

# Network Namespaces

## setup

install `netns` helper

```
wget https://raw.githubusercontent.com/Lekensteyn/netns/master/netns -O /bin/netns  
chmod +x /bin/netns
```

uncomment "net.ipv4.ip\_forward=1" in /etc/sysctl.d/99-sysctl.conf

enable NAT

```
iptables -t nat -A POSTROUTING -o ens3 -j MASQUERADE  
iptables-save > /etc/firewall
```

bash prompt, add to .bashrc

```
_ns_name=$(ip netns identify 2>/dev/null)  
PS1="${_ns_name}:+(${_ns_name}) ${PS1}  
unset _ns_name
```

## use

create namespace "0"

```
netns 0 start
```

run bash inside

```
netns 0 exec
```

permit routing

```
ip netns exec netns0 sysctl -w net.ipv4.ip_forward=1  
iptables -t nat -A POSTROUTING -o tun0 -j MASQUERADE
```

inside NS

```
iptables -t nat -A PREROUTING -d 10.9.0.2 -p tcp --dport 443 -j DNAT --to-destination 10.139.231.1:443
```

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