Network Namespaces

setup

install netns helper

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

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 bach 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
```

```
curl -k --header "Host: www.xxx.it"
https://10.9.0.2:443/Info-ws/services/xxx/
```

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