

[illegible]

Name	Unrealircd Recon: Basics
URL	https://www.attackdefense.com/challengedetails?cid=514
Type	Network Recon : IRC Servers

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Q1. What is the host name of the IRC server running on the target machine? Also grab the banner.

Answer:

irc.hacknetwork.xyz

Banner: irc.hacknetwork.xyz NOTICE * :*** Looking up your hostname...

Command: nmap -sV -script banner 192.222.4.3

```
root@attackdefense:~# nmap -sV -script banner 192.222.4.3
Starting Nmap 7.70 ( https://nmap.org ) at 2019-05-23 17:52 UTC
Nmap scan report for 5u1i0quirrec9svqrm7jbpinh.temp-network_a-222-4 (192.222.4.3)
Host is up (0.000012s latency).
Not shown: 999 closed ports
PORT      STATE SERVICE VERSION
6667/tcp  open  irc
|_banner: :irc.hacknetwork.xyz NOTICE * :*** Looking up your hostname...
MAC Address: 02:42:C0:DE:04:03 (Unknown)
Service Info: Host: irc.hacknetwork.xyz

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 0.60 seconds
root@attackdefense:~#
```

Q2. Scan the target server with “ircsnapshot” tool and find out the server software name with version.

Answer: Unreal IRC 4.2.0

Commands:

cd tools/ircsnapshot

python ircsnapshot.py 192.222.4.3

```
root@attackdefense:~/tools/ircsnapshot# python ircsnapshot.py 192.222.4.3
Namespace(channels=None, help=False, listdelay=None, nick='YMwaaNQdmp', no_list=False, output='.', password=None, port='6667', proxy=
None, real='WXMSdcs0eZ', server='192.222.4.3', ssl=False, throttle=1.0, user='KmOZOuzMte')
[2019-05-23 17:53:52,961] Logger initiated
[2019-05-23 17:53:52,961] {"real": "WXMSdcs0eZ", "nick": "YMwaaNQdmp", "config": {"proxyport": 9050, "real": "WXMSdcs0eZ", "listDelay
": null, "nolist": false, "ssl": false, "throttleLevel": 1.0, "user": "KmOZOuzMte", "pass": null, "server": "192.222.4.3", "outputdir
": ".", "channelstocheck": null, "proxyhost": null, "port": "6667", "nick": "YMwaaNQdmp"}, "user": "KmOZOuzMte"}
[2019-05-23 17:53:52,962] USER KmOZOuzMte 127.0.0.1 192.222.4.3 :WXMSdcs0eZ
[2019-05-23 17:53:52,962] NICK YMwaaNQdmp
[2019-05-23 17:53:52,962] :irc.hacknetwork.xyz NOTICE * :*** Looking up your hostname...
[2019-05-23 17:53:52,962] :irc.hacknetwork.xyz NOTICE * :*** Couldn't resolve your hostname; using your IP address instead
[2019-05-23 17:53:53,003] PING :2D34F609
[2019-05-23 17:53:53,004] PONG :2D34F609
[2019-05-23 17:53:53,005] :irc.hacknetwork.xyz 001 YMwaaNQdmp :Welcome to the MYNet IRC Network YMwaaNQdmp!KmOZOuzMte@192.222.4.2
[2019-05-23 17:53:53,005] :irc.hacknetwork.xyz 002 YMwaaNQdmp :Your host is irc.hacknetwork.xyz, running version UnrealIRCd-4.2.0
[2019-05-23 17:53:53,005] :irc.hacknetwork.xyz 003 YMwaaNQdmp :This server was created Tue Nov 20 2018 at 09:38:20 UTC
[2019-05-23 17:53:53,005] :irc.hacknetwork.xyz 004 YMwaaNQdmp irc.hacknetwork.xyz UnrealIRCd-4.2.0 iowrsxzdHtIDZRqpWGTsb lvhopsmtikr
aqbeIzMqNRTOVKDdGLPZSCcf
[2019-05-23 17:53:53,005] :irc.hacknetwork.xyz 005 YMwaaNQdmp 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
10
[2019-05-23 17:53:53,005] :irc.hacknetwork.xyz 005 YMwaaNQdmp MAXTARGETS=20 WALLCHOPS WATCH=128 WATCHOPTS=A SILENCE=15 MODES=12 CHANT
YPES=# PREFIX=(qaohv)~&@%+ CHANMODES=beI,kLf,l,psmtirzMqNRTOVKDdGPZSCc NETWORK=MYNet CASEMAPPING=ascii EXTBAN=~,,tmTS0caRrnqj ELIST=M
NUCT :are supported by this server
```

Q3. Connect to IRC server using irssi client and answer the following questions:

Command: irssi -c 192.222.4.3 -n guest


```

Irssi v1.1.2-1 - http://www.irssi.org
17:59 -!- Irssi: Looking up 192.222.4.3
17:59 -!- Irssi: The following settings were initialized
17:59 real_name = root
17:59 user_name = root
17:59 nick = guest
17:59 -!- Irssi: Connecting to 192.222.4.3 [192.222.4.3] port 6667
17:59 -!- Irssi: Connection to 192.222.4.3 established
17:59 !irc.hacknetwork.xyz *** Looking up your hostname...
17:59 !irc.hacknetwork.xyz *** Couldn't resolve your hostname; using your IP address instead
17:59 -!- Welcome to the MYNet IRC Network guest!root@192.222.4.2
17:59 -!- Your host is irc.hacknetwork.xyz, running version UnrealIRCd-4.2.0
17:59 -!- This server was created Tue Nov 20 2018 at 09:38:20 UTC
17:59 -!- irc.hacknetwork.xyz UnrealIRCd-4.2.0 iowrsxzdHtIDZRqpwGTSB lvhopsmtikraqbeIzMQNRTOVKdDGLPZSCcf
17:59 -!- UHNAMES NAMESX SAFELIST HCN MAXCHANNELS=10 CHANLIMIT=#:10 MAXLIST=b:60,e:60,I:60 MAXNICKLEN=30 NICKLEN=30 CHANNELLEN=32
17:59 -!- TOPICLEN=307 KICKLEN=307 AWAYLEN=307 are supported by this server
17:59 -!- MAXTARGETS=20 WALLCHOPS WATCH=128 WATCHOPTS=A SILENCE=15 MODES=12 CHANTYPES=# PREFIX=(qaohv)~&@%+
17:59 -!- CHANMODES=beI,kLf,l,psmntirzMqNRTOVKdDGPZSCc NETWORK=MYNet CASEMAPPING=ascii EXTBAN=~.,tmTSOcaRrnqj ELIST=MNUCT are
17:59 -!- supported by this server
17:59 -!- STATUSMSG=~&@%+ EXCEPTS INVEX CMDS=USERIP,STARTTLS,KNOCK,DCCALLOW,MAP are supported by this server
17:59 -!- 51C64886.EE786B34.BA6D4470.IP is now your displayed host
17:59 -!- There are 1 users and 0 invisible on 1 servers
17:59 -!- I have 1 clients and 0 servers
17:59 -!- 1 1 Current local users 1, max 1
17:59 -!- 1 1 Current global users 1, max 1
17:59 -!- MOTD File is missing
17:59 -!- Mode change [+iwx] for user guest
17:59 guest( iwx) 1:192 (change with ^X)
[[status]]

```

Q3.1 What is the version of the IRC server.

Answer: 4.2.0

Command: /VERSION

```

18:00 -!- UnrealIRCd-4.2.0. irc.hacknetwork.xyz Fhin6OoEM [*=4200]
18:00 -!- UHNAMES NAMESX SAFELIST HCN MAXCHANNELS=10 CHANLIMIT=#:10 MAXLIST=b:60,e:60,I:60 MAXNICKLEN=30 NICKLEN=30 CHANNELLEN=32
18:00 -!- TOPICLEN=307 KICKLEN=307 AWAYLEN=307 are supported by this server
18:00 -!- MAXTARGETS=20 WALLCHOPS WATCH=128 WATCHOPTS=A SILENCE=15 MODES=12 CHANTYPES=# PREFIX=(qaohv)~&@%+
18:00 -!- CHANMODES=beI,kLf,l,psmntirzMqNRTOVKdDGPZSCc NETWORK=MYNet CASEMAPPING=ascii EXTBAN=~.,tmTSOcaRrnqj ELIST=MNUCT are
18:00 -!- supported by this server
18:00 -!- STATUSMSG=~&@%+ EXCEPTS INVEX CMDS=USERIP,STARTTLS,KNOCK,DCCALLOW,MAP are supported by this server
18:00 guest( iwx) 1:192 (change with ^X)
[[status]]

```

Q3.2 What command can list all available/supported commands?

Command: /HELP

```

18:00 Irssi commands:
18:00 accept      die      knock    notice   sconnect  unload
18:00 action      disconnect knockout notify   script    unnotify
18:00 admin        echo     lastlog  op        scrollbar unquery
18:00 alias         eval     layout   oper      server    unsilence
18:00 away         exec     links    part      servlist  upgrade
18:00 ban          flushbuffer list     ping      set        uptime
18:00 beep         foreach  load     query     sethost   userhost
18:00 bind          format   log       quit      silence   ver
18:00 cat          hash     lusers   quote     squery    version
18:00 cd           help     map       rawlog    squat     voice
18:00 channel      highlight me        recode    stats     wait
18:00 clear        ignore   mircdcc   reconnect statusbar  wall
18:00 completion  info     mode      redraw    time      wallops
18:00 connect      invite   motd      rehash    toggle    who
18:00 ctcp         ircnet   msg       reload    topic     whois
18:00 cycle        ison     names     resize    trace     whowas
18:00 dcc          join     nctcp     restart   ts        window
18:00 dehighlight  kick     netsplit  rmreconns unalias
18:00 deop         kickban  network   rmrejoins unban
18:00 devoice      kill     nick      save      unignore
[18:01] [guest(+iwx)] [1:192 (change with ^X)]
[(status)]

```

Q4.3 What command can list channels?

Command: /LIST -YES

```

18:02 -!- Channel Users Name
18:02 -!- End of /LIST
[18:03] [guest(+iwx)] [1:192 (change with ^X)]
[(status)]

```

Q4.4 What command is used to switch/join a channel?

Command: /JOIN #channel_name

```

18:03 -!- guest [root@51C64886.EE786B34.BA6D4470.IP] has joined #TestChannel
18:03 [Users #TestChannel]
18:03 [@guest]
18:03 -!- Irssi: #TestChannel: Total of 1 nicks [1 ops, 0 halfops, 0 voices, 0 normal]
18:03 -!- Channel #TestChannel created Thu May 23 18:03:54 2019
18:03 -!- Irssi: Join to #TestChannel was synced in 0 secs

```

Q4.5 What command is used to leave a channel?

Command: /LEAVE or /PART

```

18:05 @guest( iwx) 2:192/#TestChannel
[#TestChannel] /LEAVE

18:02 -!- Channel Users Name
18:02 -!- End of /LIST
18:05 guest( iwx) 1:192 (change with ^X)
[(status)]

```

Q.4.6 What command is used to switch to operator mode? Operator username is bobs and password is test@123321?

Command: /OPER bobs test@123321

```

18:06 -!- netadmin.mynet.org is now your displayed host
18:06 -!- Mode change [+ost] for user guest
18:06 -!- +kcfvGqSsob Server notice mask
18:06 -!- You are now an IRC Operator
18:06 !irc.hacknetwork.xyz WARNING: You /OPER'ed up from an insecure connection. Please consider using SSL/TLS.
18:06 !irc.hacknetwork.xyz OPER guest [bobs] used an insecure (non-SSL) connection to /OPER.
18:07 guest( iostwx) 1:192 (change with ^X) Act:
[(status)] /OPER bobs test@123321

```

References:

1. UnrealIRCd (<https://www.unrealircd.org/>)
2. Irssi (<https://irssi.org/>)
3. Ircsnapshot (<https://github.com/bwall/ircsnapshot>)