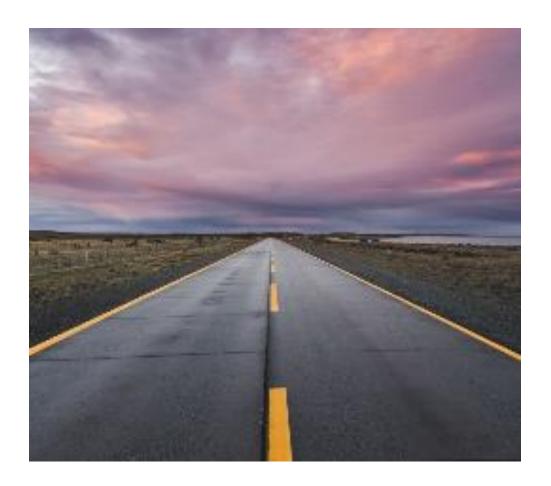
REPORT



TryHackMe | Road Vəli Qasımlı 02.15.2025

Content

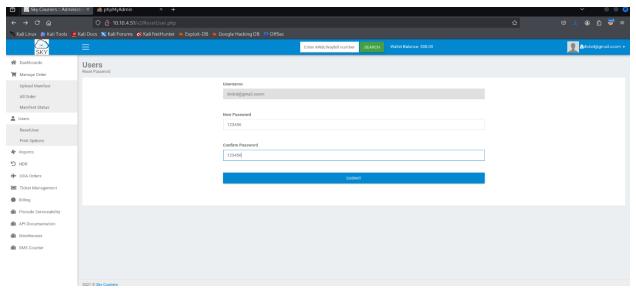
- 1. deploy the machine and connect to our network
- 2. vulnerability detection
- 3. exploitation
- 4. privilage escalation

First, we scan open ports with nmap.

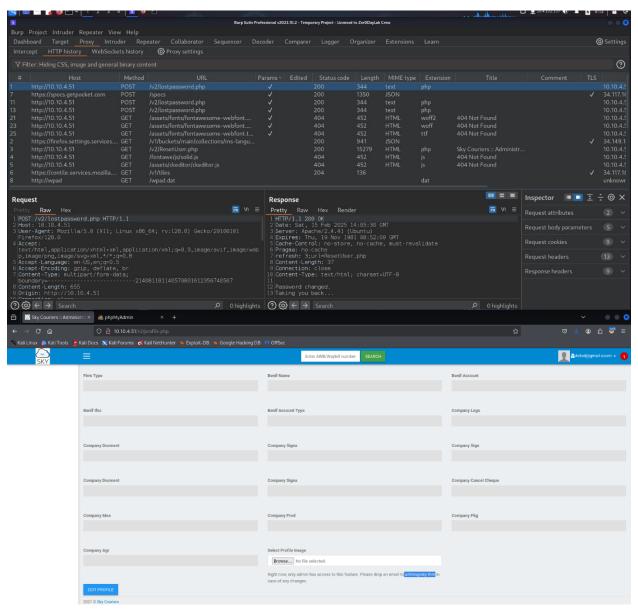
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| Starting Namp
```

After the Nmap scan is complete, we see that ports 22 and 80 are open here. From the scan, we know that there is a website and we go to the site and examine it. We do a directory enumeration of the site with feroxbuster.

We see the URL admin/login.html, log in to the site and register.



After logging in as a user, we will change the password, log in to the burp suite, and monitor the requests.



When we go down, we see the admin@sky.thm account here. So we log into the burp suite, capture the requests, send them to the repeater and analyze them.

We delete the account we created in Repeater and write the admin account admin@sky.thm. So we changed the code of the admin account, not the account we created. We go to the login page again and log in with the admin account and go to the profile and view page source and see /v2/profileimages/.

```
| Compact | Comp
```

Now we are looking for a reverse shell on our machine and we find the php code, create it with nano and add it in. In the IP section, we write the IP of our machine and the port 1234 and save it.

We log in to the admin profile on the website, click browse... below, enter the php code we want to get the reverse shell from, and the file will be uploaded to /v2/profileimages/.

To get a reverse shell, we open a listening port on our machine: nc - lvnp 1234.

We run the code /v2/profileimages/reverse-shell.php on the site and the shell appears.

```
pwd / /
cd home
pwd /
//home
ls
webdeveloper
cd we bash: line 6: cd: we: No such file or directory
cd webdeveloper
ls
user.txt
cat user.txt
63191e4eec37523c9fe6bb62a5e64d45
```

We use the pwd command to check where we are. Then we go to /home/webdeveloper and do cat user.txt to find the answer.

If we look at the /etc/passwd file, we find that there are MongoDB and MySQL users. This shows that MongoDB can run.

We use ss -tulwn to see which ports are currently open and listening.

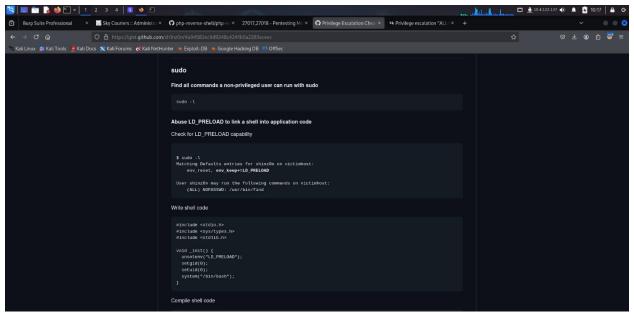
Here 27017 is the port for MongoDB.

Some MongoDB commnads:

```
show dbs
use <db>
show collections
db.<collection>.find() #Dump the collection
db.<collection>.count() #Number of records of the collection
db.current.find({"username":"admin"}) #Find in current db the username admin
```

show dbs We enter to list the existing databases. use backup We use to access the backup database. We list the tables in the database by typing show collections. We use db.user.find() to read the user inside the table and we take the code of webdeveloper and enter the code by typing su webdeveloper.

We use the sudo -l command and it shows us how to become root. LD_PRELOAD allows any program to use shared libraries.



We write the shell code by creating nano shell.c and to make it executable we use gcc -fPIC -shared -o shell.so shell.c -nostartfiles and this file will have the .so extension.

Finally, we enter sudo LD_PRELOAD=/home/webdeveloper/shell.so sky_backup_utility and become root. We finish our lab by reading cat root.txt. Thanks for taking the time to read!