

Linux for Embedded Objects

LEO1-E19

Networking

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Agenda



Sockets

Iptables

Infrastructure



User Space representation of endpoint of network connection

Socat

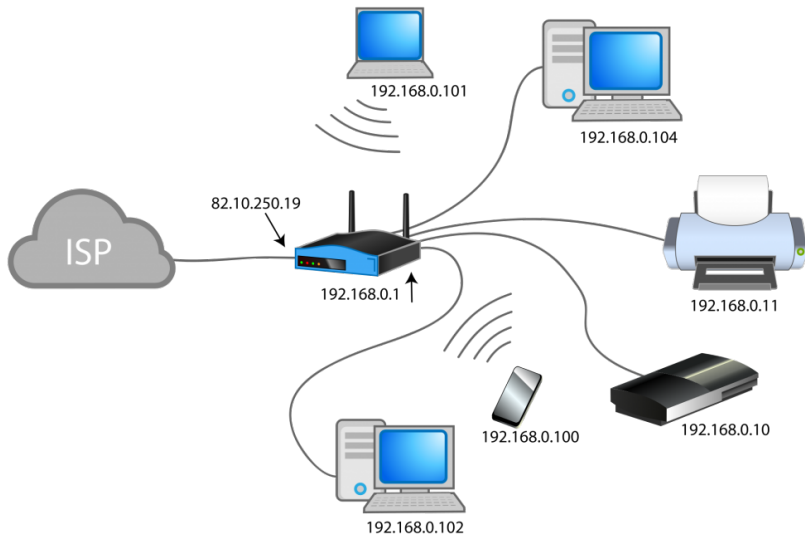
```
socat tcp-listen:8080,reuseaddr,fork exec:"cat file"
```

```
socat tcp:192.168.0.1:8080 - > file
```

Iptables



- Firewall
- SNAT
- DNAT





Chain INPUT (policy ACCEPT)

target

prot opt source destination

Chain FORWARD (policy ACCEPT)

target

prot opt source destination

Chain OUTPUT (policy ACCEPT)

target

prot opt source destination



Chain PREROUTING (policy ACCEPT)

target

prot opt source destination

Chain INPUT (policy ACCEPT)

target

prot opt source destination

Chain OUTPUT (policy ACCEPT)

target

prot opt source destination

Chain POSTROUTING (policy ACCEPT)

target

prot opt source destination



- ▶ DNS
 - ▶ nslookup
 - ▶ dig +trace
- ▶ DHCP
 - ▶ dhcpcd