

SMB Enumeration

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Scan the network to see if smb port are open. Note from the screenshot Metasploit.vm (172.17.0.2) has it port 139 and 445 open which , make use of SMB.

```
(root㉿Kali)-[~/home/kali]
# nmap -sN 172.17.0.0/24
Starting Nmap 7.94 ( https://nmap.org ) at 2025-12-17 00:04 UTC
Nmap scan report for metasploitable.vm (172.17.0.2)
Host is up (0.0000070s latency).
Not shown: 983 closed tcp ports (reset)
PORT      STATE          SERVICE
21/tcp    open|filtered  ftp
22/tcp    open|filtered  ssh
23/tcp    open|filtered  telnet
25/tcp    open|filtered  smtp
80/tcp    open|filtered  http
111/tcp   open|filtered  rpcbind
139/tcp   open|filtered  netbios-ssn
445/tcp   open|filtered  microsoft-ds
512/tcp   open|filtered  exec
513/tcp   open|filtered  login
514/tcp   open|filtered  shell
1099/tcp  open|filtered  rmiregistry
1524/tcp  open|filtered  ingreslock
2121/tcp  open|filtered  ccproxy-ftp
3306/tcp  open|filtered  mysql
5432/tcp  open|filtered  postgresql
6667/tcp  open|filtered  irc
MAC Address: 02:42:AC:11:00:02 (Unknown)
```

A comprehensive cheat sheet of options for enumerating Windows/Samba hosts, from basic user/share lookups to advanced RID cycling and verbose checks — essential toolkit for SMB reconnaissance in pentesting labs

```

Options are (like "enum"):
-U      get userlist
-M      get machine list*
-S      get sharelist
-P      get password policy information
-G      get group and member list
-d      be detailed, applies to -U and -S
-u user  specify username to use (default "")
-p pass   specify password to use (default "")

The following options from enum.exe aren't implemented: -L, -N, -D, -f
SE-Html

Additional options:
-a      Do all simple enumeration (-U -S -G -P -r -o -n -i).
        This option is enabled if you don't provide any other options.
-h      Display this help message and exit
-r      enumerate users via RID cycling
-R range RID ranges to enumerate (default: 500-550,1000-1050, implies -r)
-K n    Keep searching RIDs until n consecutive RIDs don't correspond to
        a username. Impies RID range ends at 999999. Useful
        against DCs.
-l      Get some (limited) info via LDAP 389/TCP (for DCs only)
-s file  brute force guessing for share names
-k user   User(s) that exists on remote system (default: administrator,guest,krbtgt,domain admins,root,bin,none)
        Used to get sid with "lookupsid known_username"
        Use commas to try several users: "-k admin,user1,user2"
-o      Get OS information
-i      Get printer information
-w wrkg   Specify workgroup manually (usually found automatically)
-n      Do an nmblookup (similar to nbtstat)
-v      Verbose. Shows full commands being run (net, rpcclient, etc.)
-A      Aggressive. Do write checks on shares etc

RID cycling should extract a list of users from Windows (or Samba) hosts
which have RestrictAnonymous set to 1 (Windows NT and 2000), or "Network"

```

Get a list of user accounts on the target.

```
enum4linux -U 172.17.0.2
```

- **enum4linux:** A Perl tool (wrapper around Samba utilities like rpcclient, smbclient, net, nmblookup) that extracts information from Windows or Samba hosts, similar to the old Windows tool enum.exe.
- **U:** The option to specifically enumerate the **userlist** (get a list of user accounts on the target).
- **172.17.0.2:** The target IP address (in your previous screenshots, this is a vulnerable Metasploitable 2 machine)

```
(kali㉿Kali)-[~]
└─$ enum4linux -U 172.17.0.2
Starting enum4linux v0.9.1 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Fri Dec 19 14:47:12 2025
    _____( Target Information )_____
Target ..... 172.17.0.2
RID Range ..... 500-550,1000-1050
Username .....
Password .....
Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none

    _____( Enumerating Workgroup/Domain on 172.17.0.2 )_____
[+] Got domain/workgroup name: WORKGROUP

    _____( Session Check on 172.17.0.2 )_____
[+] Server 172.17.0.2 allows sessions using username '', password ''
  WORKGROUP  WORKGROUP  WORKGROUP  WORKGROUP  WORKGROUP  RECON
    _____( Getting domain SID for 172.17.0.2 )_____
Domain Name: WORKGROUP
Domain Sid: (NULL SID)
[+] Can't determine if host is part of domain or part of a workgroup
```

It shows a detailed list of enumerated user accounts on a Samba server at IP 172.17.0.2 (likely Metasploitable 2), including RIDs, account names (e.g., root, www-data, mysql, postgres, msfadmin), full names, and descriptions (mostly null).

```
    _____( Users on 172.17.0.2 )_____
index: 0x1 RID: 0x3f2 acb: 0x00000011 Account: games      Name: games      Desc: (null)
index: 0x2 RID: 0x1f5 acb: 0x00000011 Account: nobody     Name: nobody     Desc: (null)
index: 0x3 RID: 0x4ba acb: 0x00000011 Account: bind       Name: (null)     Desc: (null)
index: 0x4 RID: 0x402 acb: 0x00000011 Account: proxy      Name: proxy      Desc: (null)
index: 0x5 RID: 0x4b4 acb: 0x00000011 Account: syslog     Name: (null)     Desc: (null)
index: 0x6 RID: 0xbba acb: 0x00000010 Account: user       Name: just a user,111,, Desc: (null)
index: 0x7 RID: 0x42a acb: 0x00000011 Account: www-data   Name: www-data   Desc: (null)
index: 0x8 RID: 0x3e8 acb: 0x00000011 Account: root       Name: root       Desc: (null)
index: 0x9 RID: 0x3fa acb: 0x00000011 Account: news       Name: news       Desc: (null)
index: 0xa RID: 0x4c0 acb: 0x00000011 Account: postgres   Name: PostgreSQL administrator,,, Desc: (null)
index: 0xb RID: 0x3ec acb: 0x00000011 Account: bin        Name: bin        Desc: (null)
index: 0xc RID: 0x3f8 acb: 0x00000011 Account: mail      Name: mail      Desc: (null)
index: 0xd RID: 0x4c6 acb: 0x00000011 Account: distccd   Name: (null)     Desc: (null)
index: 0xe RID: 0x4ca acb: 0x00000011 Account: proftpd   Name: (null)     Desc: (null)
index: 0xf RID: 0x4b2 acb: 0x00000011 Account: dhcp      Name: (null)     Desc: (null)
index: 0x10 RID: 0x3ea acb: 0x00000011 Account: daemon   Name: daemon   Desc: (null)
index: 0x11 RID: 0x4b8 acb: 0x00000011 Account: sshd     Name: (null)     Desc: (null)
index: 0x12 RID: 0x3f4 acb: 0x00000011 Account: man       Name: man       Desc: (null)
index: 0x13 RID: 0x3f6 acb: 0x00000011 Account: lp        Name: lp        Desc: (null)
index: 0x14 RID: 0x4c2 acb: 0x00000011 Account: mysql    Name: MySQL Server,,, Desc: (null)
index: 0x15 RID: 0x43a acb: 0x00000011 Account: gnats   Name: Gnats Bug-Reporting System (admin) Desc: (null)
index: 0x16 RID: 0x4b0 acb: 0x00000011 Account: libuuid  Name: (null)     Desc: (null)
index: 0x17 RID: 0x42c acb: 0x00000011 Account: backup   Name: backup   Desc: (null)
index: 0x18 RID: 0xbb8 acb: 0x00000010 Account: msfadmin Name: msfadmin,,, Desc: (null)
index: 0x19 RID: 0x4c8 acb: 0x00000011 Account: telnetd Name: (null)     Desc: (null)
index: 0x1a RID: 0x3ee acb: 0x00000011 Account: sys      Name: sys      Desc: (null)
index: 0x1b RID: 0x4b6 acb: 0x00000011 Account: klog    Name: (null)     Desc: (null)
index: 0x1c RID: 0x4bc acb: 0x00000011 Account: postfix  Name: (null)     Desc: (null)
index: 0x1d RID: 0xbbe acb: 0x00000011 Account: service  Name:,,,     Desc: (null)
index: 0x1e RID: 0x434 acb: 0x00000011 Account: list    Name: Mailing List Manager Desc: (null)
index: 0x1f RID: 0x436 acb: 0x00000011 Account: irc     Name: ircd     Desc: (null)
index: 0x20 RID: 0x4be acb: 0x00000011 Account: ftp     Name: (null)     Desc: (null)
index: 0x21 RID: 0x4c4 acb: 0x00000011 Account: tomcat55 Name: (null)     Desc: (null)
index: 0x22 RID: 0x3f0 acb: 0x00000011 Account: sync    Name: sync     Desc: (null)
index: 0x23 RID: 0x3fc acb: 0x00000011 Account: uucp    Name: uucp     Desc: (null)
```

lists of discovered user accounts with their Relative Identifiers (RIDs) in the format user:[username] rid:[hex_value], including common system accounts like root (0x3e8), www-data, mysql, postfix, sshd, and others.

```
user:[games] rid:[0x3f2]
user:[nobody] rid:[0x1f5]
user:[bind] rid:[0x4ba]
user:[proxy] rid:[0x402]
user:[syslog] rid:[0x4b4]
user:[user] rid:[0xbba]
user:[www-data] rid:[0x42a]
user:[root] rid:[0x3e8]
user:[news] rid:[0x3fa]
user:[postgres] rid:[0x4c0]
user:[bin] rid:[0x3ec]
user:[mail] rid:[0x3f8]
user:[distccd] rid:[0x4c6]
user:[proftpd] rid:[0x4ca]
user:[dhcp] rid:[0x4b2]
user:[daemon] rid:[0x3ea]
user:[sshd] rid:[0x4b8]
user:[man] rid:[0x3f4]
user:[lp] rid:[0x3f6]
user:[mysql] rid:[0x4c2]
user:[gnats] rid:[0x43a]
user:[libuuid] rid:[0x4b0]
user:[backup] rid:[0x42c]
user:[msfadmin] rid:[0xbb8]
user:[telnetd] rid:[0x4c8]
user:[sys] rid:[0x3ee]
user:[klog] rid:[0x4b6]
user:[postfix] rid:[0x4bc]
user:[service] rid:[0xbdc]
user:[list] rid:[0x434]
user:[irc] rid:[0x436]
user:[ftp] rid:[0x4be]
user:[tomcat55] rid:[0x4c4]
user:[sync] rid:[0x3f0]
user:[uucp] rid:[0x3fc]
enum4linux complete on Fri Dec 19 14:47:12 2025
```

Get the machine list

```
enum4linux -M 172.17.0.2
```

- **enum4linux**: A Perl-based tool that wraps Samba utilities (like rpcclient, net, nmblookup) to extract data from Windows or Samba systems, similar to the old Windows tool enum.exe.
- **M**: The option to specifically **get the machine list** — it attempts to enumerate computer/machine accounts on the target (e.g., domain-joined workstations or servers) via techniques like RID cycling or querying domain/machine SIDs.
- **172.17.0.2**: The target IP (in your context, likely the vulnerable Metasploitable 2 machine).

```

$ enum4linux -M 172.17.0.2
Starting enum4linux v0.9.1 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Fri Dec 19 15:07:48 2025
[+] To boldly go where no
    shall has gone before

[+] ( Target Information )

Target ..... 172.17.0.2
ID Range ..... 500-550,1000-1050
Username .....
Password .....
Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none
    the matrix has you
    follow the white rabbit.
[+] ( Enumerating Workgroup/Domain on 172.17.0.2 )
    Knock Knock

+[+] Got domain/workgroup name: WORKGROUP

[+] ( Session Check on 172.17.0.2 )

+[+] Server 172.17.0.2 allows sessions using username '', password ''
    Smbnml
[+] ( Getting domain SID for 172.17.0.2 )

Domain Name: WORKGROUP
Domain Sid: (NULL SID)

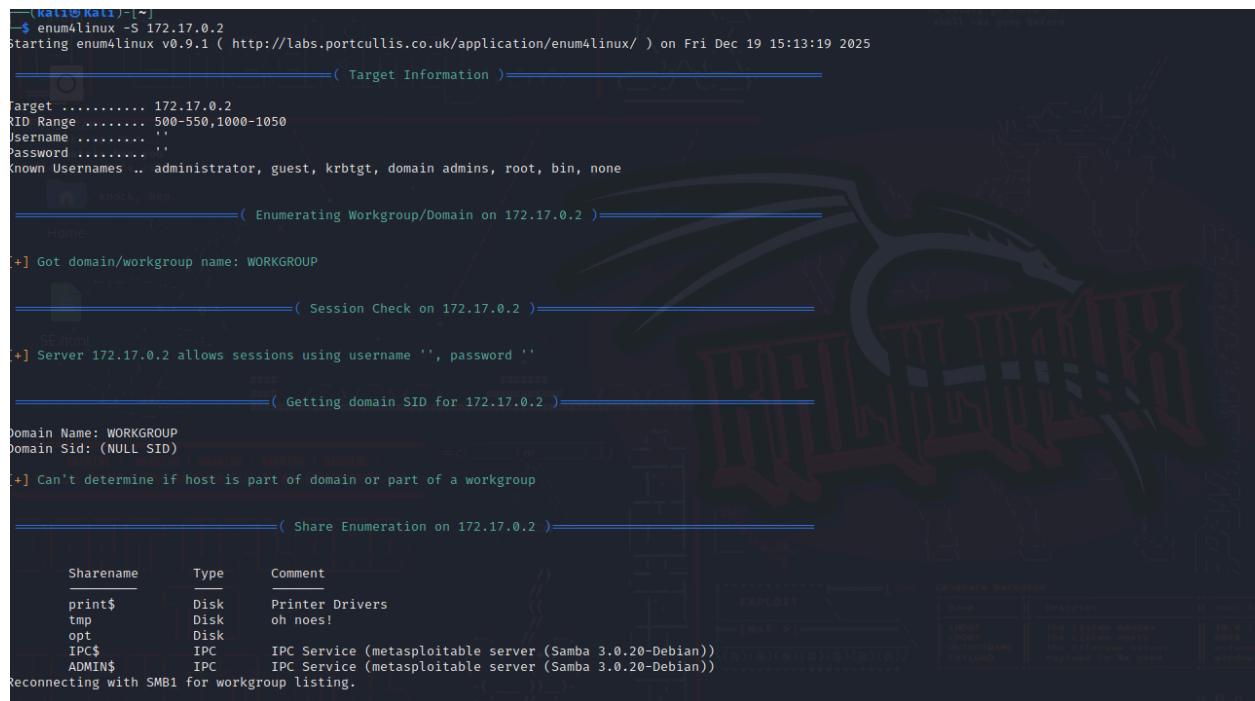
+[+] Can't determine if host is part of domain or part of a workgroup
    You can upload output/backdoor file to http://www.hackthebox.com
[+] ( Machine Enumeration on 172.17.0.2 )

[E] Not implemented in this version of enum4linux.

```

Get sharelist

```
enum4linux -S 172.17.0.2
```



Kali@Kali:~\$ enum4linux -S 172.17.0.2
 Starting enum4linux v0.9.1 (http://labs.portcullis.co.uk/application/enum4linux/) on Fri Dec 19 15:13:19 2025
 (Target Information)
 Target 172.17.0.2
 RID Range 500-550,1000-1050
 Username ::
 Password ::
 Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none
 (Enumerating Workgroup/Domain on 172.17.0.2)
 Got domain/workgroup name: WORKGROUP
 (Session Check on 172.17.0.2)
 Server 172.17.0.2 allows sessions using username '', password ''
 (Getting domain SID for 172.17.0.2)
 Domain Name: WORKGROUP
 Domain Sid: (NULL SID)
 Can't determine if host is part of domain or part of a workgroup
 (Share Enumeration on 172.17.0.2)

Sharename	Type	Comment
print\$	Disk	Printer Drivers
tmp	Disk	oh noes!
opt	Disk	
IPC\$	IPC	IPC Service (metasploitable server (Samba 3.0.20-Debian))
ADMIN\$	IPC	IPC Service (metasploitable server (Samba 3.0.20-Debian))

 Reconnecting with SMB1 for workgroup listing.

The Samba service here has known vulnerabilities, including:

- Anonymous access to certain shares (like tmp).
- Potential for exploits like symlink traversal to gain root filesystem access.
- The famous "username map script" command execution vulnerability (CVE-2007-2447) in Samba 3.0.20–3.0.25.

```

[+] Attacking the system ...
wake up, Neo ...
the Sharename you follow
----- Sharename Type Comment
print$ Disk Printer Drivers
tmp Disk oh noes!
opt Disk
IPC$ IPC IPC Service (metasploitable server (Samba 3.0.20-Debian))
ADMIN$ IPC IPC Service (metasploitable server (Samba 3.0.20-Debian))
Reconnecting with SMB1 for workgroup listing.

----- Server Comment
----- Workgroup Master
----- WORKGROUP METASPLOITABLE

[+] Attempting to map shares on 172.17.0.2

//172.17.0.2/print$      Mapping: DENIED Listing: N/A Writing: N/A
//172.17.0.2/tmp          Mapping: OK Listing: OK Writing: N/A
//172.17.0.2/opt          Mapping: DENIED Listing: N/A Writing: N/A
[E] Can't understand response:

NT_STATUS_NETWORK_ACCESS_DENIED listing \*
//172.17.0.2/IPC$         Mapping: N/A Listing: N/A Writing: N/A
//172.17.0.2/ADMIN$        Mapping: DENIED Listing: N/A Writing: N/A
enum4linux complete on Fri Dec 19 15:13:19 2025

```

Get password policy information

enum4linux -P 172.17.0.2

```

[+] Attaching to 172.17.0.2 using a NULL share
[+] Trying protocol 139/SMB ...
[+] Found domain(s):
    [+] METASPLOITABLE
    [+] Builtin

[+] Password Info for Domain: METASPLOITABLE

    [+] Minimum password length: 5
    [+] Password history length: None
    [+] Maximum password age: Not Set
    [+] Password Complexity Flags: 000000

    [+] Domain Refuse Password Change: 0
    [+] Domain Password Store Cleartext: 0
    [+] Domain Password Lockout Admins: 0
    [+] Domain Password No Clear Change: 0
    [+] Domain Password No Anon Change: 0
    [+] Domain Password Complex: 0

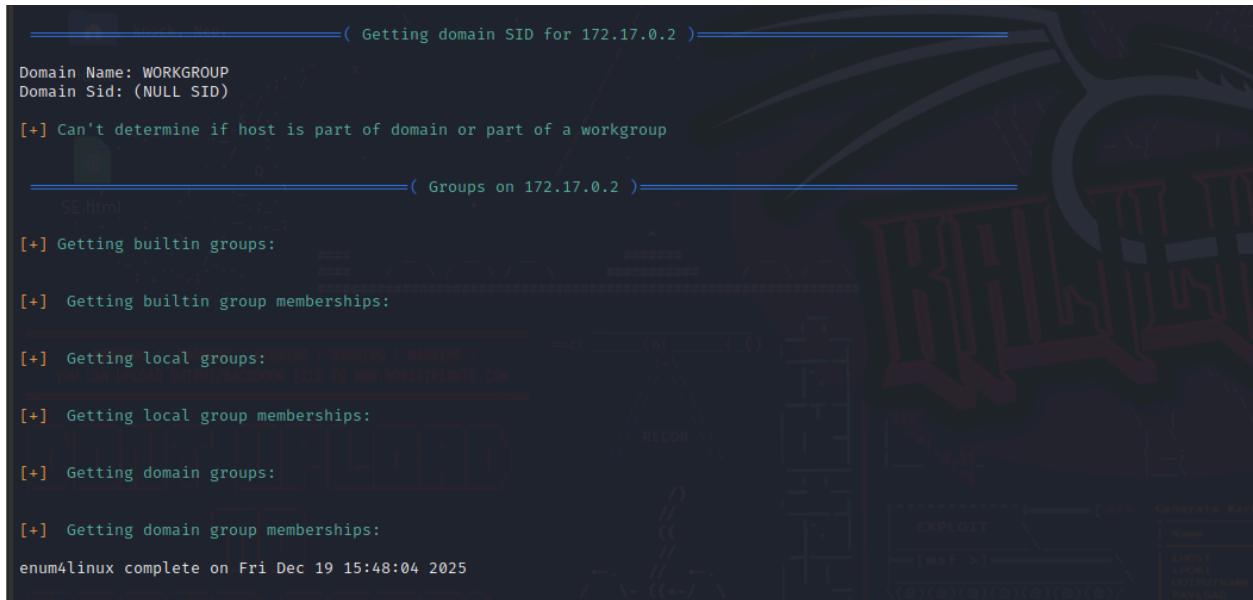
    [+] Minimum password age: None
    [+] Reset Account Lockout Counter: 30 minutes
    [+] Locked Account Duration: 30 minutes
    [+] Account Lockout Threshold: None
    [+] Forced Log off Time: Not Set

[V] Attempting to get Password Policy info with command: rpcclient -W 'WORKGROUP' -U ''%'' '172.17.0.2' -c "getdompinfo" 2>&1

```

Get the group and member list

```
enum4linux -G 172.17.0.2
```



```
knock -Rn _____( Getting domain SID for 172.17.0.2 )_____
Domain Name: WORKGROUP
Domain Sid: (NULL SID)

[+] Can't determine if host is part of domain or part of a workgroup

SE.html _____( Groups on 172.17.0.2 )_____
[+] Getting builtin groups:
[+] Getting builtin group memberships:
[+] Getting local groups: [REDACTED] YOU CAN UPLOAD INPUT/OUTPUT FILES TO http://tiny.cc/meyaros.com
[+] Getting local group memberships:
[+] Getting domain groups:
[+] Getting domain group memberships:
enum4linux complete on Fri Dec 19 15:48:04 2025
```

**Do all simple enumeration (-U -S -G -P -r -o -n -i) i.e
Aggressive enumeration**

```
enum4linux -A 172.17.0.2
```

```

[kali㉿Kali)-[~]
$ enum4linux -a 172.17.0.2
Starting enum4linux v0.9.1 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Fri Dec 19 15:57:48 2025
_____( Target Information )_____
Target ..... 172.17.0.2
RID Range ..... 500-550,1000-1050
Username .....
Password .....
Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none
_____( Enumerating Workgroup/Domain on 172.17.0.2 )_____
[+] Got domain/workgroup name: WORKGROUP
_____( Nbtstat Information for 172.17.0.2 )_____
SEhlm
Looking up status of 172.17.0.2
METASPLIOTABLE <00> - B <ACTIVE> Workstation Service
METASPLIOTABLE <03> - B <ACTIVE> Messenger Service
METASPLIOTABLE <20> - B <ACTIVE> File Server Service
__MSBROWSE__. <01> - <GROUP> B <ACTIVE> Master Browser
WORKGROUP <00> - <GROUP> B <ACTIVE> Domain/Workgroup Name
WORKGROUP <1d> - B <ACTIVE> Master Browser
WORKGROUP <1e> - <GROUP> B <ACTIVE> Browser Service Elections
MAC Address = 00-00-00-00-00-00
_____( Session Check on 172.17.0.2 )_____
[+] Server 172.17.0.2 allows sessions using username '', password ''

```

```

index: 0x23 RID: 0x3fc acb: 0x00000011 Account: uucp    Name: uucp    Desc: (null)
user:[games] rid:[0x3f2]
user:[nobody] rid:[0x1f5]
user:[bind] rid:[0x4ba]
user:[proxy] rid:[0x4a0]
user:[syslog] rid:[0x4b4]
user:[user] rid:[0x0b8]
user:[www-data] rid:[0x42a]
user:[root] rid:[0x3e8]
user:[news] rid:[0x3fa]
user:[postgres] rid:[0x4c0]
user:[bin] rid:[0x3ec]
user:[mail] rid:[0x3f8]
user:[distcc] rid:[0x4c6]
user:[proftpd] rid:[0x4ca]
user:[dhcp] rid:[0x4b2]
user:[daemon] rid:[0x3ea]
user:[sshd] rid:[0x4b8]
user:[man] rid:[0x3f4]
user:[lp] rid:[0x3f6]
user:[mysql] rid:[0x4c2]
user:[ignats] rid:[0x43a]
user:[libuuid] rid:[0x4b0]
user:[backup] rid:[0x42c]
user:[msfadmin] rid:[0xbb8]
user:[telnetd] rid:[0x4c8]
user:[sys] rid:[0x3ee]
user:[klog] rid:[0x4b6]
user:[postfix] rid:[0x4bc]
user:[service] rid:[0xb0c]
user:[list] rid:[0x434]
user:[irc] rid:[0x436]
user:[ftp] rid:[0x4be]
user:[tomcat55] rid:[0x4c4]
user:[sync] rid:[0x3f0]
user:[uucp] rid:[0x3fe]

```

```

( Share Enumeration on 172.17.0.2 )
[+] Sharename      Type      Comment
  print$          Disk      Printer Drivers
  tmp             Disk      oh noes!
  opt             Disk
  IPC$           IPC       IPC Service (metasploitable server (Samba 3.0.20-Debian))
  ADMIN$         IPC       IPC Service (metasploitable server (Samba 3.0.20-Debian))

Reconnecting with SMB1 for workgroup listing.
[+] Server        Comment
[+] Workgroup     Master
[+] WORKGROUP    METASPLOITABLE

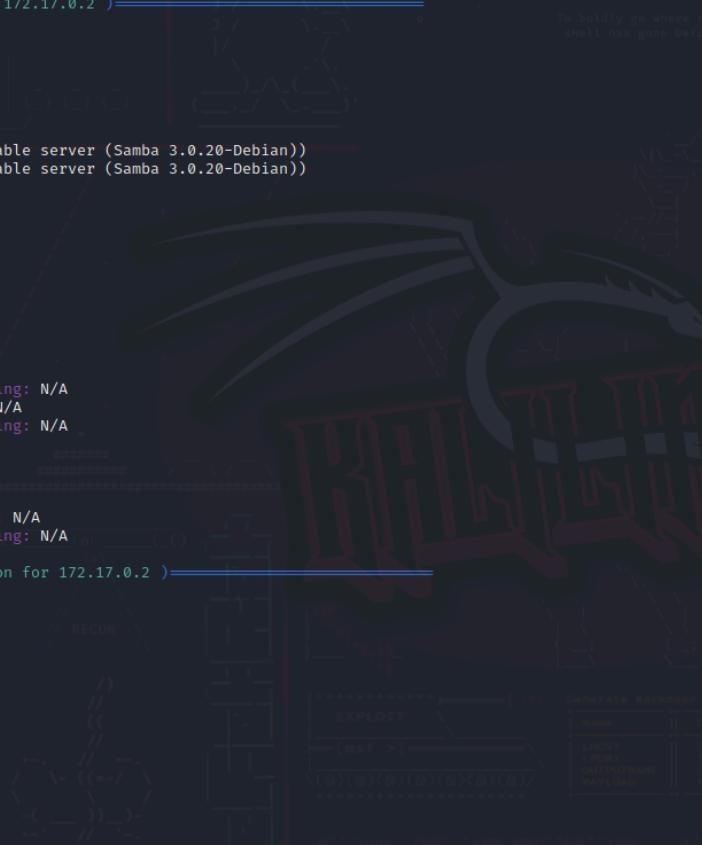
[+] Attempting to map shares on 172.17.0.2
//172.17.0.2/print$   Mapping: DENIED Listing: N/A Writing: N/A
//172.17.0.2/tmp     Mapping: OK Listing: OK Writing: N/A
//172.17.0.2/opt     Mapping: DENIED Listing: N/A Writing: N/A

[E] Can't understand response:
NT_STATUS_NETWORK_ACCESS_DENIED listing \*
//172.17.0.2/IPC$   Mapping: N/A Listing: N/A Writing: N/A
//172.17.0.2/ADMIN$ Mapping: DENIED Listing: N/A Writing: N/A

( Password Policy Information for 172.17.0.2 )

[+] Attaching to 172.17.0.2 using a NULL share
[+] Trying protocol 139/SMB...
[+] Found domain(s):
  [+] METASPLOITABLE
  [+] Builtin
[+] Password Info for Domain: METASPLOITABLE

```



```

( Users on 172.17.0.2 via RID cycling (RIDS: 500-550,1000-1050 ) )

[I] Found new SIDs:
S-1-5-21-1042354039-2475377354-766472396

[+] Enumerating users using SID S-1-5-21-1042354039-2475377354-766472396 and logon username '', password ''
follow the white rabbit
S-1-5-21-1042354039-2475377354-766472396-500 METASPLOITABLE\Administrator (Local User)
S-1-5-21-1042354039-2475377354-766472396-501 METASPLOITABLE\nobody (Local User)
S-1-5-21-1042354039-2475377354-766472396-512 METASPLOITABLE\Domain Admins (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-513 METASPLOITABLE\Domain Users (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-514 METASPLOITABLE\Domain Guests (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1000 METASPLOITABLE\root (Local User)
S-1-5-21-1042354039-2475377354-766472396-1001 METASPLOITABLE\root (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1002 METASPLOITABLE\daemon (Local User)
S-1-5-21-1042354039-2475377354-766472396-1003 METASPLOITABLE\daemon (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1004 METASPLOITABLE\bin (Local User)
S-1-5-21-1042354039-2475377354-766472396-1005 METASPLOITABLE\bin (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1006 METASPLOITABLE\sys (Local User)
S-1-5-21-1042354039-2475377354-766472396-1007 METASPLOITABLE\sys (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1008 METASPLOITABLE\sync (Local User)
S-1-5-21-1042354039-2475377354-766472396-1009 METASPLOITABLE\adain (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1010 METASPLOITABLE\games (Local User)
S-1-5-21-1042354039-2475377354-766472396-1011 METASPLOITABLE\utility (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1012 METASPLOITABLE\man (Local User)
S-1-5-21-1042354039-2475377354-766472396-1013 METASPLOITABLE\disk (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1014 METASPLOITABLE\lp (Local User)
S-1-5-21-1042354039-2475377354-766472396-1015 METASPLOITABLE\lp (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1016 METASPLOITABLE\mail (Local User)
S-1-5-21-1042354039-2475377354-766472396-1017 METASPLOITABLE\mail (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1018 METASPLOITABLE\news (Local User)
S-1-5-21-1042354039-2475377354-766472396-1019 METASPLOITABLE\news (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1020 METASPLOITABLE\vuucp (Local User)
S-1-5-21-1042354039-2475377354-766472396-1021 METASPLOITABLE\vuucp (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1025 METASPLOITABLE\mail (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1026 METASPLOITABLE\proxy (Local User)
S-1-5-21-1042354039-2475377354-766472396-1027 METASPLOITABLE\proxy (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1031 METASPLOITABLE\kmem (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1041 METASPLOITABLE\dialout (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1043 METASPLOITABLE\fax (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1045 METASPLOITABLE\voice (Domain Group)

```



SMBCIINET

This is like a big instruction book for a magic door tool called "smbclient". It tells you all the secret codes you can type to open doors to shared folders on another computer.

```
(kali㉿Kali)-[~]
$ smbclient --help
Usage: smbclient [OPTIONS] service <password>
  -M, --message=HOST          Send message
  -I, --ip-address=IP         Use this IP to connect to
  -E, --stderr                Write messages to stderr instead of stdout
  -L, --list=HOST              Get a list of shares available on a host
  -T, --tar=<c|x>IXFvgbNan   Command line tar
  -D, --directory=DIR         Start from directory
  -c, --command=STRING        Execute semicolon separated commands
  -b, --send-buffer=BYTES     Changes the transmit/send buffer
  -t, --timeout=SECONDS       Changes the per-operation timeout
  -p, --port=PORT              Port to connect to
  -g, --grepable               Produce grepable output
  -q, --quiet                  Suppress help message
  -B, --browse                 Browse SMB servers using DNS

Help options:
  -?, --help                   Show this help message
  --usage                     Display brief usage message

Common Samba options:
  -d, --debuglevel=DEBUGLEVEL Set debug level
  --debug-stdout               Send debug output to standard output
  -s, --configfile=CONFIGFILE Use alternative configuration file
  --option=name=value          Set smb.conf option from command line
  -l, --log-basename=LOGFILEBASE WARNING: This option is DEPRECATED
  --leak-report                enable talloc leak reporting on exit
  --leak-report-full           enable full talloc leak reporting on exit

Connection options:
  -R, --name-resolve=NAME-RESOLVE-ORDER Use these name resolution services only
  -O, --socket-options=SOCKETOPTIONS    socket options to use
  -m, --max-protocol=MAXPROTOCOL      Set max protocol level
  -n, --netbiosname=NETBIOSNAME      Primary netbios name
  --netbios-scope=SCOPE               Use this Netbios scope
  -W, --workgroup=WORKGROUP          Set the workgroup name
  --realm=REALM                      Set the realm name

Credential options:
  -U, --user=[DOMAIN/]USERNAME[%PASSWORD] Set the network username
  -N, --no-pass                      Don't ask for a password
```

Listing all shares

```
smbclient -L //172.17.0.2/
```

You knocked on the computer's door and asked, "What folders are you sharing?" The computer answered and showed a list: print\$, tmp, opt, IPC\$, and ADMIN\$. It

even said its name is "METASPLOITABLE" and it's part of a group called "WORKGROUP".

```
(kali㉿Kali)-[~]
$ smbclient -L //172.17.0.2/
Password for [WORKGROUP\kali]:
Anonymous login successful

SE-HTML Sharename      Type      Comment
print$          Disk       Printer Drivers
tmp             Disk       oh noes!
opt             Disk
IPC$           IPC        IPC Service (metasploitable server (Samba 3.0.20-Debian))
ADMIN$          IPC        IPC Service (metasploitable server (Samba 3.0.20-Debian))

Reconnecting with SMB1 for workgroup listing.
Anonymous login successful

Server          Comment
Workgroup       Master
WORKGROUP       METASPLOITABLE
```

```
(kali㉿Kali)-[~]
$ smbclient //172.17.0.2/tmp
Password for [WORKGROUP\kali]:
Anonymous login successful
Try "help" to get a list of possible commands.
smb: \> help
```

```
smb: \> help
?          allinfo      altname      archive     backup
blocksize   cancel       case_sensitive cd          chmod
chown      close        del          deltree    dir
du          echo         exit         get         getfacl
geteas      hardlink    help         history    iosize
lcd         link        lock         lowercase  ls
l           mask        md          mget       mkdir
mkfifo     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     rmdir      rename
reput      rm           stat         symlink   setea
setmode     scopy        translate   unlock    tar
tarmode    timeout     logon       listconnect volume
vuid       wdel        tid         utimes   showconnect
tcon      tdis          !           logoff
```

"dir" which means "show me everything here". The computer showed a bunch of files and folders with funny names like .X11-unix, .ICE-unix, and some files called jsVC_up.

```
smb: \> dir
.
..
.X11-unix
.ICE-unix
.X0-lock
gconfd-msfadmin
orbit-msfadmin
684.jsvc_up
696.jsvc_up
682.jsvc_up
826.jsvc_up
810.jsvc_up
1582.jsvc_up
1823.jsvc_up

               D      0  Fri Dec 19 18:33:16 2025
               DR     0  Mon Aug 14 10:39:59 2023
               DH     0  Mon Aug 14 10:35:14 2023
               DH     0  Sun Jan 28 03:08:08 2018
               HR    11  Mon Aug 14 10:35:14 2023
               DR     0  Thu Dec 18 11:25:31 2025
               DR     0  Thu Dec 18 11:25:31 2025
               R      0  Wed Dec 17 22:57:51 2025
               R      0  Fri Dec 12 10:10:28 2025
               R      0  Mon Aug 14 10:35:26 2023
               R      0  Sun Jan 28 07:08:40 2018
               R      0  Sun Jan 28 03:54:31 2018
               R      0  Sun Jan 28 04:01:49 2018
               R      0  Sun Jan 28 02:57:44 2018

38497656 blocks of size 1024. 8471000 blocks available
```

Putting file called "paro.txt" into the folder, and you renamed it "seun.txt" while putting it in. The computer said "Done!" and now your file is sitting there with all the other files.

```
smb: \> put paro.txt seun.txt
putting file paro.txt as \seun.txt (7.3 kB/s) (average 7.3 kB/s)
smb: \> dir
.
..
.X11-unix
.ICE-unix
.X0-lock
gconfd-msfadmin
orbit-msfadmin
684.jsvc_up
696.jsvc_up
682.jsvc_up
seun.txt
826.jsvc_up
810.jsvc_up
1582.jsvc_up
1823.jsvc_up

               D      0  Fri Dec 19 18:38:59 2025
               DR     0  Mon Aug 14 10:39:59 2023
               DH     0  Mon Aug 14 10:35:14 2023
               DH     0  Sun Jan 28 03:08:08 2018
               HR    11  Mon Aug 14 10:35:14 2023
               DR     0  Thu Dec 18 11:25:31 2025
               DR     0  Thu Dec 18 11:25:31 2025
               R      0  Wed Dec 17 22:57:51 2025
               R      0  Fri Dec 12 10:10:28 2025
               R      0  Mon Aug 14 10:35:26 2023
               A     15  Fri Dec 19 18:38:59 2025
               R      0  Sun Jan 28 07:08:40 2018
               R      0  Sun Jan 28 03:54:31 2018
               R      0  Sun Jan 28 04:01:49 2018
               R      0  Sun Jan 28 02:57:44 2018

38497656 blocks of size 1024. 8470984 blocks available
```