

**RAHUL KUMAR**

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Project: **Penetration Testing on Web Server**

Website: [Certified Hacker](http://Certified Hacker) (cerifiedhacker.com)

## Footprinting and Reconnaissance

Supportive ScreenShots On **Footprinting and Reconnaissance** [Google Drive Link](#)

[Click link ScreenShots](#)

1. About company

Testing Website for Attack And finding vulnerability

2. IP address of Website

162.241.216.11

3. Location of server

### Hosting History

Netblock owner	IP address	OS	Web server	Last seen
<a href="#">Unified Layer 1958 South 950 East Provo UT US 84606</a>	162.241.216.11	Linux	Apache	16-Jun-2020
<a href="#">Unified Layer 1958 South 950 East Provo UT US 84606</a>	162.241.216.11	Linux	nginx/1.12.2	28-Feb-2018

United States








4. Operating System of server

Linux

5. Web server technology and version

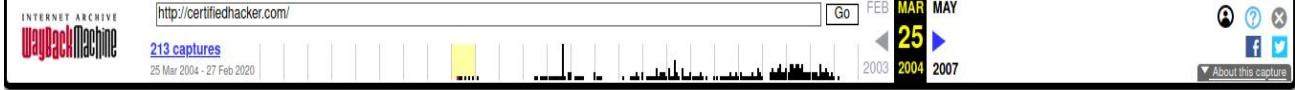
Apache

6. Built in technology

-  **Google Font API**
-  **jQuery**
- **jQuery Migrate**
-  **MySQL**
-  **PHP**
-  **Twitter**
-  **WordPress**
-  **Yoast SEO**

7. When website first seen

25/03/2004  
[checking on web.archive.org](http://web.archive.org)



8. Previous technology used by website

//Support from netcraft.com

Netblock owner	IP address	OS	Web server	Last seen
Unified Layer 1958 South 950 East Provo UT US 84606	162.241.216.11	Linux	Apache	6-Jul-2020
Unified Layer 1958 South 950 East Provo UT US 84606	162.241.216.11	Linux	nginx/1.14.1	29-May-2019
Unified Layer 1958 South 950 East Provo UT US 84606	162.241.216.11	Linux	nginx/1.12.2	28-Nov-2018

Unified Layer 1958 South 950 East Provo UT US 84606	69.89.31.193	-	nginx/1.12.1	5-Nov-2017
Unified Layer 1958 South 950 East Provo UT US 84606	69.89.31.193	Linux	Apache	17-Oct-2017
Unified Layer 1958 South 950 East Provo UT US 84606	69.89.31.193	Linux	nginx/1.12.1	6-Oct-2017
Unified Layer 1958 South 950 East Provo UT US 84606	69.89.31.193	Linux	nginx/1.12.0	28-May-2017
Unified Layer 1958 South 950 East Provo UT US 84606	69.89.31.193	Linux	nginx/1.10.2	15-Apr-2017
Unified Layer 1958 South 950 East Provo UT US 84606	69.89.31.193	Linux	nginx/1.10.1	19-Oct-2016
Unified Layer 1958 South 950 East Provo UT US 84606	69.89.31.193	Linux	nginx/1.10.0	31-May-2016

9. Which ISP IP range server is using

NetRange: 162.240.0.0 - 162.241.255.255  
CIDR: 162.240.0.0/15

10. Do any other domains are on same server, if yes domain names

**Complete [List Present on this Link\(bgp.he.net\)](http://bgp.he.net)**

11. Ports open on Webserver

- 21
- 22
- 26
- 53
- 80
- 110
- 443
- 995

//support from dmitry -p certifiedhacker.com

## 12. Registrar information of domain

Domain Name: CERTIFIEDHACKER.COM  
Registry Domain ID: 88849376\_DOMAIN\_COM-VRSN  
Registrar WHOIS Server: whois.networksolutions.com  
Registrar URL: http://networksolutions.com  
Updated Date: 2019-08-22T08:13:02Z  
Creation Date: 2002-07-30T00:32:00Z  
Registrar Registration Expiration Date: 2021-07-30T00:32:00Z  
Registrar: Network Solutions, LLC  
Registrar IANA ID: 2  
Registrar Abuse Contact Email: abuse@web.com  
Registrar Abuse Contact Phone: +1.8003337680

//getting info by [complete list Url](#)

## 13. Email ID of some employees of company

abuse@web.com

## 14. Social Networking Profiles of employees

Usufy -n certifiedhacker.com -p youtube twitter facebook  
Searchfy -q certifiedhacker.com

## 15. LinkedIn Search for profiles with company name

Osrfamework using  
Usufy -n certifiedhacker.com -p youtube twitter facebook  
Searchfy -q certifiedhacker.com

16. Address of company

**PERFECT PRIVACY, LLC**  
**5335 Gate Parkway care of Network Solutions PO Box 459,**  
**Jacksonville, FL, 32256, us**  
r69rg8833re@networksolutionsprivateregistration.com  
(p) 15707088780

17. Director/CEO of company

NA

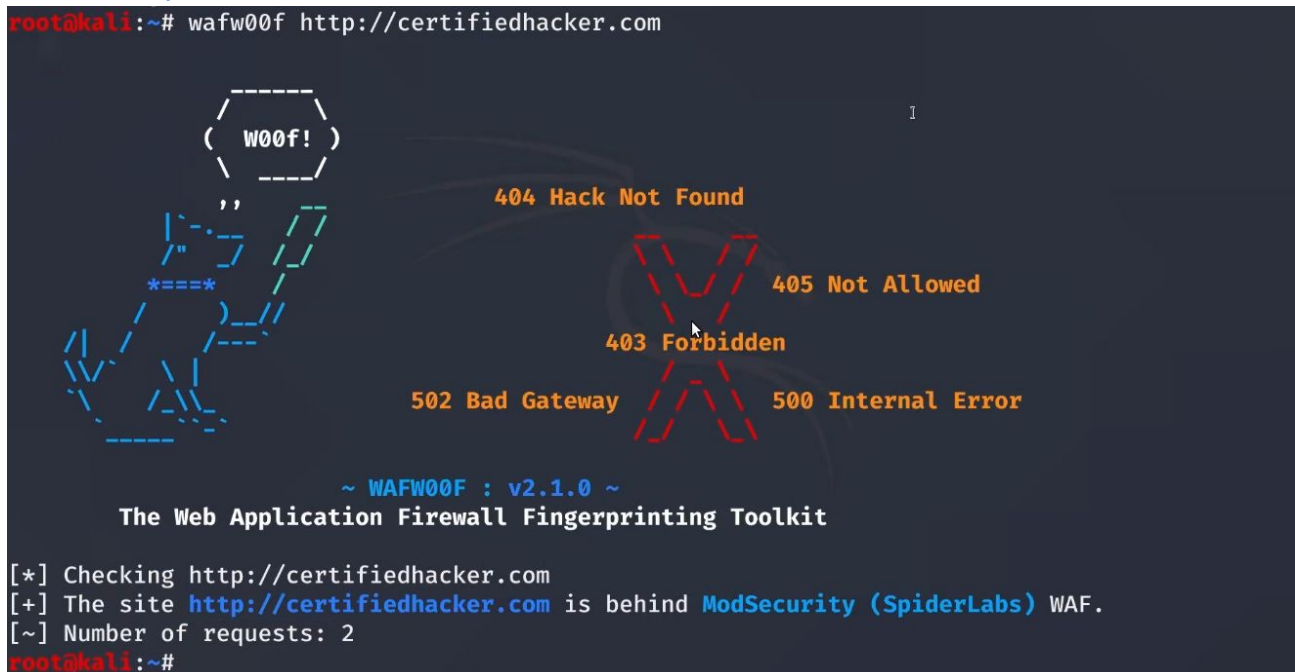
18. Check firewall and load balancer presence

Certifiedhacker.com doesn't use any load Balancing.  
lbd certifiedhacker.com

Command as--

wafwoof <http://certifiedhacker.com>

```
root@kali:~# wafwoof http://certifiedhacker.com
```



19. Check directory listing, if enabled write the directory structure

NA

20. Check for files such as robots.txt and sites.xml

NA



## Reconnaissance

Reconnaissance is the phase where the attacker gathers information about a target using active or passive means. The tools that are widely used in this process are NMAP, Hping, Maltego.

## Scanning

In this process, the attacker begins to actively probe a target machine or network for vulnerabilities that can be exploited. The tools used in this process are Nessus, and NMAP.

## Gaining Access

In this process, the vulnerability is located and you attempt to exploit it in order to enter into the system. The primary tool that is used in this process is Metasploit.

## Maintaining Access

It is the process where the hacker has already gained access into a system. After gaining access, the hacker installs some backdoors in order to enter into the system when he needs access in this owned system in future. Metasploit is the preferred tool in this process.

## Clearing Tracks

This process is actually an unethical activity. It has to do with the deletion of logs of all the activities that take place during the hacking process.

## Reporting

Reporting is the last step of finishing the ethical hacking process. Here the Ethical Hacker compiles a report with his findings and the job that was done such as the tools used, the success rate, vulnerabilities found, and the exploit processes.

**2. Based on the Information from above source, scan the website of company for vulnerabilities**

**through different scanners, make a report on vulnerability which you find there.**

```
Activities VirtualBox Machine Thu Jul 16 12:41:37 PM
kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@kali: ~
root@kali: ~
File Actions Edit View Help
root@kali: ~
root@kali:~# nmap certifiedhacker.com
Starting Nmap 7.80 ( https://nmap.org ) at 2020-07-16 03:10 EDT
Nmap scan report for certifiedhacker.com (162.241.216.11)
Host is up (0.51s latency).
rDNS record for 162.241.216.11: box5331.bluehost.com
Not shown: 984 closed ports
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
25/tcp    filtered smtp
26/tcp    open  rsftp
53/tcp    open  domain
80/tcp    open  http
110/tcp   open  pop3
143/tcp   open  imap
443/tcp   open  https
465/tcp   open  smtps
587/tcp   open  submission
993/tcp   open  imaps
995/tcp   open  pop3s
2222/tcp  open  EtherNetIP-1
3306/tcp  open  mysql
5432/tcp  open  postgresql

Nmap done: 1 IP address (1 host up) scanned in 3.87 seconds
root@kali:~#
```

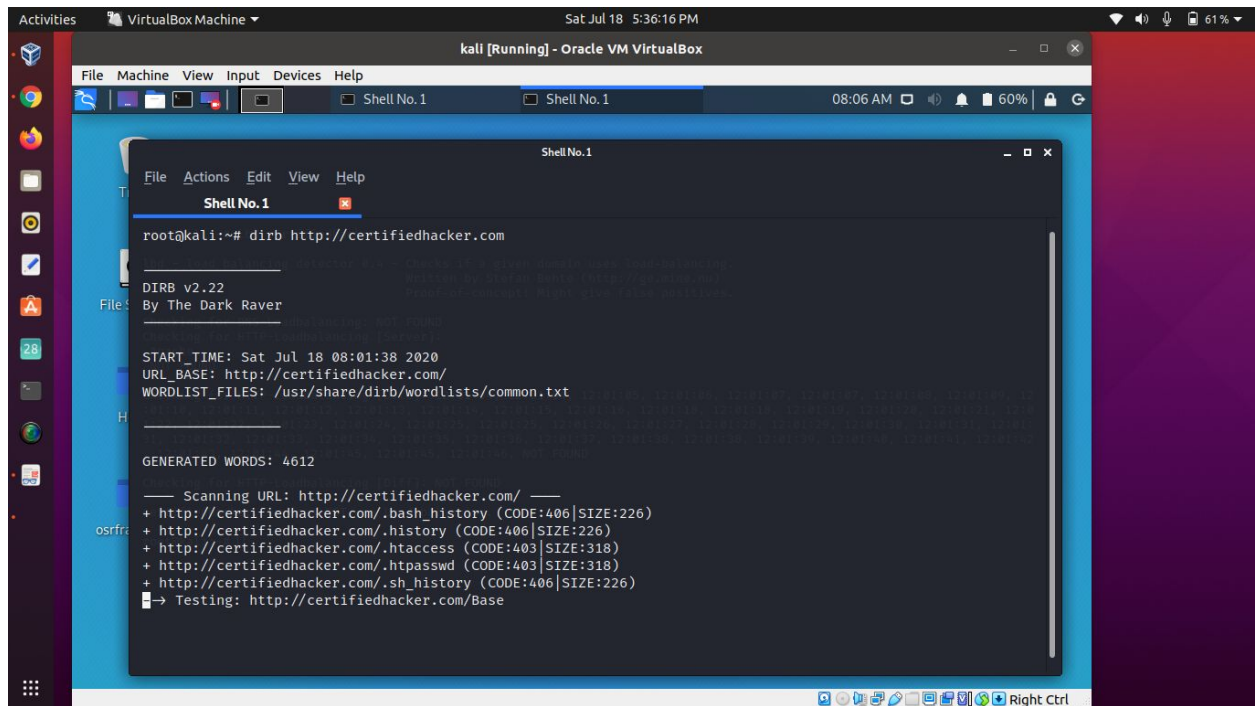
```
Activities VirtualBox Machine Thu Jul 16 12:43:00 PM
kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@kali: ~
root@kali: ~
File Actions Edit View Help
root@kali: ~
root@kali:~# hping3-c certifiedhacker.com
bash: hping3-c: command not found
root@kali:~# hping3 certifiedhacker.com
HPING certifiedhacker.com (eth0 162.241.216.11): NO FLAGS are set, 40 headers + 0 data bytes
len=46 ip=162.241.216.11 ttl=255 id=1009 sport=0 flags=RA seq=0 win=0 rtt=5.7 ms
len=46 ip=162.241.216.11 ttl=255 id=1010 sport=0 flags=RA seq=1 win=0 rtt=5.2 ms
len=46 ip=162.241.216.11 ttl=255 id=1011 sport=0 flags=RA seq=2 win=0 rtt=4.8 ms
len=46 ip=162.241.216.11 ttl=255 id=1012 sport=0 flags=RA seq=3 win=0 rtt=4.4 ms
len=46 ip=162.241.216.11 ttl=255 id=1013 sport=0 flags=RA seq=4 win=0 rtt=4.0 ms
len=46 ip=162.241.216.11 ttl=255 id=1014 sport=0 flags=RA seq=5 win=0 rtt=3.5 ms
len=46 ip=162.241.216.11 ttl=255 id=1015 sport=0 flags=RA seq=6 win=0 rtt=3.0 ms
len=46 ip=162.241.216.11 ttl=255 id=1016 sport=0 flags=RA seq=7 win=0 rtt=6.6 ms
len=46 ip=162.241.216.11 ttl=255 id=1017 sport=0 flags=RA seq=8 win=0 rtt=6.1 ms
len=46 ip=162.241.216.11 ttl=255 id=1018 sport=0 flags=RA seq=9 win=0 rtt=5.7 ms
len=46 ip=162.241.216.11 ttl=255 id=1019 sport=0 flags=RA seq=10 win=0 rtt=5.3 ms
len=46 ip=162.241.216.11 ttl=255 id=1020 sport=0 flags=RA seq=11 win=0 rtt=0.7 ms
len=46 ip=162.241.216.11 ttl=255 id=1021 sport=0 flags=RA seq=12 win=0 rtt=8.4 ms
len=46 ip=162.241.216.11 ttl=255 id=1022 sport=0 flags=RA seq=13 win=0 rtt=4.0 ms
len=46 ip=162.241.216.11 ttl=255 id=1023 sport=0 flags=RA seq=14 win=0 rtt=3.6 ms
len=46 ip=162.241.216.11 ttl=255 id=1024 sport=0 flags=RA seq=15 win=0 rtt=2.9 ms
len=46 ip=162.241.216.11 ttl=255 id=1025 sport=0 flags=RA seq=16 win=0 rtt=6.7 ms
len=46 ip=162.241.216.11 ttl=255 id=1026 sport=0 flags=RA seq=17 win=0 rtt=6.1 ms
len=46 ip=162.241.216.11 ttl=255 id=1027 sport=0 flags=RA seq=18 win=0 rtt=6.5 ms
len=46 ip=162.241.216.11 ttl=255 id=1028 sport=0 flags=RA seq=19 win=0 rtt=5.2 ms
len=46 ip=162.241.216.11 ttl=255 id=1029 sport=0 flags=RA seq=20 win=0 rtt=0.6 ms
len=46 ip=162.241.216.11 ttl=255 id=1030 sport=0 flags=RA seq=21 win=0 rtt=4.3 ms
len=46 ip=162.241.216.11 ttl=255 id=1031 sport=0 flags=RA seq=22 win=0 rtt=4.0 ms
```

3. Try to hack that server for services which you found there like ftp, login passwords. In report

write the tools which you have used to hack on that server and its output.

4. Check for database and try to get into database..





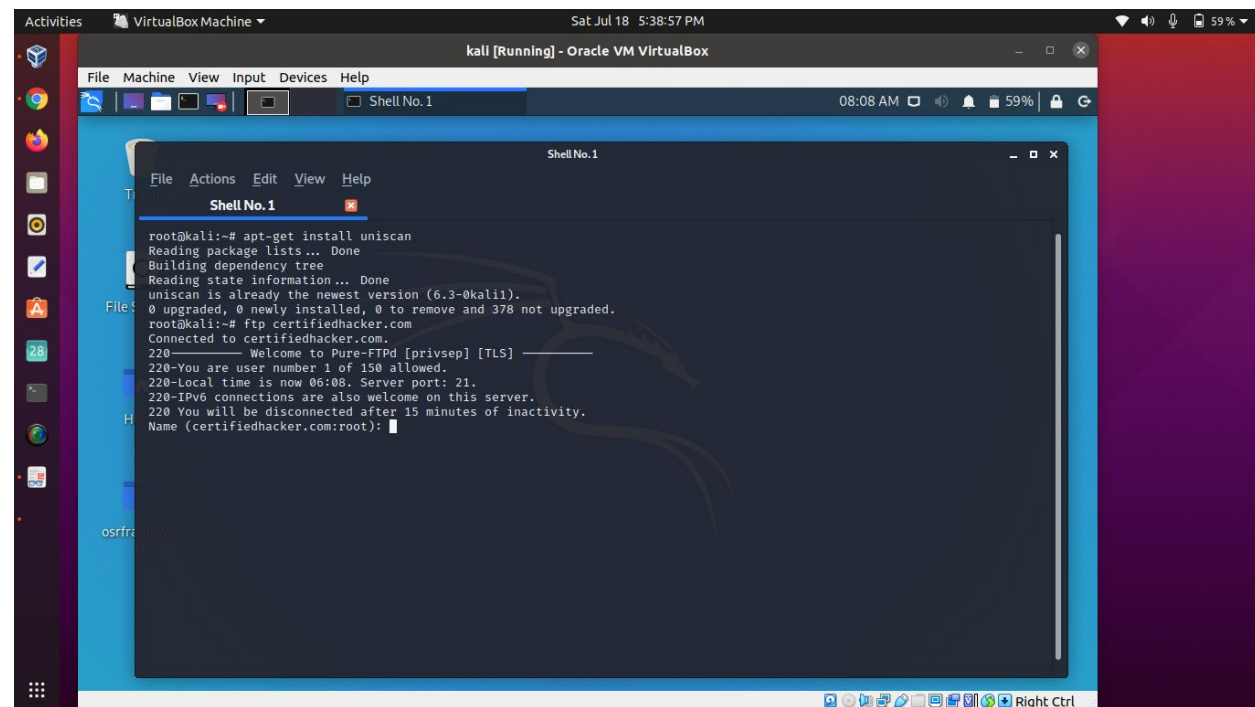
```
root@kali:~# dirb http://certifiedhacker.com

DIRB v2.22
By The Dark Raver

START_TIME: Sat Jul 18 08:01:38 2020
URL_BASE: http://certifiedhacker.com/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

GENERATED WORDS: 4612

--- Scanning URL: http://certifiedhacker.com/ ---
+ http://certifiedhacker.com/.bash_history (CODE:406|SIZE:226)
+ http://certifiedhacker.com/.history (CODE:406|SIZE:226)
+ http://certifiedhacker.com/.htaccess (CODE:403|SIZE:318)
+ http://certifiedhacker.com/.htpasswd (CODE:403|SIZE:318)
+ http://certifiedhacker.com/.sh_history (CODE:406|SIZE:226)
-> Testing: http://certifiedhacker.com/Base
```



```
root@kali:~# apt-get install uniscan
Reading package lists... Done
Building dependency tree
Reading state information... Done
uniscan is already the newest version (6.3-0kali1).
0 upgraded, 0 newly installed, 0 to remove and 378 not upgraded.
root@kali:~# ftp certifiedhacker.com
Connected to certifiedhacker.com.
220 --- Welcome to Pure-FTPd [privsep] [TLS] ---
220-You are user number 1 of 150 allowed.
220-Local time is now 06:08. Server port: 21.
220-IPv6 connections are also welcome on this server.
220 You will be disconnected after 15 minutes of inactivity.
Name (certifiedhacker.com:root):
```

**5. Write the final conclusion that you got from above process, if you found any vulnerabilities then how those vulnerabilities can be cover and if not, then also how much secured server is.**

## Conclusion

**certifiedhacker.com** One suffered a series of control failures, which led to a complete compromise of critical company assets. These failures would have had a dramatic effect on **certifiedhacker.com** One operations if a malicious party had exploited them. Current policies concerning password reuse and deployed access controls are not adequate to mitigate the impact of the discovered vulnerabilities.

## Recommendations

Due to the impact to the overall organization as uncovered by this penetration test, appropriate resources should be allocated to ensure that remediation efforts are accomplished in a timely manner. While a comprehensive list of items that should be implemented is beyond the scope of this engagement, some high level items are important to mention.

1. Ensure that strong credentials are use everywhere in the organization
2. Establish trust boundaries
3. Implement and enforce implementation of change control across all systems
4. Implement a patch management program
5. Conduct regular vulnerability assessments

## Risk Rating

The overall risk identified to certifiedhacker.com One as a result of the penetration test is **High**. A direct path from external attacker to full system compromise was discovered. It is reasonable to believe that a malicious entity would be able to successfully execute an attack against certifiedhacker.com One through targeted attacks.

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