Exercise 4

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1
1.1
    • Server

ncat -lp 8080 -e /bin/sh
    • Client

ncat localhost 8080

pwd

1.2
    • Server

ncat -lp 8080

pwd
    • Client
```

ncat localhost 8080 -e /bin/sh

1.3

Yes, but the / bin/sh has to be changed to pw.exe on Windows to be able to execute PowerShell commands

1.4

```
-u, --udp Use UDP instead of default TCP
Bind-shell works but reverse-shells don't
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2
Server
ncat --ssl --allow 127.0.0.1 --chat -o 'chat.log' -lkp 4000
-1, --listen
                           'Bind and listen for incoming
'Specify source port to use'
-p, --source-port port
-k, --keep-open
                           'Accept multiple connections in listen

→ mode'

                           'Dump session data to a file'
-o, --output <filename>
                       'Connect or listen with SSL'
                       'Allow only given hosts to connect to
--allow
→ Ncat¹
--chat
                       'Start a simple Ncat chat server'
Client
ncat --ssl localhost 4000
3
while $(ncat -lp 8080 -c 'ncat localhost 80'); do
    true;
done
Is a proxy that forwards each request from port 8080 to port 80
Doesn't work
5
  • Which ports are used for SSH? The default port 22 and 8192
    nmap delta-xi.net -A | grep ssh
    22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3 (Ubuntu Linux;
     → protocol 2.0)
    8192/tcp open ssh OpenSSH 8.9p1 Ubuntu 3 (Ubuntu Linux;
     → protocol 2.0)
  • What's the RSA public key for SSH?
    nmap -script 'ssh-hostkey' delta-xi.net
     | ssh-hostkey:
```

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256 Offa22a64fd47aa5928a7bd850abf757 (ECDSA)
    • When does the IMAP certificate expire?
    nmap -p 993 -sC delta-xi.net
    _Not valid after: 2022-10-29T18:46:53
  • For which domain, other than delta-xi.net, does the host accept e-mails
    for? Every subdomain. (*.delta-xi.net)
  • What's the welcome message the SMTP server provides?
    ncat -C mail.delta-xi.net 587
    220 [ delta-xi.net ] Iniquity divine.
    Helo abou.shehata643@yahoo.de
    250 delta-xi.net
echo -n "hello world" | cargo run -- -key key.txt -enc
Encrypted: ORqJwHYOzYMUJNBZ/IMqJA==
echo "ORqJwHYOzYMUJNBZ/IMqJA==" | cargo run -- -key key.txt -dec
Decrypted: hello world
```

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