

STI MEI/MIEBIOM

2022/2023

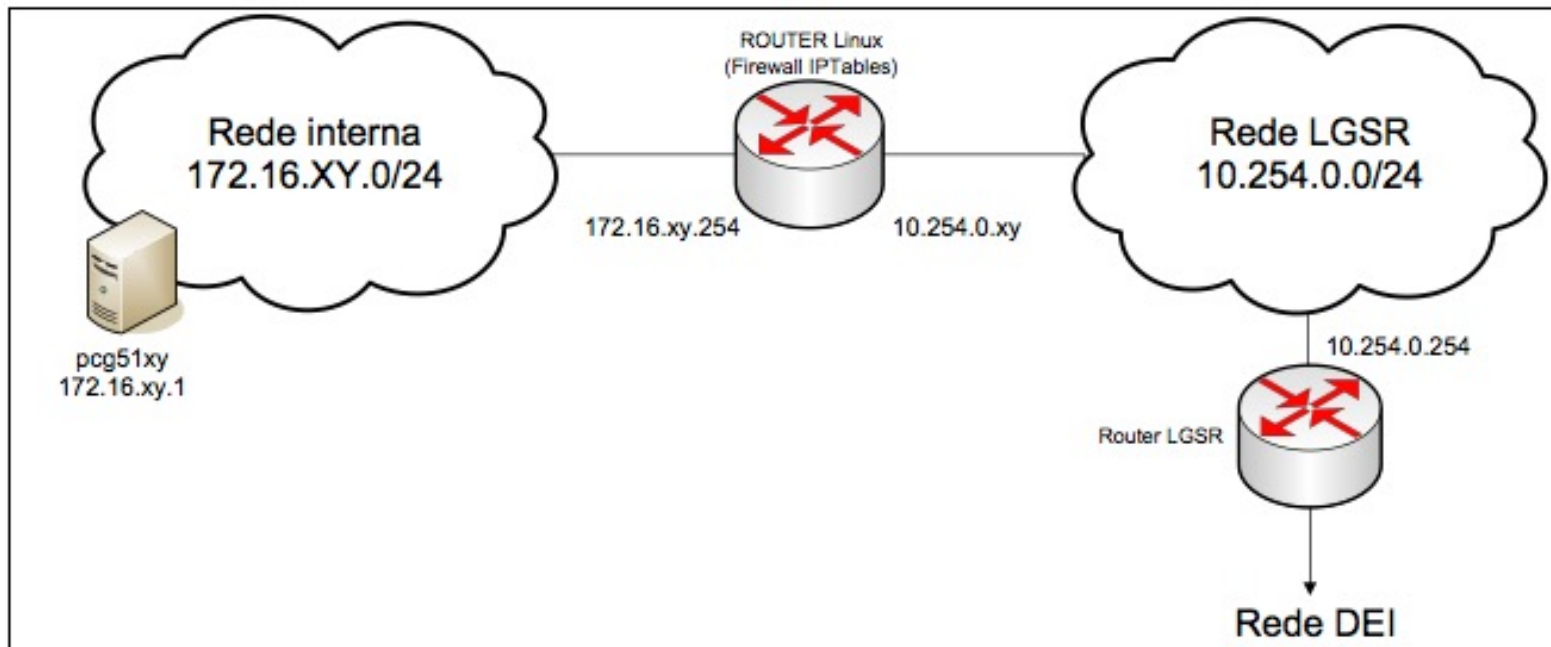
Practical class #5

- **Network packet filtering and NAT with IPTables**

IPTables

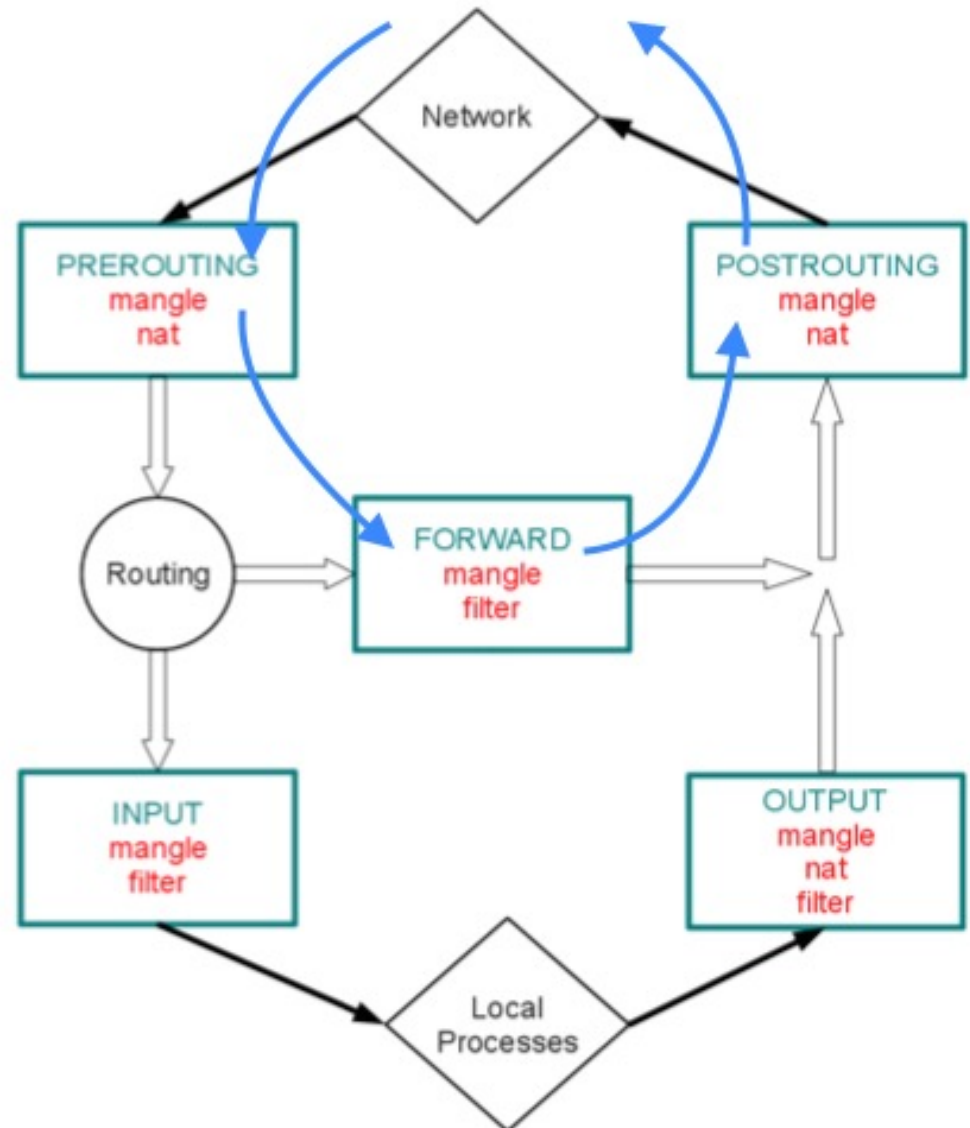
Linux as a router and network firewall:

- Packet filtering between different IP networks
- Network Address Translation (SNAT, Masquerading, DNAT, REDIRECT, ...)



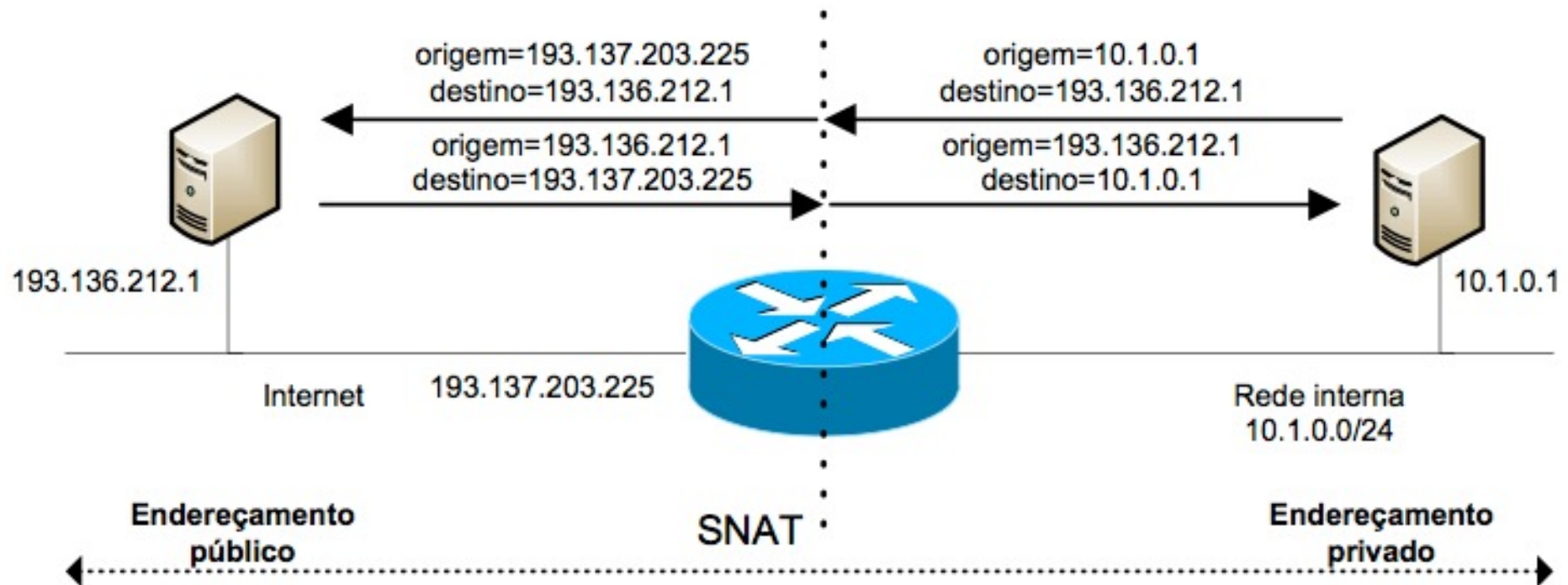
IPTables

**filter, nat and
mangle** tables:



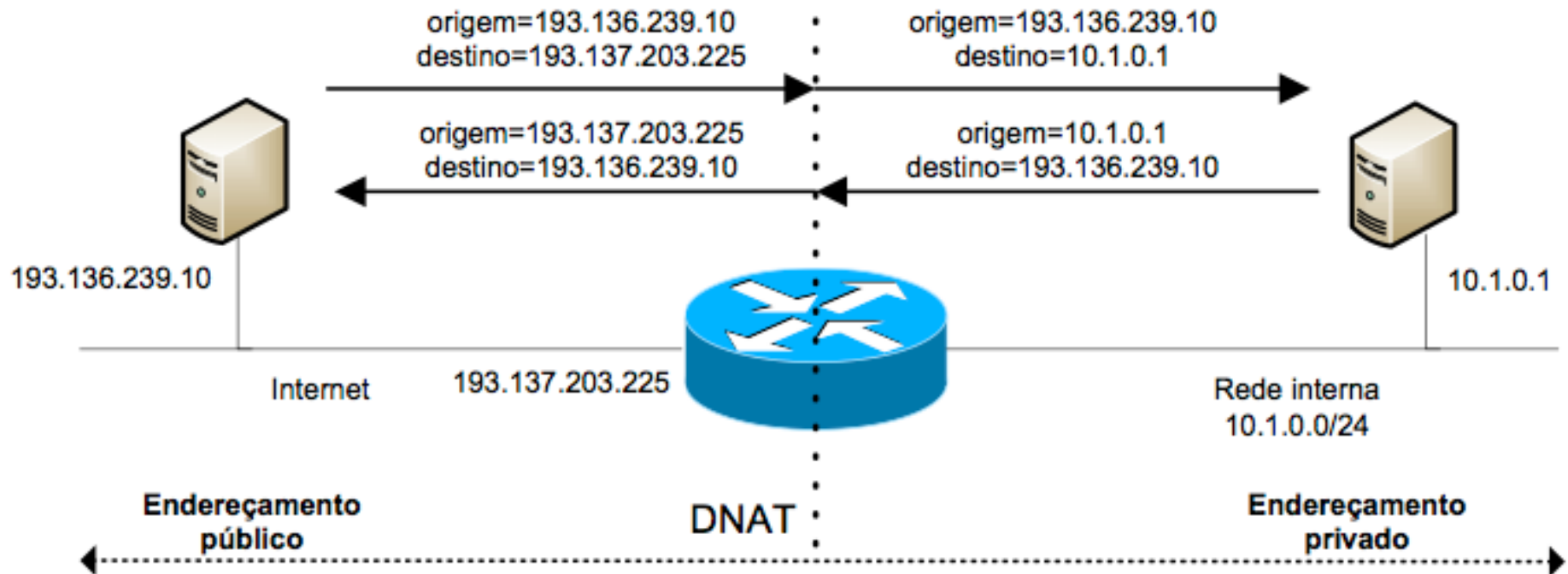
NAT (SNAT)

```
iptables -t nat -A POSTROUTING -s 10.1.0.0/24 -d 193.136.212.1 -j SNAT --to-source 193.137.203.225
```

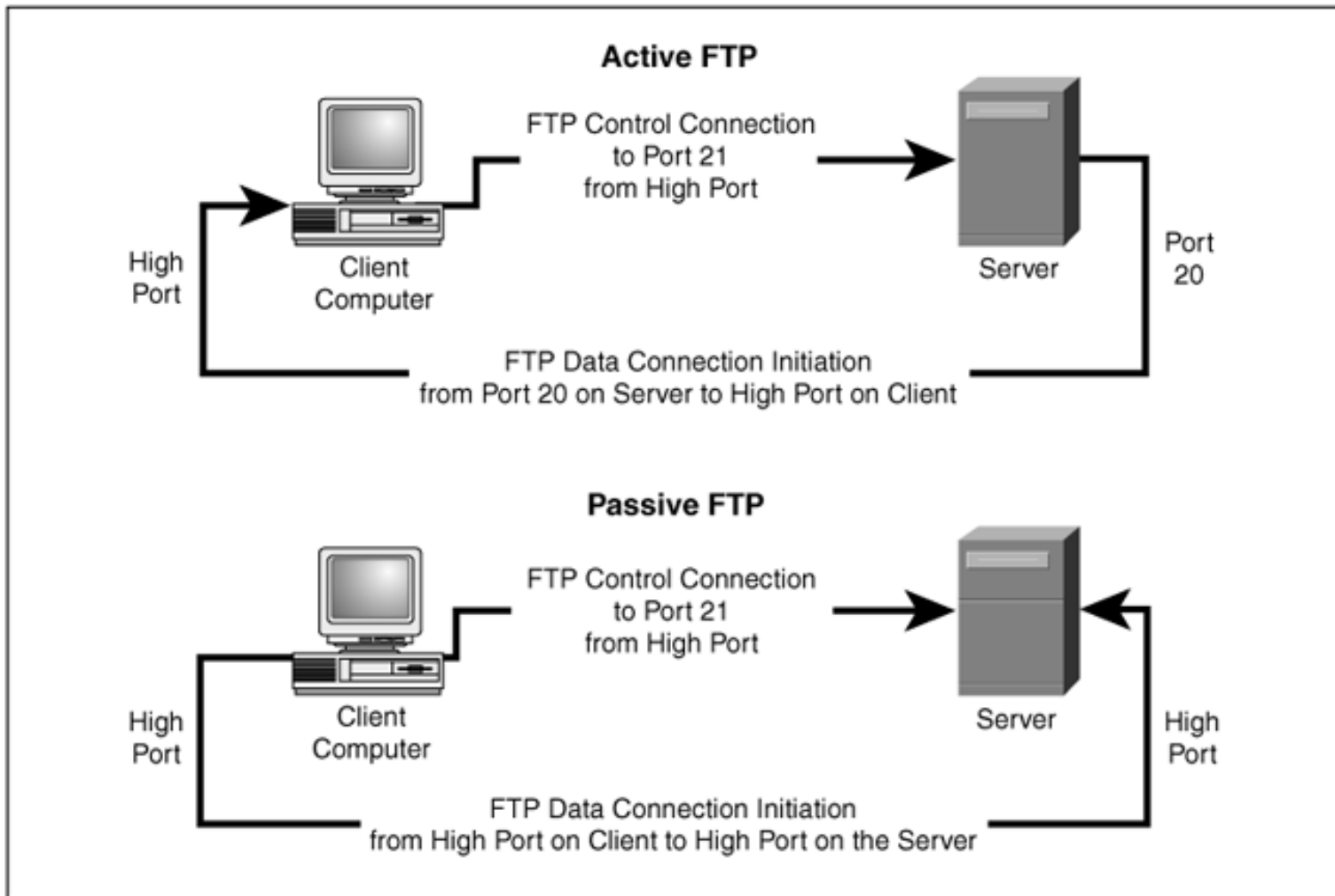


NAT (DNAT)

```
iptables -t nat -A PREROUTING -s 193.136.239.10 -d 193.137.203.225 -j DNAT --to-destination 10.1.0.1
```



FTP (Active and Passive modes)



Experimental scenario (example)

