

# Reverse Engineering and Exploitation

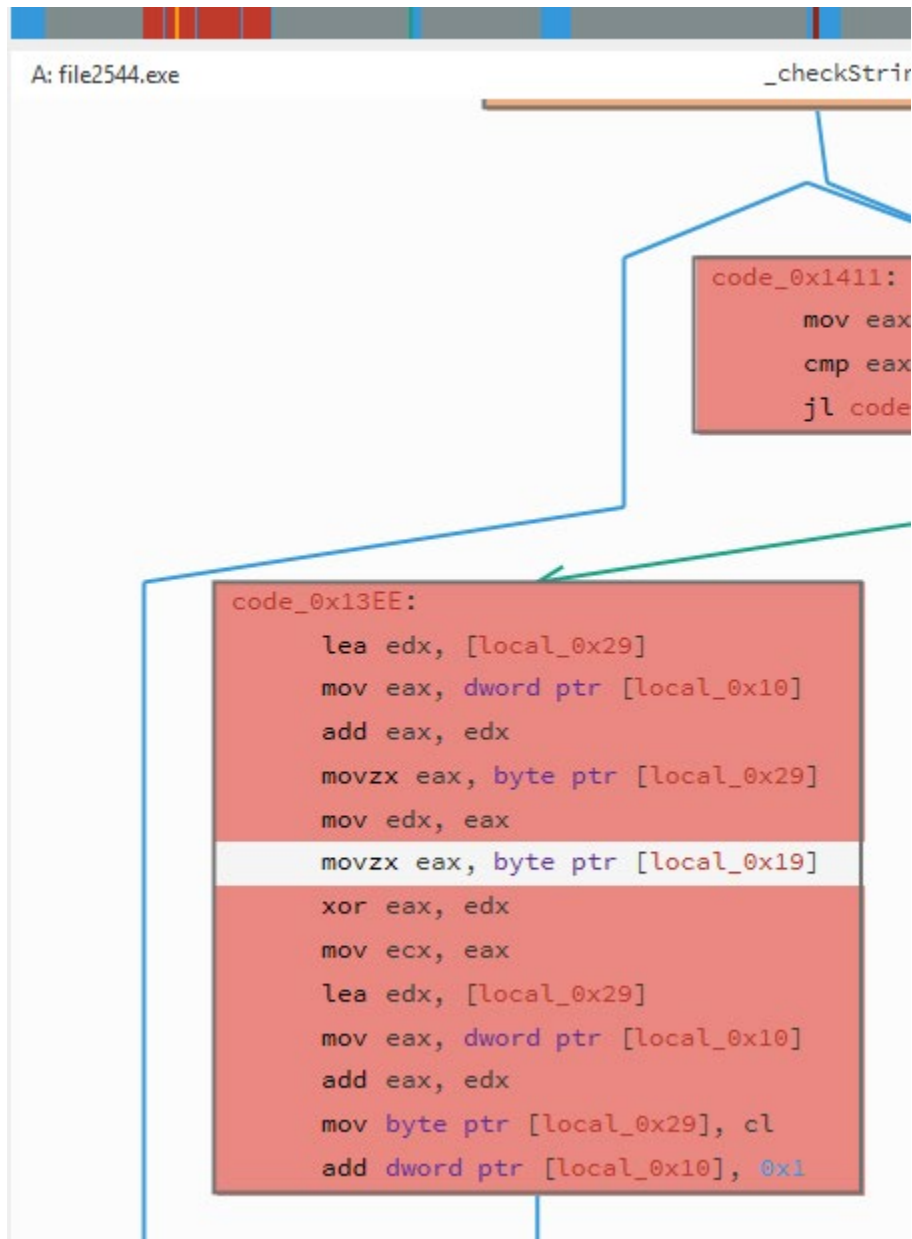
## Task 2 – Analyze a Related Suspicious File

In Relyze we see in code\_0x13EE:

xor eax, edx

and just above it

movzx eax, byte ptr [local\_0x19]



## Reverse Engineering and Exploitation

### Task 2 – Analyze a Related Suspicious File

Search local\_0x19 it brings you to what appears could be an obfuscated password

```
push ebp
mov ebp, esp
sub esp, 0x38
mov dword ptr [local_0x14], 0x10
mov byte ptr [local_0x19], 0x41
mov byte ptr [local_0x29], 0x11
mov byte ptr [local_0x28], 0x20
mov byte ptr [local_0x27], 0x32
mov byte ptr [local_0x26], 0x32
mov byte ptr [local_0x25], 0x36
mov byte ptr [local_0x24], 0x2E
mov byte ptr [local_0x23], 0x33
mov byte ptr [local_0x22], 0x25
mov byte ptr [local_0x21], 0x12
mov byte ptr [local_0x20], 0x35
mov byte ptr [local_0x1F], 0x28
mov byte ptr [local_0x1E], 0x2D
mov byte ptr [local_0x1D], 0x2D
mov byte ptr [local_0x1C], 0x12
mov byte ptr [local_0x1B], 0x34
mov byte ptr [local_0x1A], 0x39
mov dword ptr [local_0x10], 0x0
jmp code_0x1411
```

# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

### Crack and Decrypt the Password

Search for xor and key

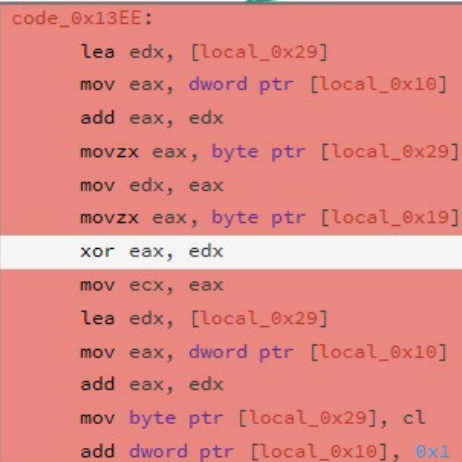
Found in 0x13EE:

xor eax, edx

one will be the data

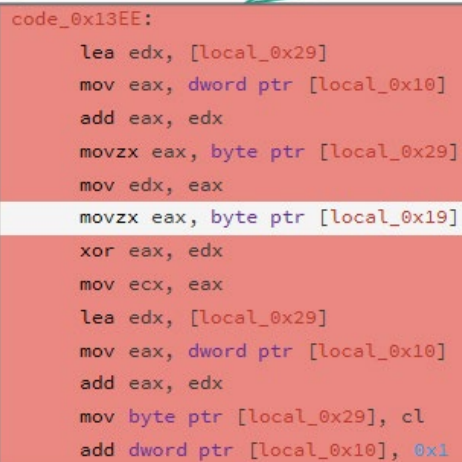
one will be the key

work backwards to determine which is which



```
code_0x13EE:
    lea edx, [local_0x29]
    mov eax, dword ptr [local_0x10]
    add eax, edx
    movzx eax, byte ptr [local_0x29]
    mov edx, eax
    movzx eax, byte ptr [local_0x19]
    xor eax, edx
    mov ecx, eax
    lea edx, [local_0x29]
    mov eax, dword ptr [local_0x10]
    add eax, edx
    mov byte ptr [local_0x29], cl
    add dword ptr [local_0x10], 0x1
```

One step above you can see movzx eax



```
code_0x13EE:
    lea edx, [local_0x29]
    mov eax, dword ptr [local_0x10]
    add eax, edx
    movzx eax, byte ptr [local_0x29]
    mov edx, eax
    movzx eax, byte ptr [local_0x19]
    xor eax, edx
    mov ecx, eax
    lea edx, [local_0x29]
    mov eax, dword ptr [local_0x10]
    add eax, edx
    mov byte ptr [local_0x29], cl
    add dword ptr [local_0x10], 0x1
```

Follow the path to local\_0x19 in the boxes above

# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

```
push ebp
mov ebp, esp
sub esp, 0x38
mov dword ptr [local_0x14], 0x10
mov byte ptr [local_0x19], 0x41
mov byte ptr [local_0x29], 0x11
mov byte ptr [local_0x28], 0x20
mov byte ptr [local_0x27], 0x32
mov byte ptr [local_0x26], 0x32
mov byte ptr [local_0x25], 0x36
mov byte ptr [local_0x24], 0x2E
mov byte ptr [local_0x23], 0x33
mov byte ptr [local_0x22], 0x25
mov byte ptr [local_0x21], 0x12
mov byte ptr [local_0x20], 0x35
mov byte ptr [local_0x1F], 0x28
mov byte ptr [local_0x1E], 0x2D
mov byte ptr [local_0x1D], 0x2D
mov byte ptr [local_0x1C], 0x12
mov byte ptr [local_0x1B], 0x34
mov byte ptr [local_0x1A], 0x39
mov dword ptr [local_0x10], 0x0
jmp code_0x1411
```

This shows that eax is the static value and is 41...41 is the key

With eax established now look into edx

```
code_0x13EE:
lea edx, [local_0x29]
mov eax, dword ptr [local_0x10]
add eax, edx
movzx eax, byte ptr [local_0x29]
mov edx, eax
movzx eax, byte ptr [local_0x19]
xor eax, edx
mov ecx, eax
lea edx, [local_0x29]
mov eax, dword ptr [local_0x10]
add eax, edx
mov byte ptr [local_0x29], cl
add dword ptr [local_0x10], 0x1
```

# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

```
push ebp
mov ebp, esp
sub esp, 0x38
mov dword ptr [local_0x14], 0x10
mov byte ptr [local_0x19], 0x41
mov byte ptr [local_0x29], 0x11
mov byte ptr [local_0x28], 0x20
mov byte ptr [local_0x27], 0x32
mov byte ptr [local_0x26], 0x32
mov byte ptr [local_0x25], 0x36
mov byte ptr [local_0x24], 0x2E
mov byte ptr [local_0x23], 0x33
mov byte ptr [local_0x22], 0x25
mov byte ptr [local_0x21], 0x12
mov byte ptr [local_0x20], 0x35
mov byte ptr [local_0x1F], 0x28
mov byte ptr [local_0x1E], 0x2D
mov byte ptr [local_0x1D], 0x2D
mov byte ptr [local_0x1C], 0x12
mov byte ptr [local_0x1B], 0x34
mov byte ptr [local_0x1A], 0x39
mov dword ptr [local_0x10], 0x0
jmp code_0x1411
```

Looking at the above starting at local\_0x29 and moving down...you can see that each is decreasing by 1 which has this appear to be a loop...


Using 41 as the key...cross referencing each corresponding number as a hexadecimal converting it over to ascii to get a corresponding number or letter...

Use CyberChef or XOR Cipher to convert the Hex

The screenshot shows the CyberChef web application interface. On the left is a sidebar with 'Operations' and 'Favourites'. The main area is titled 'Recipe' and contains two steps: 'From Hex' and 'XOR'. The 'From Hex' step has a 'Delimiter' of '0x'. The 'XOR' step has a 'Key' of '41', a 'Scheme' of 'Standard', and the 'Null preserving' checkbox is unchecked. The 'Input' panel on the right contains the hex string '11203232362E33251235262020123439'. The 'Output' panel at the bottom shows the result 'Passwordst111Sux'.

# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File



Search for a tool

★ SEARCH A TOOL ON dCode BY KEYWORDS:  
e.g. type 'boolean'

★ BROWSE THE FULL dCODE TOOLS' LIST

Results

**PasswordStillSux**

XOR Cipher - dCode

Tag(s) : Modern Cryptography

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dCode and more

dCode is free and its tools are a valuable help in games, maths, geocaching, puzzles and problems to solve every day!  
A suggestion ? a feedback ? a bug ? an idea ? [Write to dCode!](#)

### XOR CIPHER

Cryptography · Modern Cryptography · XOR Cipher

#### XOR DECODER

★ TEXT TO BE XORED (MULTIPLIED BY XOR)

Hexadecimal ASCII [00-7F] (Automatic Detection)

11 20 32 32 36 2E 33 25 12 35 28 20 20 12 34 39

#### ENCRYPTION/DECRYPTION METHOD

☐ AUTOMATIC (BRUTEFORCE 1 TO 16 BYTES) ⓘ

☐ USE THE BINARY KEY

☒ USE THE HEXADECIMAL KEY 41

☐ USE THE ASCII KEY XOR

☐ KNOWING THE KEY SIZE (IN BYTES) 1

★ RESULTS FORMAT ☒ ASCII (PRINTABLE) CHARACTERS

☐ HEXADECIMAL 00-FF-FF

☐ DECIMAL 0-127-255

☐ OCTAL 000-177-377

☐ BINARY 00000000-11111111

☐ INTEGER NUMBER

☐ FILE TO DOWNLOAD

► ENCRYPT / DECRYPT

#### Summary

- ★ XOR Decoder
- ★ XOR Calculator
- ★ What is the XOR cipher? (Definition)
- ★ How to encrypt using XOR cipher?
- ★ How to decrypt XOR cipher?
- ★ How to convert a text into binary?
- ★ What is the truth table for XOR?
- ★ How to recognize XOR ciphertext?
- ★ What are the pros and cons of XOR?
- ★ How to decipher XOR without the key?
- ★ What are the variants of the XOR cipher?

#### Similar pages

- ★ ASCII Code
- ★ Binary Code

# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

Converting file 1732 from HEX into ASCII

```
void __cdecl _checkString( int32_t p1 )
{
    uint32_t local_0x3C;
    uint32_t local_0x38;
    uint32_t local_0x34;
    uint32_t local_0x20;
    uint32_t local_0x1C;
    uint32_t local_0x18;
    uint32_t local_0x14;
    uint32_t local_0x10;

    push ebp
    mov ebp, esp
    sub esp, 0x38
    mov dword ptr [local_0x20], 0x73696854
    mov dword ptr [local_0x1C], 0x73736150
    mov dword ptr [local_0x18], 0x64726F77
    mov dword ptr [local_0x14], 0x21787553
    mov eax, dword ptr [p1]
    mov dword ptr [local_0x3C], eax
    call .idata$5_59 ; unsigned int __cdecl( char * _Str )
    cmp eax, 0x10
    jnz code_0x13FE
}
```

### RapidTables

Home > Conversion > Number conversion > Hex code to ASCII text

#### Hex to ASCII Text String Converter

Enter hex bytes with any prefix / postfix / delimiter and press the *Convert* button  
(e.g. 45 78 61 6d 70 6C 65 21):

From

To

Hexadecimal

Text

Open File

Paste hex numbers or drop file

0x73696854  
0x73736150  
0x64726F77  
0x21787553

Character encoding

ASCII

Convert

Reset

Swap

Text output ...

### RapidTables

Home > Conversion > Number conversion > Hex code to ASCII text

#### Hex to ASCII Text String Converter

Enter hex bytes with any prefix / postfix / delimiter and press the *Convert* button  
(e.g. 45 78 61 6d 70 6C 65 21):

From

To

Hexadecimal

Text

Open File

Paste hex numbers or drop file

73696854  
73736150  
64726F77  
21787553

Character encoding

ASCII

Convert

Reset

Swap

sihTssaPdrow!xuS

# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

Reverse the hexadecimal

Then rearrange to get proper order

**RapidTables**

Home > Conversion > Number conversion > Hex code to ASCII text

### Hex to ASCII Text String Converter

Enter hex bytes with any prefix / postfix / delimiter and press the *Convert* button  
(e.g. 45 78 61 6d 70 6C 65 21):

From

Hexadecimal

To

Text

Open File

Paste hex numbers or drop file

21 78 75 53  
53 75 78 21  
77 6F 72 64  
50 61 73 73  
54 68 69 73

Character encoding

ASCII

Convert

Reset

Swap

sihTssaPdrow!xuSSux!wordPassThis

**RapidTables**

Home > Conversion > Number conversion > Hex code to ASCII text

### Hex to ASCII Text String Converter

Enter hex bytes with any prefix / postfix / delimiter and press the *Convert* button  
(e.g. 45 78 61 6d 70 6C 65 21):

From

Hexadecimal

To

Text

Open File

Paste hex numbers or drop file

54 68 69 73  
54 68 69 73  
50 61 73 73  
77 6F 72 64  
53 75 78 21

Character encoding

ASCII

Convert

Reset

Swap

sihTssaPdrow!xuSSux!wordPassThisThisPasswordSux!

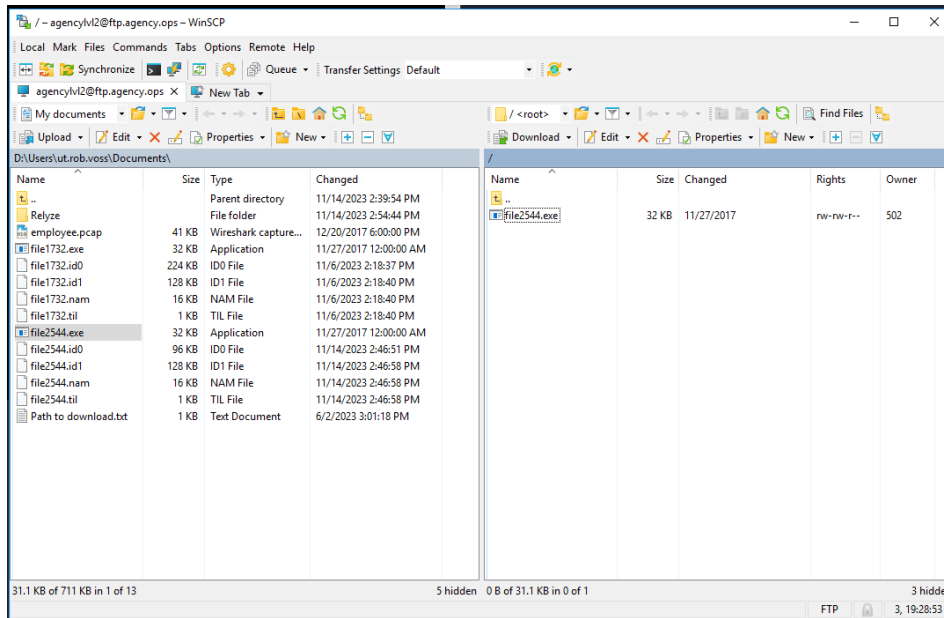


# Reverse Engineering and Exploitation

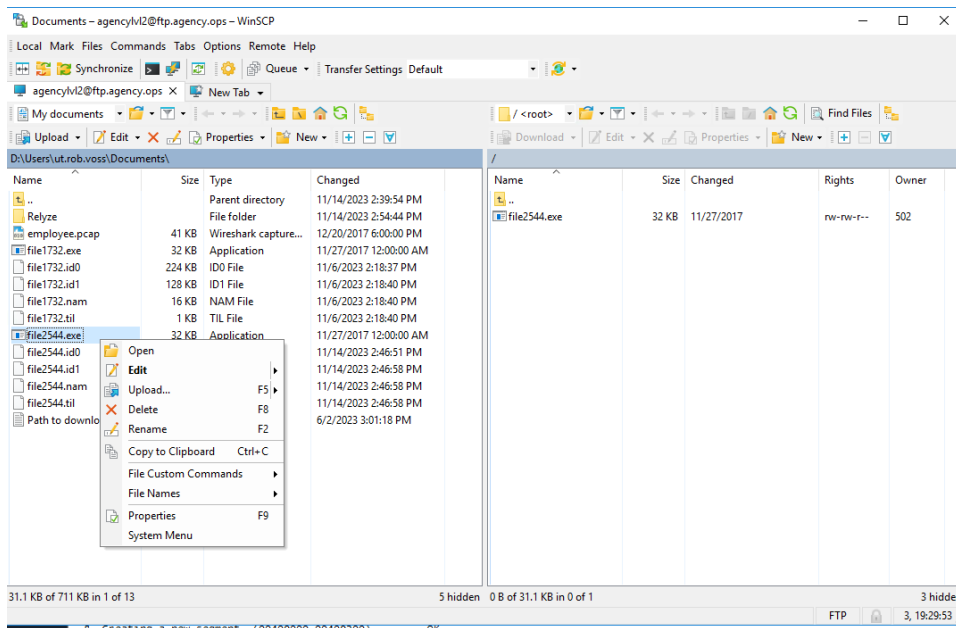
## Task 2 – Analyze a Related Suspicious File

### Run the Program

Open the Desktop and select the program



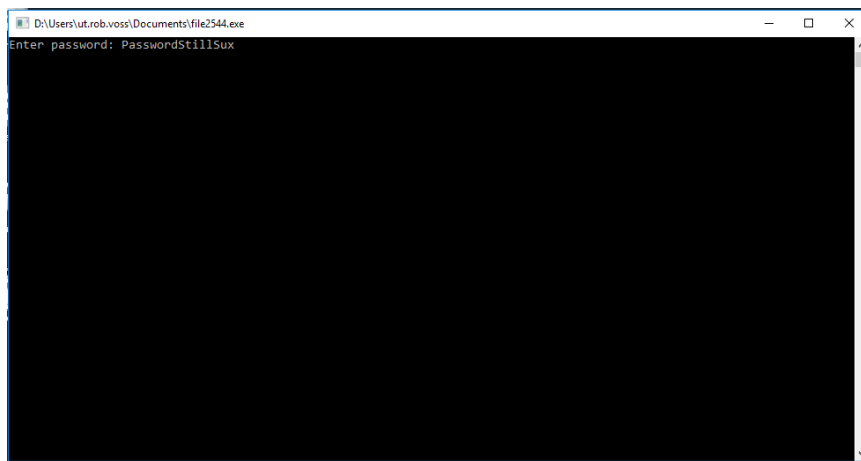
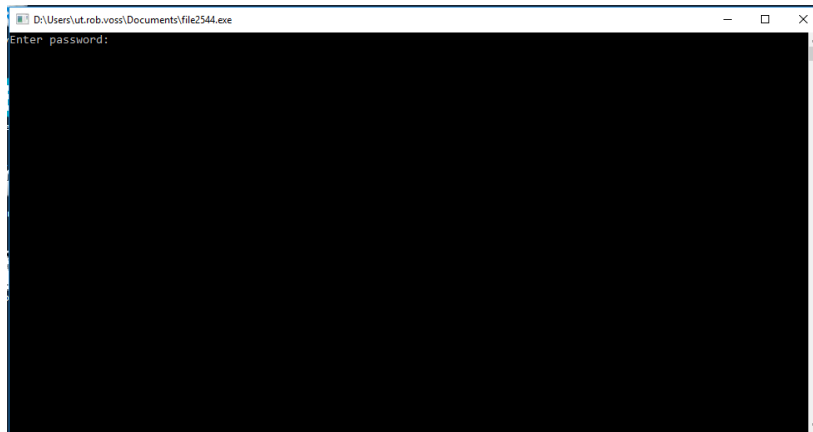
Open the program



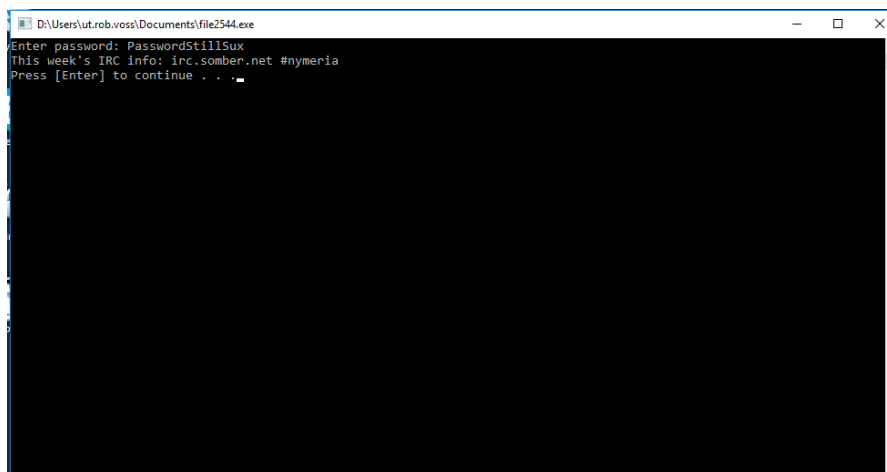
# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

Enter the password: PasswordStillSux



Hit enter:

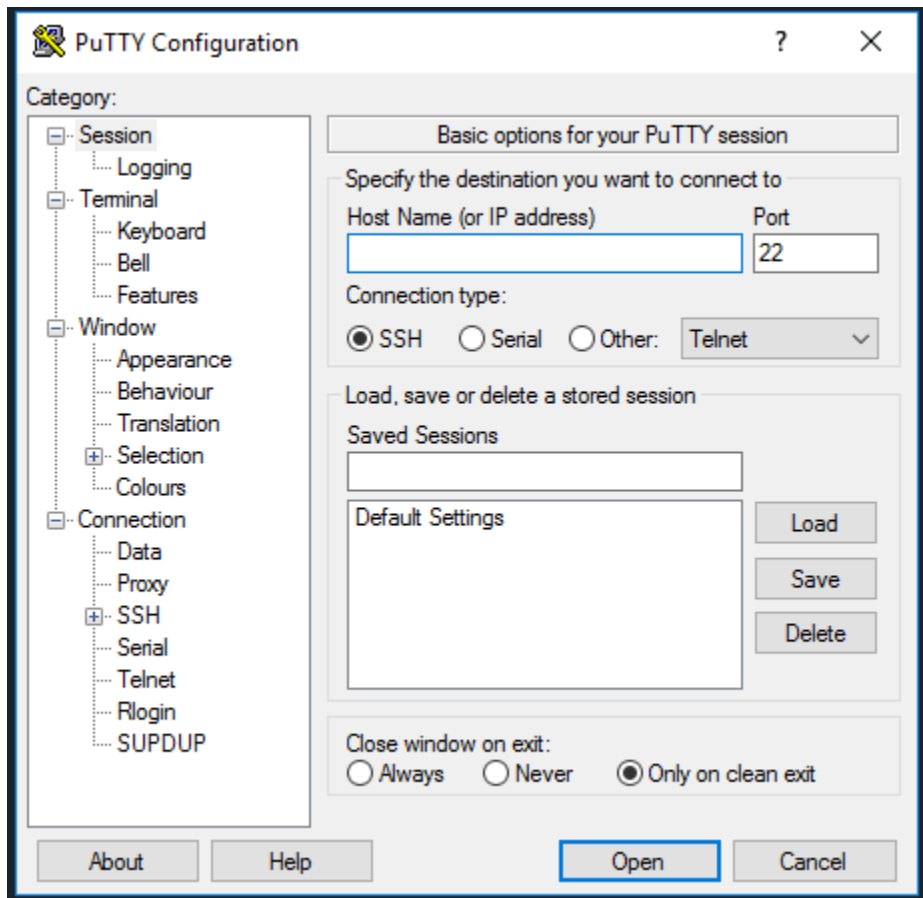
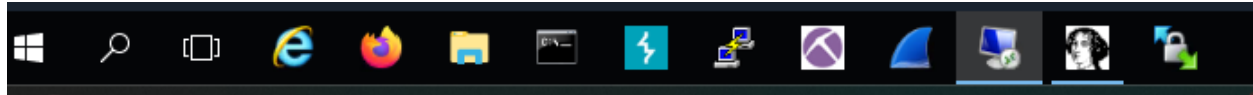


# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

### Connect to the IRC Channel

Open PuTTY



IP: 10.0.100.30

Username: traveler2721

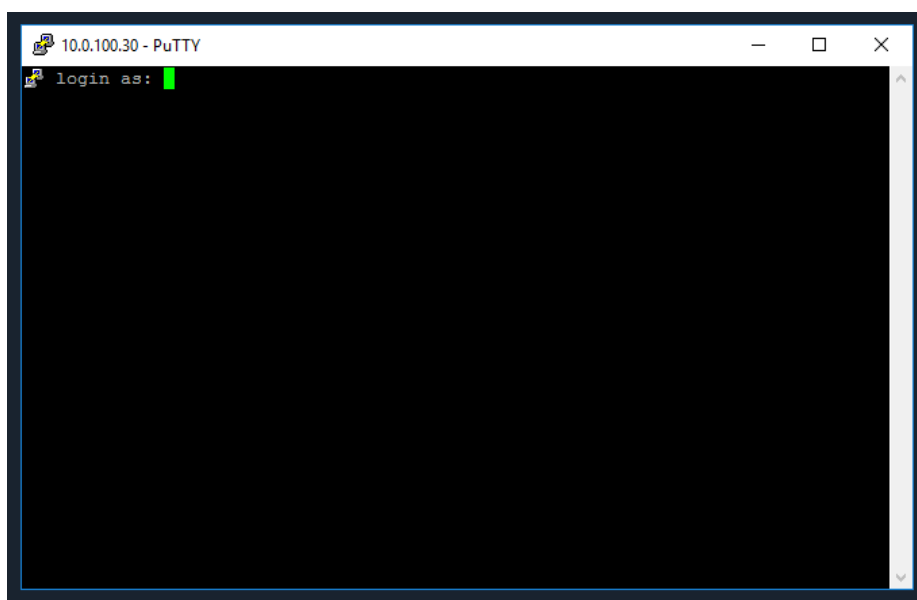
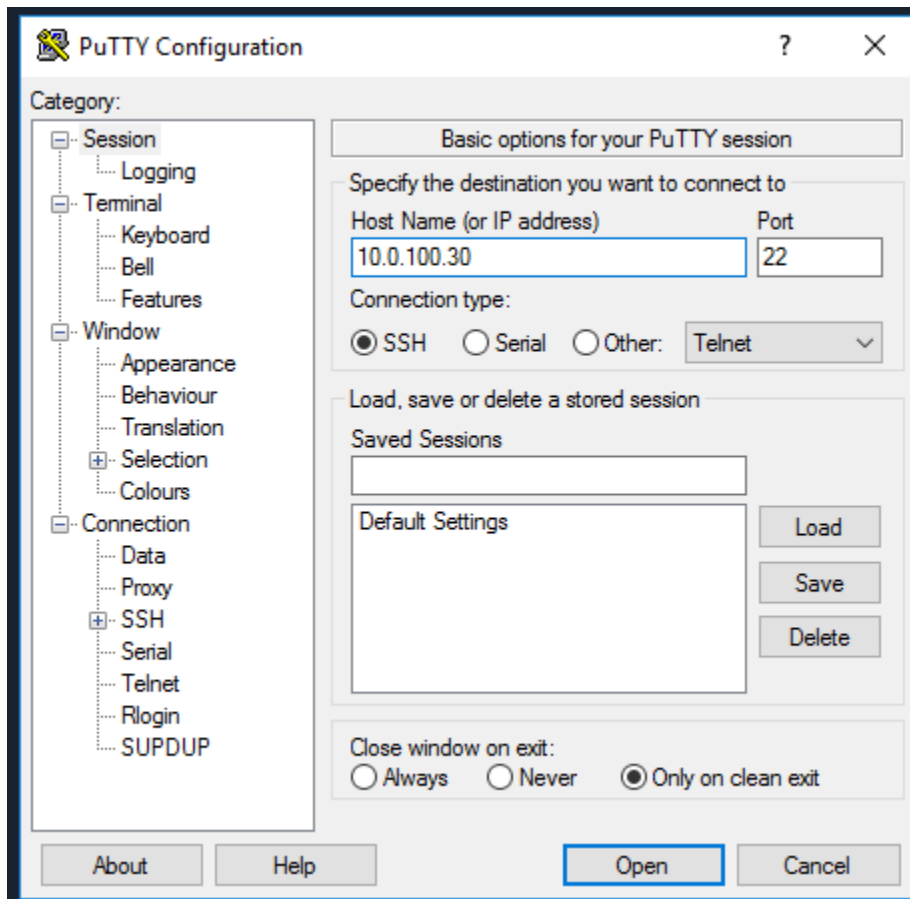
Password: EuD3jwtr4jGIEt07Tej

# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

Input Host name and click OPEN

IP: 10.0.100.30



# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

Input Username (right click on the mouse will paste in Linux) and hit enter.

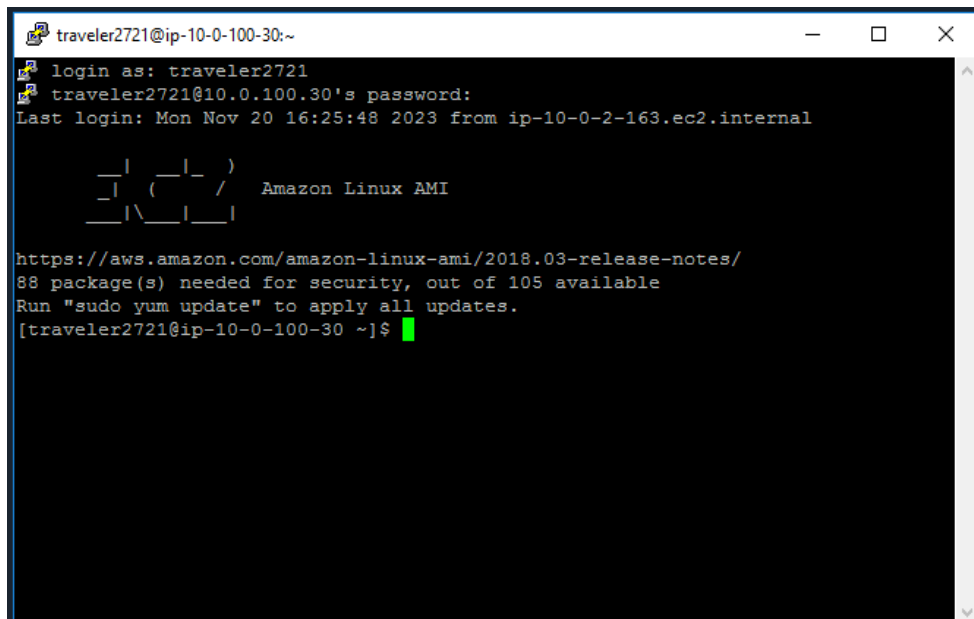
Username: **traveler2721**



Input Password (right click on the mouse will paste in Linux) and hit enter.

*REMEMBER: PASSWORD IS ALWAYS INVISIBLE...YOU MIGHT NEED TO PUT IT IN TWICE TO MAKE THE CONNECTION.*

Password: **EuD3jwtr4jGlEt07Tej**



## Task 2 – Analyze a Related Suspicious File

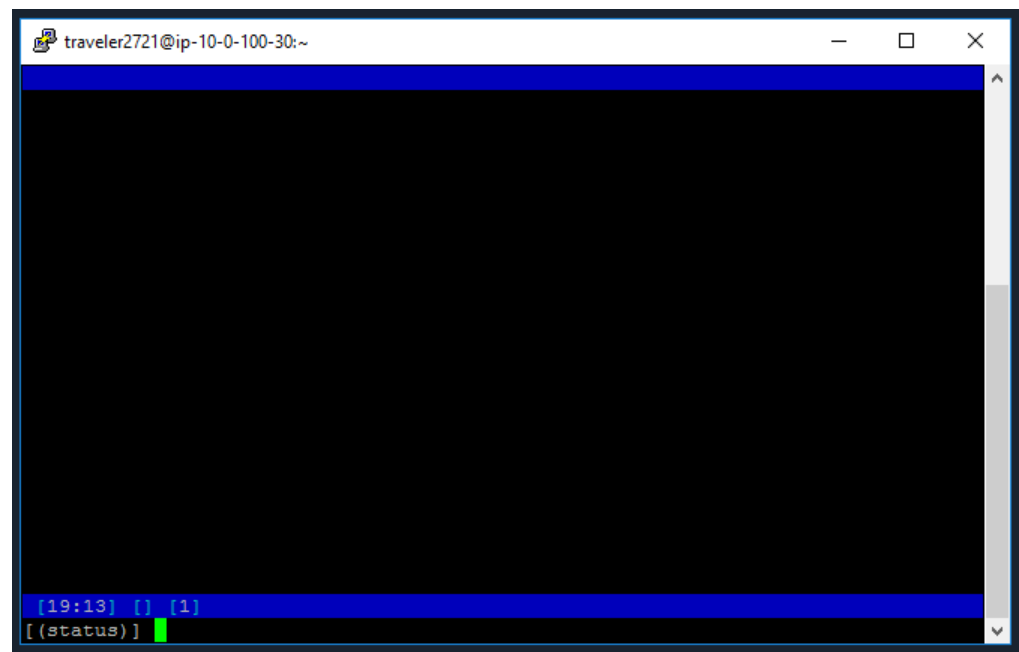
```

traveler2721@ip-10-0-100-30:~
login as: traveler2721
traveler2721@ip-10-0-100-30's password:
Last login: Mon Nov 20 16:25:48 2023 from ip-10-0-2-163.ec2.internal

  _ | _ | _ )
  _ | ( _ /   Amazon Linux AMI
  _ | \ _ | _ |

https://aws.amazon.com/amazon-linux-ami/2018.03-release-notes/
88 package(s) needed for security, out of 105 available
Run "sudo yum update" to apply all updates.
[traveler2721@ip-10-0-100-30 ~]$ irssi

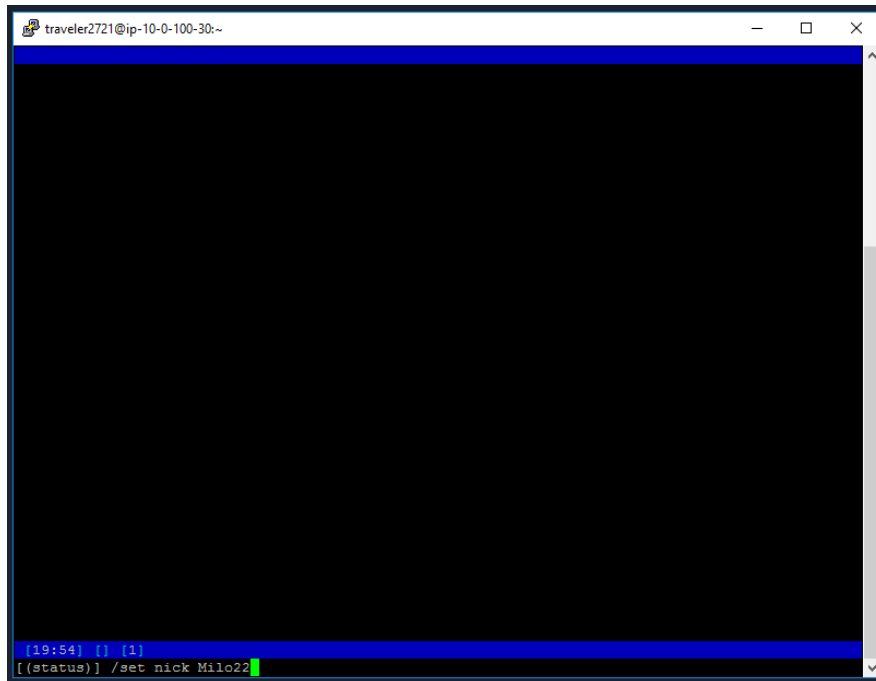
```



# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

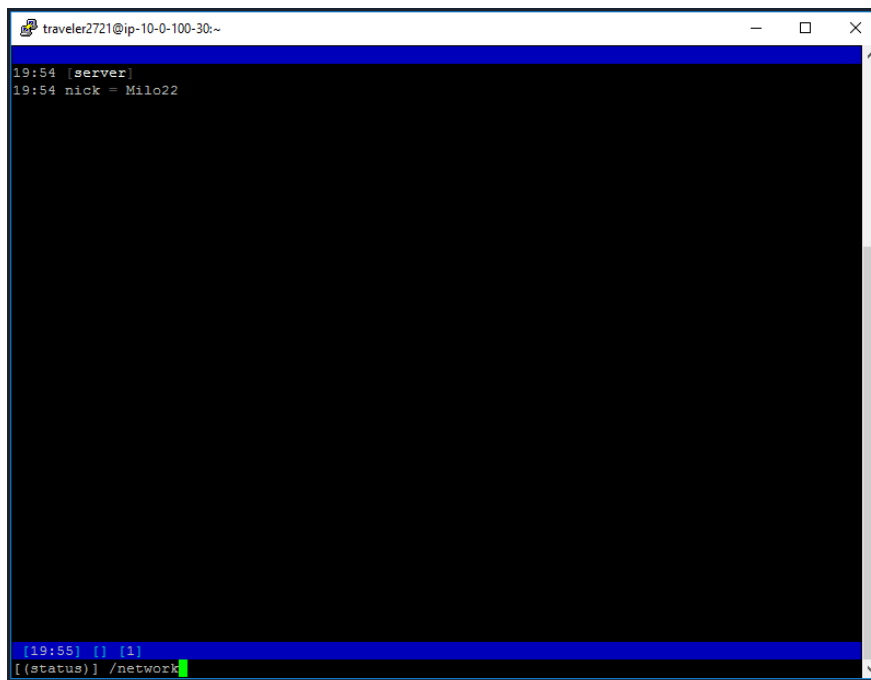
NOW ENTER: `/set nick <nick name of choice>`



```
traveler2721@ip-10-0-100-30:~  
[19:54] {} [1]  
[(status)] /set nick Milo22
```

Request network list

`/network` and hit enter



```
traveler2721@ip-10-0-100-30:~  
19:54 [server]  
19:54 nick = Milo22  
[19:55] {} [1]  
[(status)] /network
```

# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

Connect to network as found in WinSCP (This week's IRC info: irc.somber.net #nymeria)

**/connect somber** and hit enter

```
traveler2721@ip-10-0-100-30:~
19:54 [server]
19:54 nick = Milo22
19:55 Networks:
19:55 IRCnet: querychans: 5, max_kicks: 4, max_msgs: 5, max_whois: 4
19:55 EFNet: max_kicks: 4, max_msgs: 3, max_whois: 1
19:55 Undernet: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 DALnet: max_kicks: 4, max_msgs: 3, max_whois: 30
19:55 QuakeNet: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 OFTC: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 GameSurge: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 WebChat: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 Rizon: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 LinkNet: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 testnet:
19:55 somber.net:
19:55 irc.somber.net:
19:55 somber:

[19:56] {} (1)
[(status)] /connect somber
```

```
traveler2721@ip-10-0-100-30:~
19:55 OFTC: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 GameSurge: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 WebChat: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 Rizon: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 LinkNet: max_kicks: 1, max_msgs: 3, max_whois: 30
19:55 testnet:
19:55 somber.net:
19:55 irc.somber.net:
19:55 somber:
19:56 -!- Irssi: Looking up irc.somber.net
19:56 -!- Irssi: Connecting to irc.somber.net [10.0.200.99] port 6667
19:56 -!- Irssi: Connection to irc.somber.net established
19:56 -!- Welcome to the SomberNet IRC Network Milo22!traveler27@10.0.100.30
19:56 -!- Your host is irc.somber.net, running version UnrealIRCd-4.0.9
19:56 -!- This server was created Mon Dec 12 2016 at 00:34:39 UTC
19:56 -!- irc.somber.net UnrealIRCd-4.0.9 iowrsxzdHtIRqpWGTSE
lvhopsmttikraqbeIzMQNRTOVKDdGLPZSCcf
19:56 -!- UHNAMES NAMESX SAFELIST HCN MAXCHANNELS=10 CHANLIMIT=#:10 MAXLIST=b:60,e:60,I:60
MAXNICKLEN=30 NICKLEN=30 CHANNELLEN=32 TOPICLEN=307 KICKLEN=307 AWAYLEN=307 are
supported by this server
19:56 -!- MAXTARGETS=20 WALLCHOPS WATCH=128 WATCHOPTS=A SILENCE=15 MODES=12 CHANTYPES=#
PREFIX=(qaoHV)~&@%+ CHANMODES=beI,kLf,l,psmntirzMQNRTOVKDdGPZSCc NETWORK=SomberNet
CASEMAPPING=ascii EXTBAN=~.SOcaRrnqj ELIST=MNUCT are supported by this server
19:56 -!- STATUSMSG=~&@%+ EXCEPTS INVEX CMDS=USERIP,STARTTLS,KNOCK,DCCALLOW,MAP are supported by
this server
19:56 -!- 4089636B.9526EB0F.11EE7A65.IP is now your displayed host
19:56 -!- There are 1 users and 4 invisible on 1 servers
19:56 -!- 2 channels formed
19:56 -!- I have 5 clients and 0 servers
19:56 -!- 5 9 Current local users 5, max 9
19:56 -!- 5 8 Current global users 5, max 8
19:56 -!- MOTD File is missing
19:56 -!- Mode change [+iwx] for user Milo22
[19:56] [Milo22(+iwx)] [!somber (change with ^X)]
[(status)]
```



# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

Join #nymeria

/join #nymeria and hit enter

```
traveler2721@ip-10-0-100-30:~  
17:19 -!- This server was created Mon Dec 12 2016 at 00:34:39 UTC  
17:19 -!- irc.somber.net UnrealIRCd-4.0.9 iowrsxzdHtIRqpWGTsB  
lvhopsmtikragbeIzMQNRTOVKdGLPZSCcf  
17:19 -!- UHNAMES NAMESX SAFELIST HCN MAXCHANNELS=10 CHANLIMIT=#:10  
MAXLIST=b:60,e:60,I:60 MAXNICKLEN=30 NICKLEN=30 CHANNELLEN=32  
TOPICLEN=307 KICKLEN=307 AWAYLEN=307 are supported by this server  
17:19 -!- MAXTARGETS=20 WALLCHOPS WATCH=128 WATCHOPTS=A SILENCE=15 MODES=12  
CHANTYPES=# PREFIX=(gaohv)~&@%+  
CHANMODES=beI,kLf,l,psmntirzMQNRTOVKdGLPZSCc NETWORK=SomberNet  
CASEMAPPING=ascii EXTBAN=~,,SOcaRrnqj ELIST=MNUCT are supported by  
this server  
17:19 -!- STATUSMSG=~&@%+ EXCEPTS INVEX CMDS=USERIP,STARTTLS,KNOCK,DCCALLOW,MAP  
are supported by this server  
17:19 -!- 4089636B.9526EB0F.11EE7A65.IP is now your displayed host  
17:19 -!- There are 1 users and 4 invisible on 1 servers  
17:19 -!- 2 channels formed  
17:19 -!- I have 5 clients and 0 servers  
17:19 -!- 5 9 Current local users 5, max 9  
17:19 -!- 5 8 Current global users 5, max 8  
17:19 -!- MOTD File is missing  
17:19 -!- Mode change [+iwx] for user Milo22  
[17:20] [Milo22(+iwx)] [1:somber (change with ^X)]  
[(status)] /join #nymeria
```

Observe conversation

```
traveler2721@ip-10-0-100-30:~  
17:21 -!- Milo22 [traveler27@4089636B.9526EB0F.11EE7A65.IP] has joined #nymeria  
17:21 [Users #nymeria]  
17:21 [@Alexi] [ Milo22] [ VladTheDestroyer]  
17:21 -!- Irssi: #nymeria: Total of 3 nicks [1 ops, 0 halfops, 0 voices, 2  
normal]  
17:21 -!- Channel #nymeria created Mon Apr 19 19:16:39 2021  
17:21 -!- Irssi: Join to #nymeria was synced in 0 secs  
[17:21] [Milo22(+iwx)] [2:somber/#nymeria]  
[#nymeria]
```

# Reverse Engineering and Exploitation

## Task 2 – Analyze a Related Suspicious File

```
traveler2721@ip-10-0-100-30:~  
17:21 [Users #nymeria]  
17:21 [@Alexi] [ Milo22] [ VladTheDestroyer]  
17:21 !- Irssi: #nymeria: Total of 3 nicks [1 ops, 0 halfops, 0 voices, 2  
normal]  
17:21 !- Channel #nymeria created Mon Apr 19 19:16:39 2021  
17:21 !- Irssi: Join to #nymeria was synced in 0 secs  
17:22 <@Alexi> Are you done testing exploit - we r doing it for real soon. It  
has to work. no second chance.  
17:22 <VladTheDestroyer> right, I think it is working - I did test and upload  
it. You can get it here  
http://somber.net/uploads/file3666.exe  
17:22 <@Alexi> Good  
17:22 <@Alexi> Wait, is someone else here? Who are you?  
17:23 <VladTheDestroyer> Вот дерьмо  
17:24 <@Alexi> Are you done testing exploit - we r doing it for real soon. It  
has to work. no second chance.  
17:24 <VladTheDestroyer> right, I think it is working - I did test and upload  
it. You can get it here  
http://somber.net/uploads/file3666.exe  
17:24 <@Alexi> Good  
17:24 <@Alexi> Wait, is someone else here? Who are you?  
[17:24] [Milo22(+iwx)] [2:somber/#nymeria]  
[#nymeria]
```

Other players noted are: VladTheDestroyer and Alexi

See who the players are

/who and /whois

```
traveler2721@ip-10-0-100-30:~  
Irssi v0.8.15 - http://www.irssi.org  
16:31 !- Mode change [+iwx] for user Milo22  
16:43 !- VladTheDestroyer [VladTheDes@DEE0AF47.634401CC.11EE7A65.IP]  
16:43 !- ircname : nonya  
16:43 !- channels : #nymeria  
16:43 !- server : irc.somber.net [SomberNet Server]  
16:43 !- idle : 0 days 0 hours 0 mins 30 secs [signon: Mon Apr 19 19:16:56 2021]  
16:43 !- End of WHOIS  
16:44 !- There is no such nick @Alexi  
16:44 !- #nymeria Milo22 H 0 traveler27@4089636B.9526EB0F.11EE7A65.IP [Unknown]  
16:44 !- #nymeria VladTheDestroyer H 0 VladTheDes@DEE0AF47.634401CC.11EE7A65.IP [nonya]  
16:44 !- #nymeria Alexi H@ 0 Alexi@DEE0AF47.634401CC.11EE7A65.IP [nonya]  
16:44 !- End of /WHO list  
16:45 !- VladTheDestroyer [VladTheDes@DEE0AF47.634401CC.11EE7A65.IP]  
16:45 !- ircname : nonya  
16:45 !- channels : #nymeria  
16:45 !- server : irc.somber.net [SomberNet Server]  
16:45 !- idle : 0 days 0 hours 0 mins 30 secs [signon: Mon Apr 19 19:16:56 2021]  
16:45 !- End of WHOIS  
16:55 !- Alexi [Alexi@DEE0AF47.634401CC.11EE7A65.IP]  
16:55 !- ircname : nonya  
16:55 !- channels : @#nymeria  
16:55 !- server : irc.somber.net [SomberNet Server]  
16:55 !- idle : 0 days 0 hours 1 mins 5 secs [signon: Mon Apr 19 19:16:39 2021]  
16:55 !- End of WHOIS  
16:56 !- VladTheDestroyer [VladTheDes@DEE0AF47.634401CC.11EE7A65.IP]  
16:56 !- ircname : nonya  
16:56 !- channels : #nymeria  
16:56 !- server : irc.somber.net [SomberNet Server]  
16:56 !- idle : 0 days 0 hours 0 mins 5 secs [signon: Mon Apr 19 19:16:56 2021]  
16:56 !- End of WHOIS  
[16:56] [Milo22(+iwx)] [1:somber (change with ^X)] [Act: 2]  
[(status)]
```