

### Syntax

```
nc [options] host port
```

### UDP Connection

```
nc -u host port
```

Default for netcat is TCP.

### Port Scanning

```
nc -z -v 192.168.1.2 21-80
```

```
nc: connect to 192.168.1.1 port 21 (tcp) failed: Connection refused
```

```
Connection to 192.168.1.1 22 port [tcp/ssh] succeeded!
```

```
nc: connect to 192.168.1.1 port 23 (tcp) failed: Connection refused
```

```
...
```

```
nc: connect to 192.168.1.1 port 79 (tcp) failed: Connection refused
```

```
Connection to 192.168.1.1 80 port [tcp/http] succeeded!
```

### Server Details

```
echo "EXIT" | nc 192.168.1.1 22
```

```
SSH-2.0-OpenSSH_7.2p2 Ubuntu-4ubuntu2.8
```

```
Protocol mismatch.
```

### Sending/Receiving

```
Receiving nc -l 5555 > file_name
```

```
Sending nc receiving.host.com 5555 < file_name
```

### Sending/Receiving Multiple Files

```
Receiving nc -l 5555 | tar xzvf -
```

```
Sending tar czvf - /path/to/dir | nc receiving.host.com 5555
```

### Simple Chat Server

```
Server nc -l 5555
```

```
Client nc first.host.com 5555
```

To close the connection, type CTRL+C

### HTTP Request

```
printf "GET /nc.1 HTTP/1.1\r\nHost: man.openbsd.org\r\n\r\n" | nc man.openbsd.org 80
```

### Information

```
man nc
```

Credit: <https://linuxize.com/post/netcat-nc-command-with-examples/>

