

# ubuntu????????????????

#####  
#####

```
“##### 47.236.101.216:6011 #####  
47.241.11.4:6011”
```

Ubuntu 14.04##### 3.x ##### “” L3/L4  
#####  
#####

## ? ?????? iptables DNAT?????

##### iptables DNAT [] []

1?? ????????

```
# IP#####  
echo 1 > /proc/sys/net/ipv4/ip_forward  
sed -i '/net.ipv4.ip_forward/d' /etc/sysctl.conf  
echo "net.ipv4.ip_forward=1" >> /etc/sysctl.conf  
sysctl -p  
  
# #####  
iptables -t nat -F  
  
# DNAT#####6011#####  
iptables -t nat -A PREROUTING -p tcp --dport 6011 -j DNAT --to-destination 47.241.11.4:6011  
  
# SNAT#####  
iptables -t nat -A POSTROUTING -p tcp -d 47.241.11.4 --dport 6011 -j SNAT --to-source  
47.236.101.216
```

## 2?? ?????

Ubuntu 14.04  `iptables-persistent`

```
apt-get install iptables-persistent -y
service netfilter-persistent save
```

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

`/etc/network/interfaces`  `post-up`

```
post-up iptables-restore < /etc/iptables.rules
```

## ? ?????? `socat` ?? TCP ?????

`socat`

## 1?? ??

```
apt-get install socat -y
```

## 2?? ?????

```
socat TCP-LISTEN:6011,fork TCP:47.241.11.4:6011
```

`6011`  `47.241.11.4:6011`

## 3?? ??????????????

`/etc/rc.local`

```
/usr/bin/socat TCP-LISTEN:6011,fork TCP:47.241.11.4:6011 &
```

`screen` / `nohup`

```
nohup socat TCP-LISTEN:6011,fork TCP:47.241.11.4:6011 >/var/log/socat_6011.log 2>&1 &
```

# ? ?????? Nginx TCP ????????????

1. Nginx TCP

1. stream

```
apt-get install nginx-extras -y
```

2. /etc/nginx/nginx.conf

```
stream {
    server {
        listen 6011;
        proxy_pass 47.241.11.4:6011;
    }
}
```

3.

```
nginx -t && service nginx restart
```

## ?? ?????

| iptables DNAT |  |  |  |       |
|---------------|--|--|--|-------|
| socat         |  |  |  |       |
| nginx stream  |  |  |  | Nginx |

## ? ??

```
telnet 47.236.101.216 6011
```

