NAT on linux with iptables

`eth0` is our external network and `eth1` is our intenral one:

```
echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
iptables -A FORWARD -i eth0 -o eth1 -m state --state RELATED,ESTABLISHED -j
ACCEPT
iptables -A FORWARD -i eth1 -o eth0 -j ACCEPT
```

to make all this permanent change the following parameter in `/etc/sysctl.conf` to `1`:

```
net.ipv4.ip_forward = 1
```

then save the current iptables permanetnly. in **ubuntu** you do:

```
apt install iptables-persistent
```

choose `yes` at the end to save the current config and you're done! if you change other iptables rules, you can run the following command to update the saved settings:

```
iptables-save > /etc/iptables/rules.v4
```

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