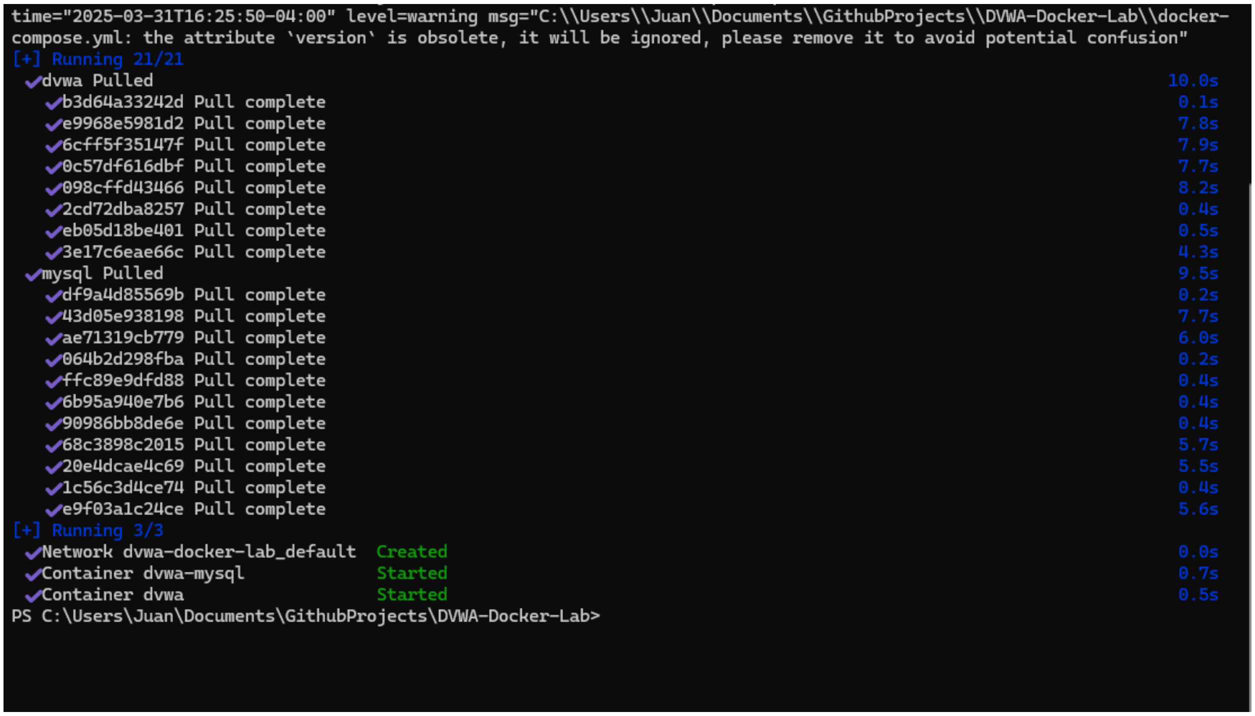
Learn More About Networking Applications

Learn More About Mirrored Mode Networking



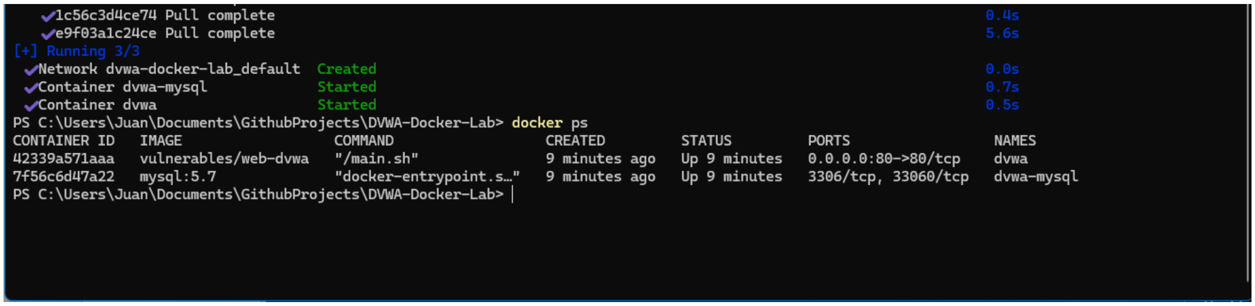
```yaml
version: '3'

services:
  dvwa:
    image: vulnerables/web-dvwa
    container_name: dvwa
    ports:
      - "80:80"
    environment:
      - MYSQL_USER=dvwa
      - MYSQL_PASSWORD=p@ssw0rd
      - MYSQL_DATABASE=dvwa
      - MYSQL_HOST=mysql
    depends_on:
      - mysql
    restart: unless-stopped

  mysql:
    image: mysql:5.7
    container_name: dvwa-mysql
    environment:
      - MYSQL_ROOT_PASSWORD=rootpass
      - MYSQL_DATABASE=dvwa
      - MYSQL_USER=dvwa
      - MYSQL_PASSWORD=p@ssw0rd
    restart: unless-stopped
```

Configure initial yaml file.



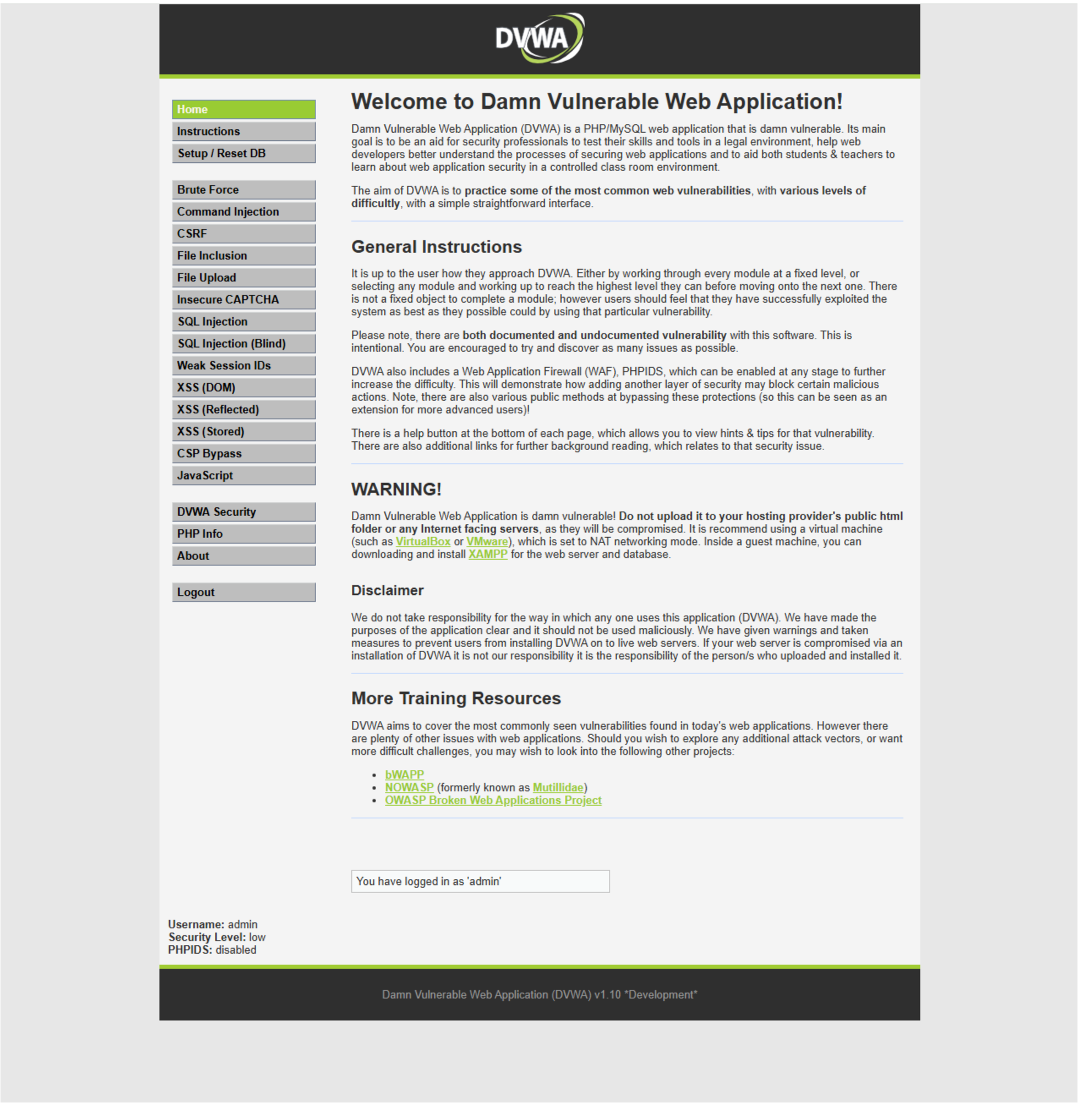
```
time="2025-03-31T16:25:50-04:00" level=warning msg="C:\\Users\\Juan\\Documents\\GithubProjects\\DVWA-Docker-Lab\\docker-
compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 21/21
 ✓dvwa Pulled                                                                                                    10.0s
   ✓b3d64a33242d Pull complete                                                                                     0.1s
   ✓e9968e5981d2 Pull complete                                                                                     7.8s
   ✓6cff5f35147f Pull complete                                                                                     7.9s
   ✓0c57df616dbf Pull complete                                                                                     7.7s
   ✓098cffd43466 Pull complete                                                                                     8.2s
   ✓2cd72dba8257 Pull complete                                                                                     0.4s
   ✓eb05d18be401 Pull complete                                                                                     0.5s
   ✓3e17c6eae66c Pull complete                                                                                     4.3s
 ✓mysql Pulled                                                                                                     9.5s
   ✓df9a4d85569b Pull complete                                                                                     0.2s
   ✓43d05e938198 Pull complete                                                                                     7.7s
   ✓ae71319cb779 Pull complete                                                                                     6.0s
   ✓064b2d298fba Pull complete                                                                                     0.2s
   ✓ffc89e9dfd88 Pull complete                                                                                     0.4s
   ✓6b95a940e7b6 Pull complete                                                                                     0.4s
   ✓90986bb8de6e Pull complete                                                                                     0.4s
   ✓68c3898c2015 Pull complete                                                                                     5.7s
   ✓20e4dcae4c69 Pull complete                                                                                     5.5s
   ✓1c56c3d4ce74 Pull complete                                                                                     0.4s
   ✓e9f03a1c24ce Pull complete                                                                                     5.6s
[+] Running 3/3
 ✓Network dvwa-docker-lab_default  Created                                                                         0.0s
 ✓Container dvwa-mysql             Started                                                                         0.7s
 ✓Container dvwa                   Started                                                                         0.5s
PS C:\Users\Juan\Documents\GithubProjects\DVWA-Docker-Lab>
```

Run docker compose up -d, enable connection through firewall.



```
   ✓1c56c3d4ce74 Pull complete                                                                    0.4s
   ✓e9f03a1c24ce Pull complete                                                                    5.6s
[+] Running 3/3
 ✓Network dvwa-docker-lab_default  Created                                                        0.0s
 ✓Container dvwa-mysql             Started                                                        0.7s
 ✓Container dvwa                   Started                                                        0.5s
PS C:\Users\Juan\Documents\GithubProjects\DVWA-Docker-Lab> docker ps
CONTAINER ID   IMAGE                  COMMAND                  CREATED         STATUS         PORTS                 NAMES
42339a571aaa   vulnerables/web-dvwa   "/main.sh"               9 minutes ago   Up 9 minutes   0.0.0.0:80->80/tcp    dvwa
7f56c6d47a22   mysql:5.7              "docker-entrypoint.s…"   9 minutes ago   Up 9 minutes   3306/tcp, 33060/tcp   dvwa-mysql
PS C:\Users\Juan\Documents\GithubProjects\DVWA-Docker-Lab> |
```

Ensure dvwa is running.



Welcome to Damn Vulnerable Web Application!

Damn Vulnerable Web Application (DVWA) is a PHP/MySQL web application that is damn vulnerable. Its main goal is to be an aid for security professionals to test their skills and tools in a legal environment, help web developers better understand the processes of securing web applications and to aid both students & teachers to learn about web application security in a controlled class room environment.

The aim of DVWA is to **practice some of the most common web vulnerabilities**, with **various levels of difficultly**, with a simple straightforward interface.

General Instructions

It is up to the user how they approach DVWA. Either by working through every module at a fixed level, or selecting any module and working up to reach the highest level they can before moving onto the next one. There is not a fixed object to complete a module; however users should feel that they have successfully exploited the system as best as they possible could by using that particular vulnerability.

Please note, there are **both documented and undocumented vulnerability** with this software. This is intentional. You are encouraged to try and discover as many issues as possible.

DVWA also includes a Web Application Firewall (WAF), PHPIDS, which can be enabled at any stage to further increase the difficulty. This will demonstrate how adding another layer of security may block certain malicious actions. Note, there are also various public methods at bypassing these protections (so this can be seen as an extension for more advanced users)!

There is a help button at the bottom of each page, which allows you to view hints & tips for that vulnerability. There are also additional links for further background reading, which relates to that security issue.

WARNING!

Damn Vulnerable Web Application is damn vulnerable! **Do not upload it to your hosting provider's public html folder or any Internet facing servers**, as they will be compromised. It is recommend using a virtual machine (such as VirtualBox or VMware), which is set to NAT networking mode. Inside a guest machine, you can downloading and install XAMPP for the web server and database.

Disclaimer

We do not take responsibility for the way in which any one uses this application (DVWA). We have made the purposes of the application clear and it should not be used maliciously. We have given warnings and taken measures to prevent users from installing DVWA on to live web servers. If your web server is compromised via an installation of DVWA it is not our responsibility it is the responsibility of the person/s who uploaded and installed it.

More Training Resources

DVWA aims to cover the most commonly seen vulnerabilities found in today's web applications. However there are plenty of other issues with web applications. Should you wish to explore any additional attack vectors, or want more difficult challenges, you may wish to look into the following other projects:

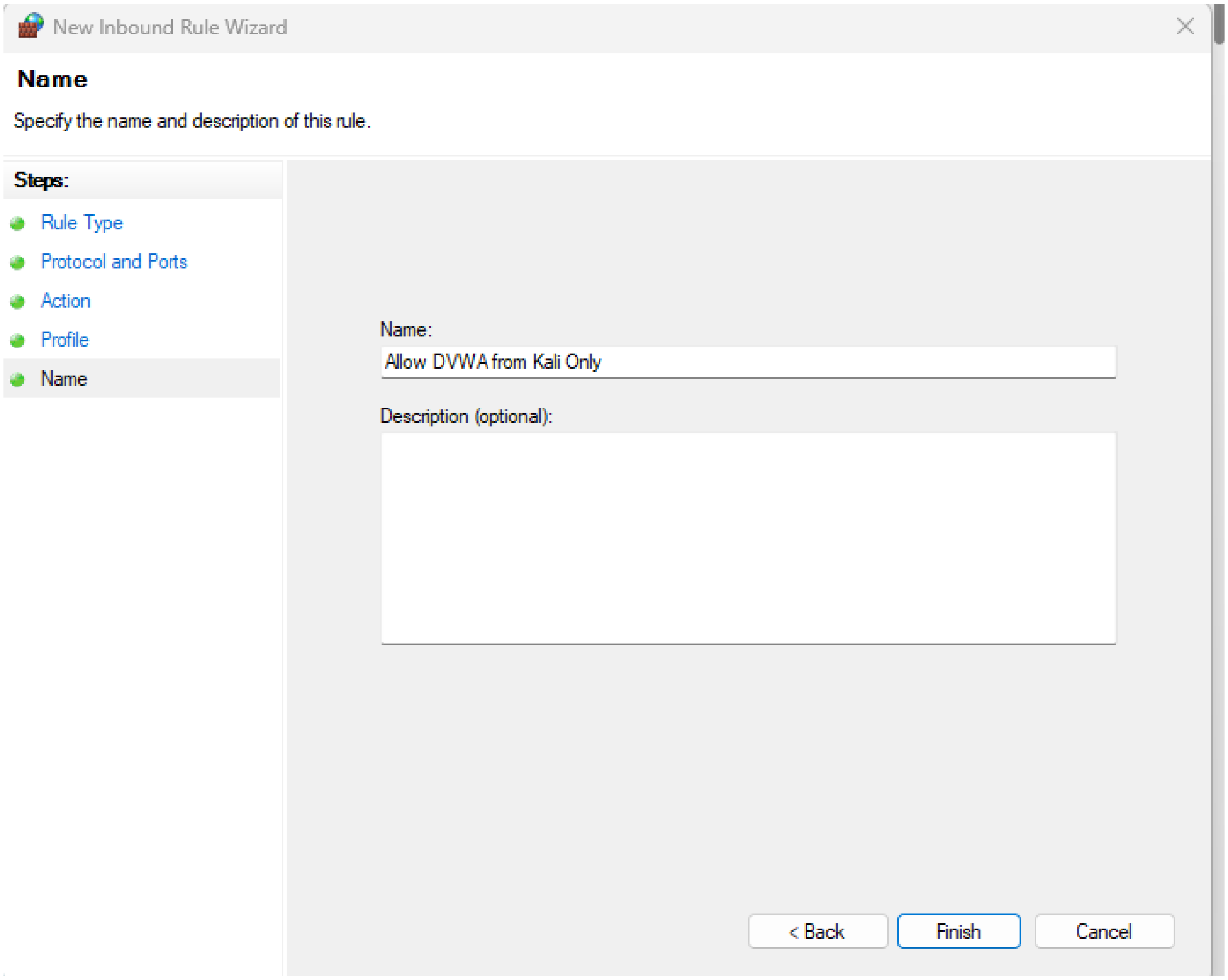
- bWAPP
- NOWASP (formerly known as Mutillidae)
- OWASP Broken Web Applications Project

You have logged in as 'admin'

Username: admin
Security Level: low
PHPIDS: disabled

Damn Vulnerable Web Application (DVWA) v1.10 *Development*

Visit localhost/index.php – DVWA is now live.



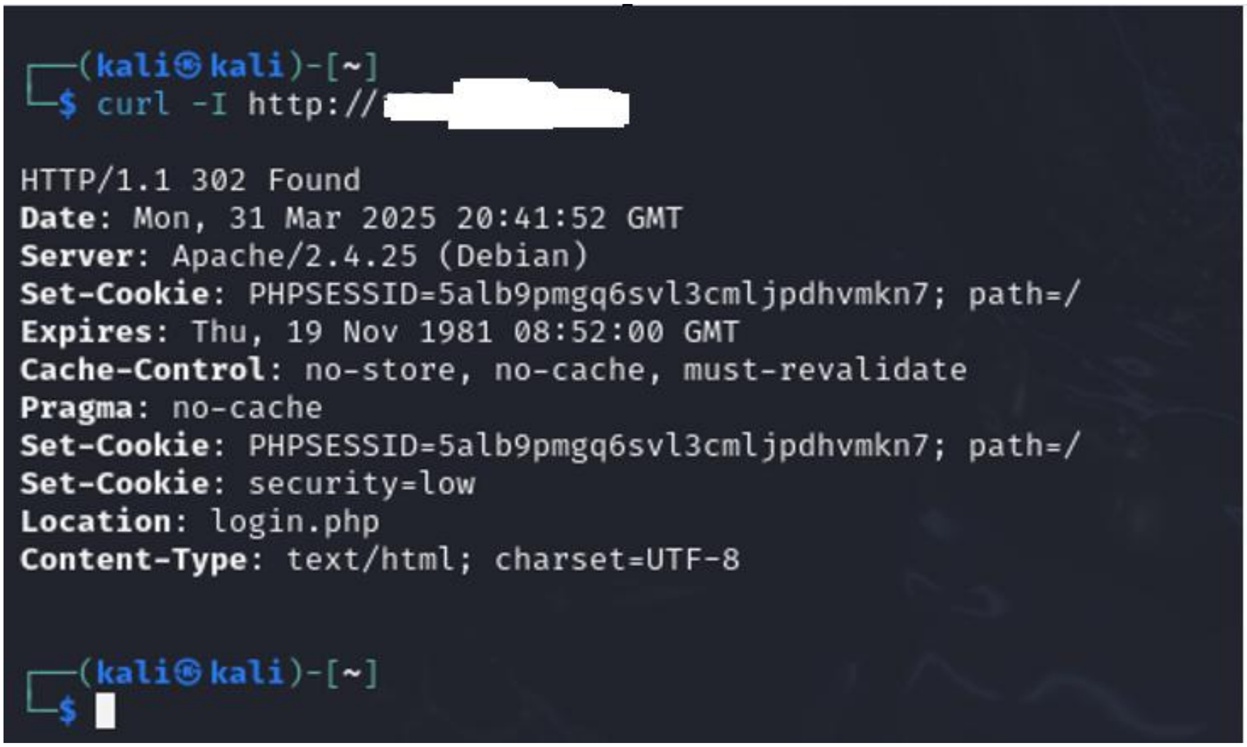
Name

Specify the name and description of this rule.

Name: Allow DVWA from Kali Only

Description (optional):

Configure firewall to allow connection from internal network only on port 80.



```
┌──(kali㉿kali)-[~]
└─$ curl -I http://[redacted]

HTTP/1.1 302 Found
Date: Mon, 31 Mar 2025 20:41:52 GMT
Server: Apache/2.4.25 (Debian)
Set-Cookie: PHPSESSID=5alb9pmgq6svl3cmljpdhvmkn7; path=/
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate
Pragma: no-cache
Set-Cookie: PHPSESSID=5alb9pmgq6svl3cmljpdhvmkn7; path=/
Set-Cookie: security=low
Location: login.php
Content-Type: text/html; charset=UTF-8


┌──(kali㉿kali)-[~]
└─$ 
```

Run curl -I http://<your-ip-address>