

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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<https://wiki.csgalileo.org/tips/linux/networknamespaces?rev=1548346722>

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