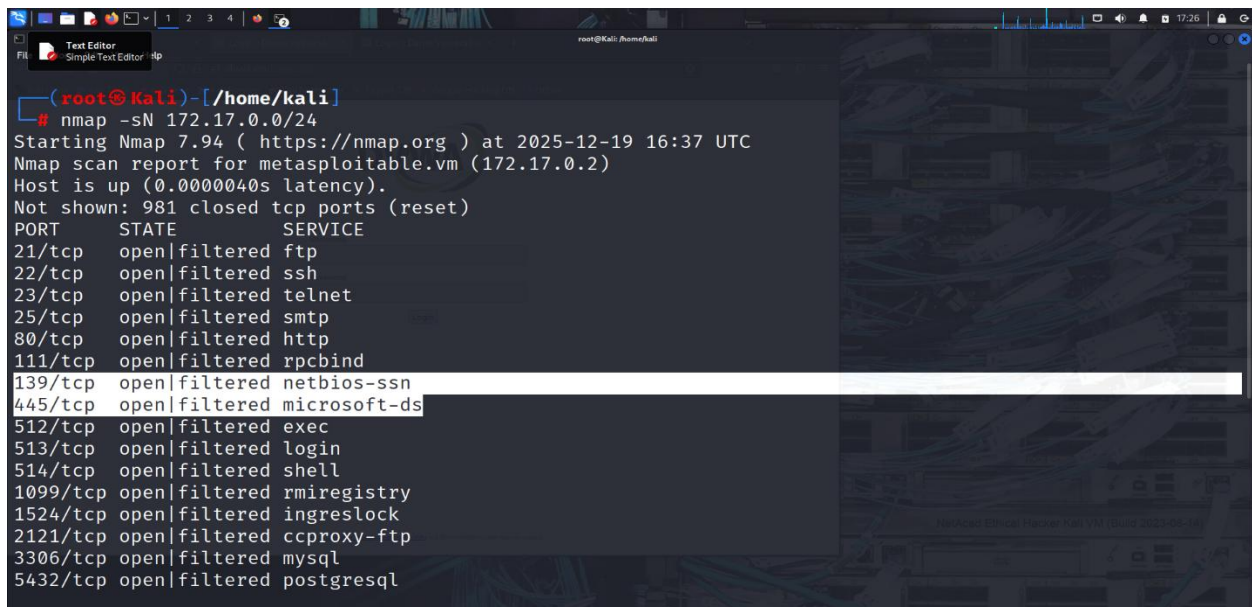


## SMB PROJECT

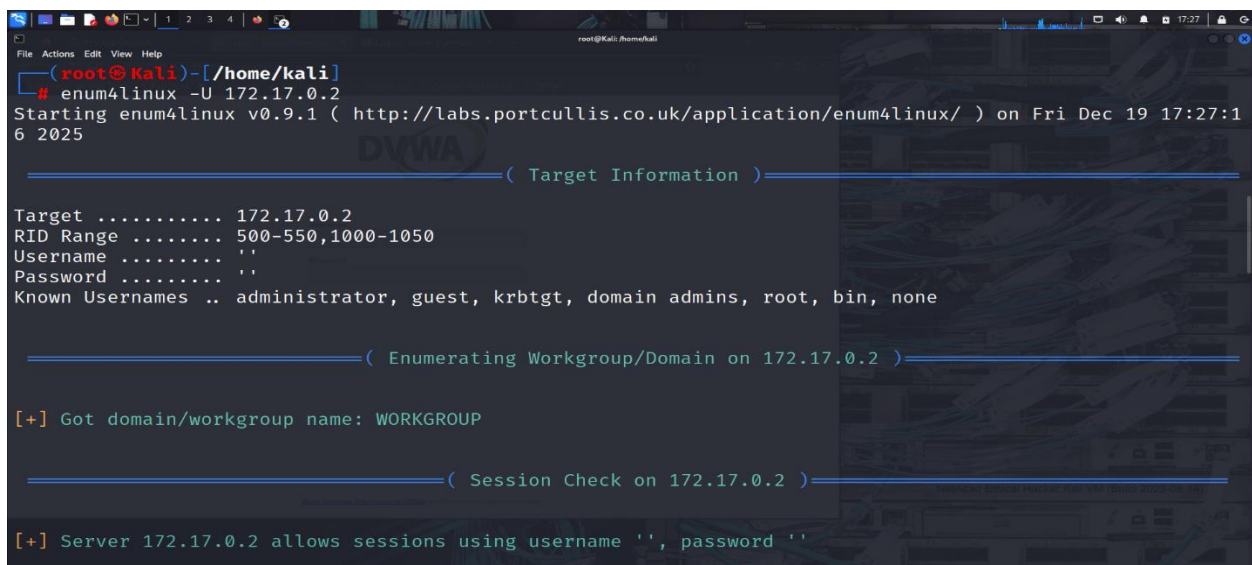
SMB, or Server Message Block, is a core network protocol for sharing files, printers, and serial ports, acting as a way for computers (Windows, macOS, Linux) to talk and access resources over a network, essentially creating a "remote file system" for shared access

1. We run a nmap scan to identify open ports and up hosts where we discovered port 139 and 445 which is our target for this SMB lab.



```
(root@kali)-[/home/kali]
# nmap -sN 172.17.0.0/24
Starting Nmap 7.94 ( https://nmap.org ) at 2025-12-19 16:37 UTC
Nmap scan report for metasploitable.vm (172.17.0.2)
Host is up (0.0000040s latency).
Not shown: 981 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
```

2. We run **enum4linux -U [ip address]** option to get user list.



```
(root@kali)-[/home/kali]
# enum4linux -U 172.17.0.2
Starting enum4linux v0.9.1 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Fri Dec 19 17:27:16 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 ''
```

```
File /home/kali View Help
root@kali: /home/kali

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: 0xbbc 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)
```

The screenshot below shows all the users that are in the domain

```
Firefox ESR
Browse the WorldWide Web
root@kali: /home/kali

===== ( 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

===== ( 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)
```

```
root@kali: /home/kali
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:[0xbbc]
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 17:27:17 2025

(root@kali)-[/home/kali]
```

3. We run **enum4linux -S [ip address]** option to get sharelist where we can enumerate what shares are available for us and they are highlighted below.

```
root@kali: /home/kali
enum4linux -S 172.17.0.2
Starting enum4linux v0.9.1 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Sun Dec 21 03:32:43 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
```



```
root@kali: /home/kali
( 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
enum4linux complete on Sun Dec 21 03:32:44 2025
```

4. We run **enum4linux -Sv [ip address]** option (known as Verbose) to move from the normal sharelist to see what mode are being used within enum4linux.

```
root@kali: /home/kali
enum4linux -Sv 172.17.0.2

[V] Dependent program "nmblookup" found in /usr/bin/nmblookup
[V] Dependent program "net" found in /usr/bin/net
[V] Dependent program "rpcclient" found in /usr/bin/rpcclient
[V] Dependent program "smbclient" found in /usr/bin/smbclient
[V] Dependent program "polenum" found in /usr/bin/polenum
[V] Dependent program "ldapsearch" found in /usr/bin/ldapsearch

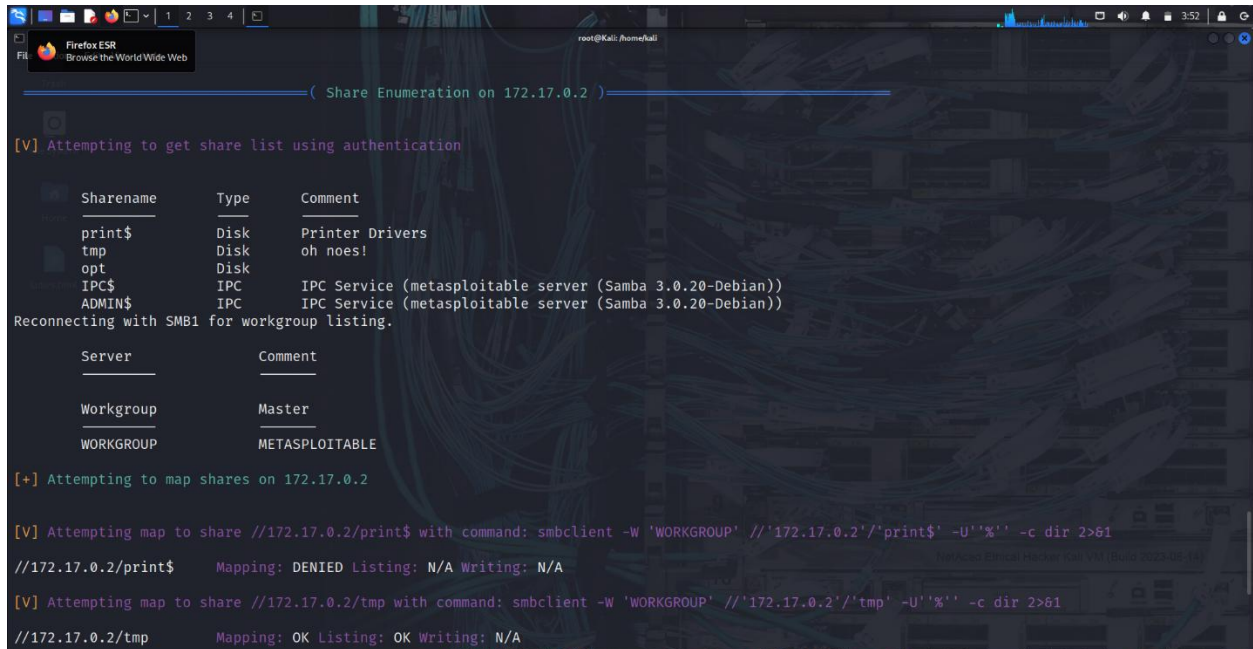
Starting enum4linux v0.9.1 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Sun Dec 21 03:49:31 2025

( 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 )
```

From the screenshot below we can get the different share like **print\$, tmp**, etc



```
( Share Enumeration on 172.17.0.2 )

[V] Attempting to get share list using authentication

  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.

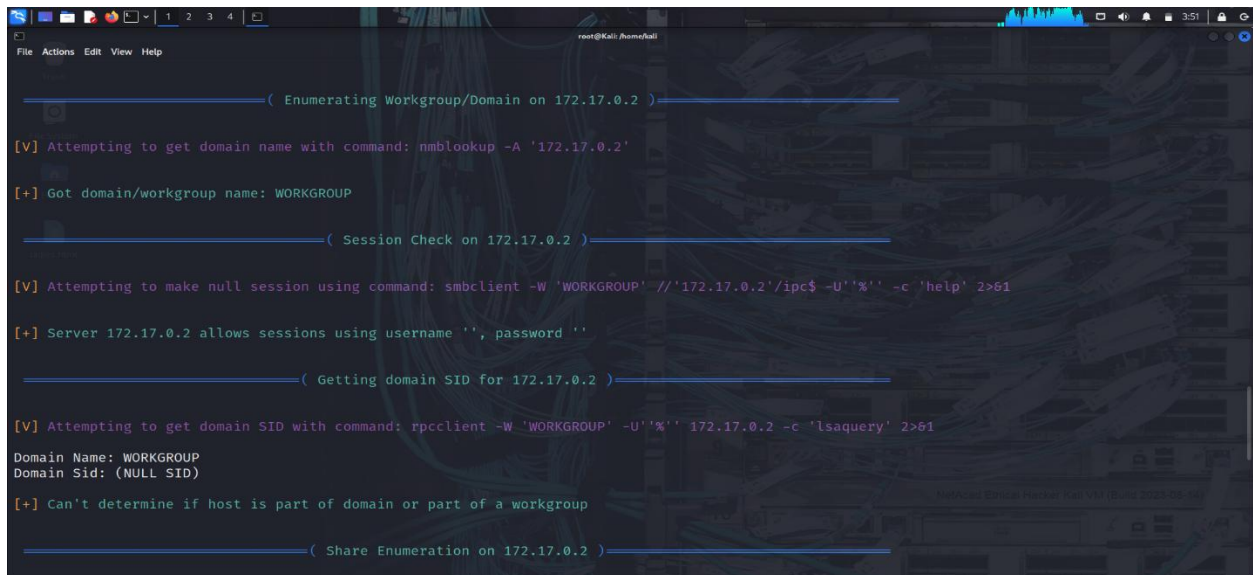
  Server      Comment
  -----
  Workgroup    Master
  WORKGROUP    METASPLOITABLE

[+] Attempting to map shares on 172.17.0.2

[V] Attempting map to share //172.17.0.2/print$ with command: smbclient -W 'WORKGROUP' //172.17.0.2/'print$' -U '%' -c dir 2>&1
//172.17.0.2/print$ Mapping: DENIED Listing: N/A Writing: N/A

[V] Attempting map to share //172.17.0.2/tmp with command: smbclient -W 'WORKGROUP' //172.17.0.2/'tmp' -U '%' -c dir 2>&1
//172.17.0.2/tmp Mapping: OK Listing: OK Writing: N/A
```

From the screenshot below we get the domain group we are attacking



```
( Enumerating Workgroup/Domain on 172.17.0.2 )

[V] Attempting to get domain name with command: nmblookup -A '172.17.0.2'

[+] Got domain/workgroup name: WORKGROUP

( Session Check on 172.17.0.2 )

[V] Attempting to make null session using command: smbclient -W 'WORKGROUP' //172.17.0.2/IPC$ -U '%' -c 'help' 2>&1

[+] Server 172.17.0.2 allows sessions using username '', password ''

( Getting domain SID for 172.17.0.2 )

[V] Attempting to get domain SID with command: rpcclient -W 'WORKGROUP' -U '%' 172.17.0.2 -c 'lsaquery' 2>&1
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 )
```

```
root@kali: /home/kali
WORKGROUP METASPLOITABLE

[+] Attempting to map shares on 172.17.0.2

[V] Attempting map to share //172.17.0.2/print$ with command: smbclient -W 'WORKGROUP' //172.17.0.2/'print$' -U '%' -c dir 2>61
//172.17.0.2/print$ Mapping: DENIED Listing: N/A Writing: N/A

[V] Attempting map to share //172.17.0.2/tmp with command: smbclient -W 'WORKGROUP' //172.17.0.2/'tmp' -U '%' -c dir 2>61
//172.17.0.2/tmp Mapping: OK Listing: OK Writing: N/A

[V] Attempting map to share //172.17.0.2/opt with command: smbclient -W 'WORKGROUP' //172.17.0.2/'opt' -U '%' -c dir 2>61
//172.17.0.2/opt Mapping: DENIED Listing: N/A Writing: N/A

[V] Attempting map to share //172.17.0.2/IPC$ with command: smbclient -W 'WORKGROUP' //172.17.0.2/'IPC$' -U '%' -c dir 2>61

[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

[V] Attempting map to share //172.17.0.2/ADMIN$ with command: smbclient -W 'WORKGROUP' //172.17.0.2/'ADMIN$' -U '%' -c dir 2>61
//172.17.0.2/ADMIN$ Mapping: DENIED Listing: N/A Writing: N/A
enum4linux complete on Sun Dec 21 03:49:32 2025

root@kali: /home/kali
```

5. We use **enum4linux -P [ip address]** to determine how the security password policy has been set for that domain.

```
root@kali: /home/kali
enum4linux
Starting enum4linux v1.7.1 (http://labs.portcullis.co.uk/application/enum4linux/) on Sun Dec 21 04:22:55 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 ''

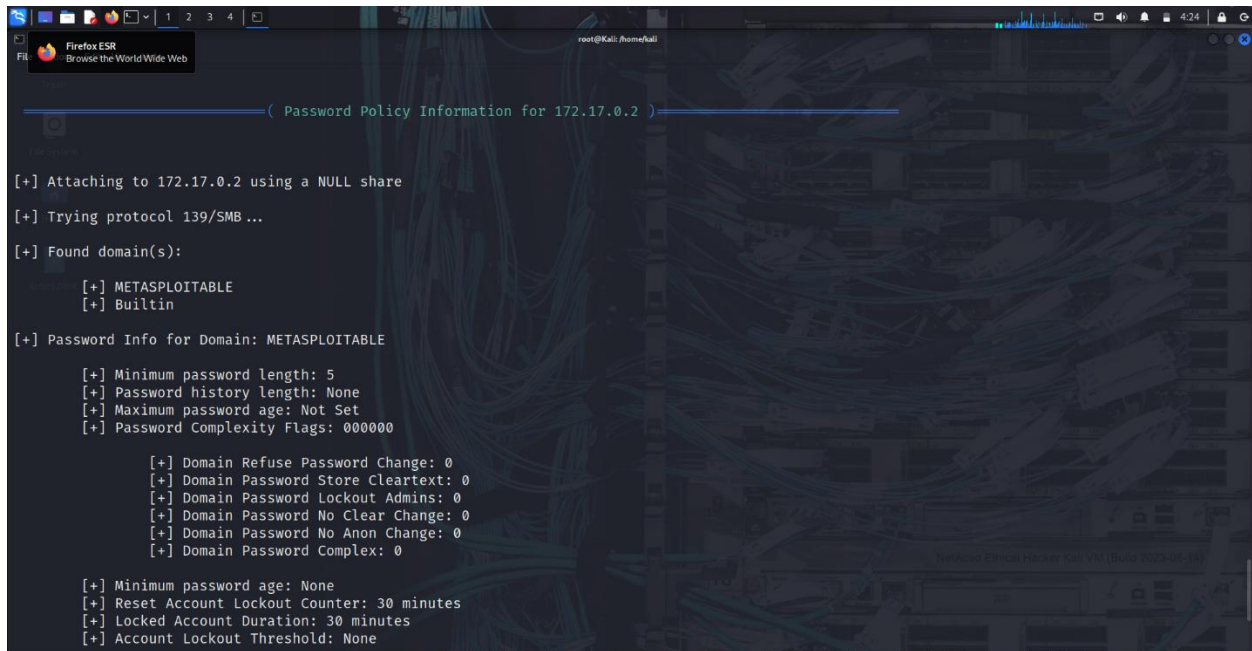
===== ( Getting domain SID for 172.17.0.2 ) =====

Domain Name: WORKGROUP
Domain Sid: (NULL SID)

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



Below we can see some of the password policies the domain is using which can tell us how vulnerable they are to attacks as they only use 5 as the minimum password length.



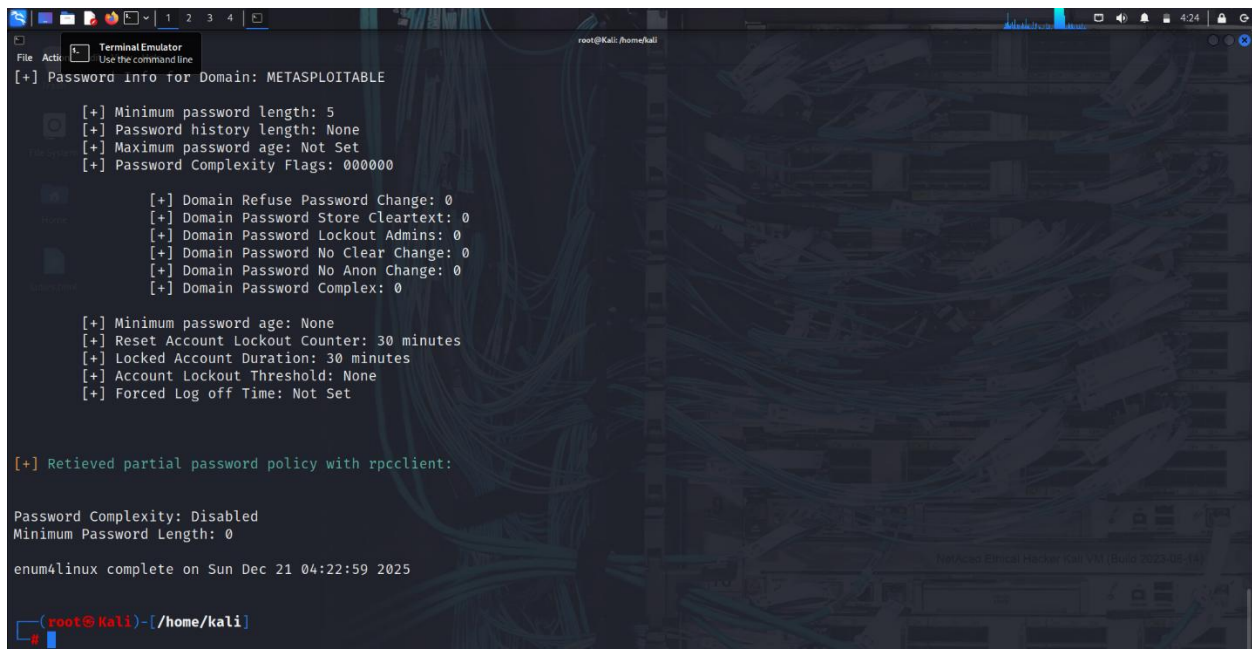
```
( Password Policy Information for 172.17.0.2 )

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

[+] Password Info for Domain: METASPLOITABLE
    [+] 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
```



```
Terminal Emulator
Use the command line

[+] 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

[+] Retrieved partial password policy with rpcclient:

Password Complexity: Disabled
Minimum Password Length: 0

enum4linux complete on Sun Dec 21 04:22:59 2025

(root@kali)~/home/kali
```

6. We use **enum4linux -a [ip address]** to perform everything at once. This command is an overall scan which can perform the whole reconnaissance in 1 command. This includes everything we have performed above and much more as it is performing

whole recon stage, like users that are on the domain, the OS, and enumerated shares etc

```
(root@kali)~/home/kali
# enum4linux -a 172.17.0.2
Starting enum4linux v0.9.1 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Sun Dec 21 04:29:16 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 ) -----

Looking up status of 172.17.0.2
METASPLOITABLE <00> - B <ACTIVE> Workstation Service
METASPLOITABLE <03> - B <ACTIVE> Messenger Service
METASPLOITABLE <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 ''

----- ( 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

----- ( OS information on 172.17.0.2 ) -----

[E] Can't get OS info with smbclient

[+] Got OS info for 172.17.0.2 from srvinfo:
METASPLOITABLE Wk Sv PrQ Unix NT SNT metasploitable server (Samba 3.0.20-Debian)
platform_id : 500
os version : 4.9
server type : 0x9a03

----- ( 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)
```



```
root@kali: /home/kali
( 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: 0xbbc 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: 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:[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:[0xbbc]
user:[list] rid:[0x434]
user:[irc] rid:[0x436]
```

```
File Actions Edit View Help
user:[uucp] rid:[0x3fc]

( 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
```

```
File Acti Terminal Emulator
Use the command line

( 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

    [+] 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
```



```
root@kali: /home/hali

Password Complexity: Disabled
Minimum Password Length: 0

===== ( Groups on 172.17.0.2 ) =====

[+] Getting builtin groups:

[+] Getting builtin group memberships:

[+] Getting local groups:

[+] Getting local group memberships:

[+] Getting domain groups:

[+] Getting domain group memberships:

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

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

```
root@kali: /home/hali

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

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

[+] Enumerating users using SID S-1-5-21-1042354039-2475377354-766472396 and logon username '', password ''

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 User)
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\adm (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1010 METASPLOITABLE\games (Local User)
S-1-5-21-1042354039-2475377354-766472396-1011 METASPLOITABLE\tty (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)
```



```
root@kali: /home/kali
File Actions Edit View Help
S-1-5-21-1042354039-2475377354-766472396-1008 METASPLOITABLE\sync (Local User)
S-1-5-21-1042354039-2475377354-766472396-1009 METASPLOITABLE\adm (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1010 METASPLOITABLE\games (Local User)
S-1-5-21-1042354039-2475377354-766472396-1011 METASPLOITABLE\tty (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\wuwp (Local User)
S-1-5-21-1042354039-2475377354-766472396-1021 METASPLOITABLE\wuwp (Domain Group)
S-1-5-21-1042354039-2475377354-766472396-1025 METASPLOITABLE\man (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\dialog (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)
S-1-5-21-1042354039-2475377354-766472396-1049 METASPLOITABLE\cdrom (Domain Group)

( Getting printer info for 172.17.0.2 )

No printers returned.

enum4linux complete on Sun Dec 21 04:29:39 2025

(root@kali) - [ /home/kali ]
```

7. This will help us to list the shares available on the target host

```
( Getting printer info for 172.17.0.2 )

No printers returned.

enum4linux complete on Sun Dec 21 04:29:39 2025

(root@kali) - [ /home/kali ]
# smbclient -L //172.17.0.2/
Password for [WORKGROUP\root]:
Anonymous login successful

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

(root@kali) - [ /home/kali ]
```

8. From the screenshot below we create a virus, and we put it into the host machine and masquerade it as **group\_work.text**

