

OpenWRT

First steps

To use SSH, first telnet to router and set root password.

Enable SSH on WAN

```
uci add firewall rule
uci set firewall.@rule[-1].src=wlan
uci set firewall.@rule[-1].target=ACCEPT
uci set firewall.@rule[-1].proto=tcp
uci set firewall.@rule[-1].dest_port=22
uci commit firewall
/etc/init.d/firewall restart
```

Multiple WAN IP

same provider

There are two method defining multiple WAN IP

https://wiki.openwrt.org/doc/uci/network#multiple_ip_addresses. In both cases, addresses are added to the same interface. It is not possible to create 2nd firewall zone, like WAN2, because all iptables rules are using physical interface name to connect iptables chain, and physical interface is the same.

Better is to create second OpenWRT interface "WAN2" but assign it to firewall zone "WAN". To use other external IP firewall needs to be configured manually by:

| [/etc/firewall.user](#)

```
iptables -A input_wan_rule -d $WAN2_NET/29 -j reject
iptables -t nat -A prerouting_wan_rule -p tcp -d $WAN2_IP3 --dport 80
-j DNAT --to-destination 192.168.0.90:80 -m comment --comment "Web
server"

# goal is to do not pass into default WAN rules
iptables -t nat -A prerouting_wan_rule -d $WAN2_NET/29 -j ACCEPT
```

PXE boot

[/etc/dnsmasq.conf](#)

```
# set tag "ENH" if request comes from iPXE ("iPXE" user class)
dhcp-userclass=set:ENH,iPXE

# alternative way, look for option 175
#dhcp-match=set:ENH,175

# UNDI
dhcp-boot=tag:!ENH,netboot.xyz-undionly.kpxe,myserver,192.168.0.231

# PXE
dhcp-boot=tag:ENH,netboot.xyz.kpxe,myserver,192.168.0.231
```

Backup

<https://wiki.openwrt.org/doc/howto/generic.backup>

Periodic reboot

cron job

```
# Reboot at 4:30am every day
# Note: To avoid infinite reboot loop, wait 70 seconds
# and touch a file in /etc so clock will be set
# properly to 4:31 on reboot before cron starts.
30 4 * * * sleep 70 && touch /etc/banner && reboot
```

or independent on system time

```
30 4 * * * [ $( cat /proc/uptime | cut -d '.' -f 1 ) -gt 3600 ] && reboot
```

watchcat

```
opkg install watchcat luci-app-watchcat
```

And luci menu will be available under Services

Issues

Problem: Port-forwarded traffic are always from router local IP instead of real external IP address.

Solution: Disable masq option for LAN zone (should be only on WAN) zone

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