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# DPI(Deep Packet Inspection)

- <https://secretsni.kilho.net/> - SecretSNI( )
- <https://github.com/ValdikSS/GoodbyeDPI> - GoodbyeDPI
- <https://github.com/Include-sys/GUI-for-GoodbyeDPI> - GoodbyeDPI-GUI
- <https://safevisit.org/ko> - SafeVisit

: <https://terzeron.com/confluence/pages/viewpage.action?pageId=34734083>

- Windows GoodbyeDPI GUI for GoodbyeDPI DPI
- Linux DPI , MTU , zapret
  - notsodeep 가 iptables 가
  - notsodeep zapret 가
  - zapret 가

## MTU

- MTU 220 400 가
- [https://www.clien.net/service/board/cm\\_mac/13158762](https://www.clien.net/service/board/cm_mac/13158762)
  - MTU DPI 가 , 가 220
- [MTU](#)

## notsodeep

: <https://github.com/farukuzun/notsodeep>

```
# Debian
sudo apt-get install libnetfilter-queue-dev libc6-dev

# RedHat
yum install libnetfilter_queue-devel compat-glibc
```

```
git clone https://github.com/farukuzun/notso Deep .git
cd notso Deep
make
sudo nohup ./notso Deep &
```

## iptables

iptables TCP connection handshake NFQUEUE notso Deep

```
sudo iptables -A INPUT -p tcp --tcp-flags SYN,ACK SYN,ACK --sport 443 -j
NFQUEUE --queue-num 200 --queue-bypass
sudo iptables -t raw -I PREROUTING -p tcp --sport 80 --tcp-flags SYN,ACK
SYN,ACK -j NFQUEUE --queue-num 200 --queue-bypass
```

, -s IP  
notso Deep

```
sudo iptables -I INPUT -s < IP> -p tcp --tcp-flags SYN,ACK SYN,ACK --
sport 443 -j ACCEPT
```

-A -I

## firewalld rule

```
firewall-cmd --permanent --direct --passthrough ipv4 -I INPUT 1 -p tcp --
tcp-flags SYN,ACK SYN,ACK --sport 443 -j NFQUEUE --queue-num 200 --queue-
bypass
firewall-cmd --permanent --direct --passthrough ipv4 -t raw -I PREROUTING 1
-p tcp --sport 80 --tcp-flags SYN,ACK SYN,ACK -j NFQUEUE --queue-num 200 --
queue-bypass
firewall-cmd --reload
```

```
cd /tmp
git clone https://github.com/farukuzun/notso Deep .git
cd notso Deep
make
cd ..
```

```
sudo su
cp -R notsodeep /opt
cp /opt/notsodeep/notsodeep.service /etc/systemd/system/
systemctl enable notsodeep.service
iptables -A INPUT -p tcp --tcp-flags SYN,ACK SYN,ACK --sport 443 -j NFQUEUE
--queue-num 200 --queue-bypass
iptables -t raw -I PREROUTING -p tcp --sport 80 --tcp-flags SYN,ACK SYN,ACK
-j NFQUEUE --queue-num 200 --queue-bypass
iptables-save > /etc/iptables/iptables.rules
systemctl enable iptables
systemctl start iptables
systemctl start notsodeep.service
```

## zapret

: <https://github.com/bol-van/zapret>

### zapret

### clone

```
git clone https://github.com/bol-van/zapret
```

```
apt install lsb-core libnetfilter-queue-dev ipset
```

```
cd zapret
cd nfq
make
cd tpws
make
```

```
sudo cp -r zapret /opt
cd /opt/zapret
sudo cp /opt/zapret/init.d/debian7/zapret /etc/init.d/
sudo /etc/init.d/zapret start
sudo /opt/zapret/nfq/nfqws --daemon --qnum=200 --wsize=4 --hostspell=HoSt --
hostdot --host-tab --hostnospace ...
```

- iptables.txt
  - <https://raw.githubusercontent.com/bol-van/zapret/master/iptables.txt>
- iptables
  - iptables

## window size

- TCP window size HTTP TCP  
DPI (DPI 가 )

```
sudo nfqws
iptables -t raw -I PREROUTING -p tcp --sport 80 --tcp-flags SYN,ACK SYN,ACK
-j NFQUEUE --queue-num 200 --queue-bypass
iptables -t raw -I PREROUTING -p tcp --sport 80 --tcp-flags SYN,ACK SYN,ACK
-m set --match-set zapret src -j NFQUEUE --queue-num 200 --queue-bypass
```

## Host:

- Host: host: DPI (DPI 가 )

```
sudo nfqws
iptables -t mangle -I POSTROUTING -p tcp --dport 80 -j NFQUEUE --queue-num
200 --queue-bypass
iptables -t mangle -I POSTROUTING -p tcp --dport 80 -m set --match-set
zapret dst -j NFQUEUE --queue-num 200 --queue-bypass
iptables -t mangle -I POSTROUTING -p tcp --dport 80 -m set --match-set
zapret dst -m connbytes --connbytes-dir=original --connbytes-mode=packets --
connbytes 1:5 -j NFQUEUE --queue-num 200 --queue-bypass
```

## TPROXY

```
sysctl -w net.ipv4.ip_forward=1
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE

ip -f inet rule add fwmark 1 lookup 100
ip -f inet route add local default dev lo table 100

# prevent loop
iptables -t filter -I INPUT -p tcp --dport 1188 -j REJECT
iptables -t mangle -A PREROUTING -i eth1 -p tcp --dport 80 -j MARK --set-
mark 1
```

```
iptables -t mangle -A PREROUTING -i eth1 -p tcp --dport 80 -j TPROXY --  
tproxy-mark 0x1/0x1 --on-port 1188
```

```
iptables -t mangle -A PREROUTING -i eth1 -p tcp --dport 80 -m set --match-  
set zapret dst -j MARK --set-mark 1  
iptables -t mangle -A PREROUTING -i eth1 -p tcp --dport 80 -m mark --mark  
0x1/0x1 -j TPROXY --tproxy-mark 0x1/0x1 --on-port 1188
```

## DNAT

```
# run tpws as user "tpws". its required to avoid loops.  
sudo -u tpws  
sysctl -w net.ipv4.conf.eth1.route_localnet=1  
iptables -t nat -I PREROUTING -p tcp --dport 80 -j DNAT --to 127.0.0.1:1188  
iptables -t nat -I OUTPUT -p tcp --dport 80 -m owner ! --uid-owner tpws -j  
DNAT --to 127.0.0.1:1188
```

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Last update: 2021/01/17 03:02

