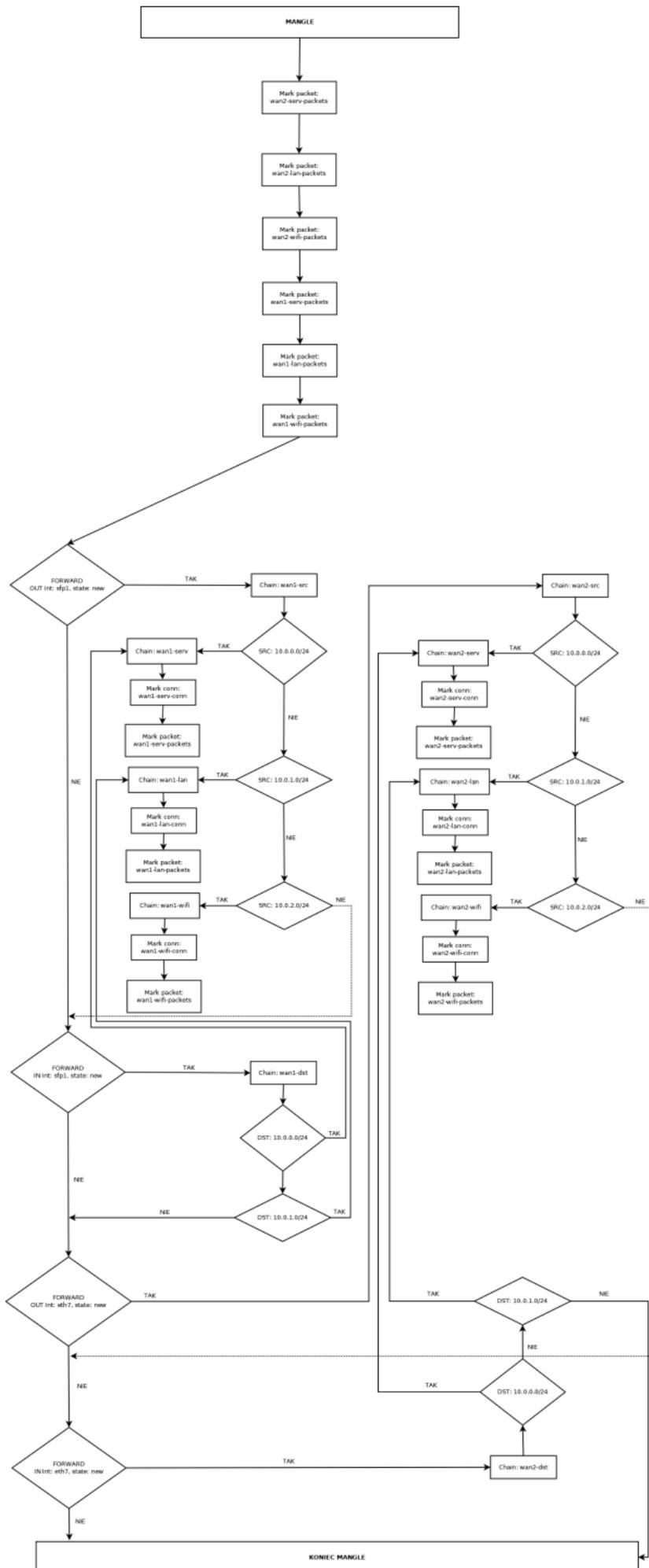


QoS - dwa łącza i kolejki drzewiaste

Schemat:

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Komendy Mikrotika do w/w konfiguracji i łączy o przepustowości 20/20Mbps i 50/10Mbps:

```
/ip firewall mangle
add action=mark-packet chain=prerouting comment="QoS wan2" connection-
mark=wan2-serv-conn new-packet-mark=wan2-serv-packets passthrough=no
add action=mark-packet chain=prerouting connection-mark=wan2-lan-conn new-
packet-mark=wan2-lan-packets passthrough=no
add action=mark-packet chain=prerouting connection-mark=wan2-wifi-conn new-
packet-mark=wan2-wifi-packets passthrough=no
add action=jump chain=forward connection-state=new jump-target=wan2-src out-
interface=eth7
add action=jump chain=wan2-src jump-target=wan2-serv src-address=10.0.0.0/24
add action=mark-connection chain=wan2-serv new-connection-mark=wan2-serv-
conn passthrough=yes
add action=mark-packet chain=wan2-serv connection-mark=wan2-serv-conn new-
packet-mark=wan2-serv-packets passthrough=no
add action=jump chain=wan2-src jump-target=wan2-lan src-address=10.0.1.0/24
add action=mark-connection chain=wan2-lan new-connection-mark=wan2-lan-conn
passthrough=yes
add action=mark-packet chain=wan2-lan connection-mark=wan2-lan-conn new-
packet-mark=wan2-lan-packets passthrough=no
add action=jump chain=wan2-src jump-target=wan2-wifi src-address=10.0.2.0/24
add action=mark-connection chain=wan2-wifi new-connection-mark=wan2-wifi-
conn passthrough=yes
add action=mark-packet chain=wan2-wifi connection-mark=wan2-wifi-conn new-
packet-mark=wan2-wifi-packets passthrough=no
add action=jump chain=forward connection-state=new in-interface=eth7 jump-
target=wan2-dst
add action=jump chain=wan2-dst dst-address=10.0.0.0/24 jump-target=wan2-serv
add action=jump chain=wan1-dst dst-address=10.0.1.0/24 jump-target=wan2-lan
add action=mark-packet chain=prerouting comment="QoS wan1" connection-
mark=wan1-serv-conn new-packet-mark=wan1-serv-packets passthrough=no
add action=mark-packet chain=prerouting connection-mark=wan1-lan-conn new-
packet-mark=wan1-lan-packets passthrough=no
add action=mark-packet chain=prerouting connection-mark=wan1-wifi-conn new-
packet-mark=wan1-wifi-packets passthrough=no
add action=jump chain=forward connection-state=new jump-target=wan1-src out-
interface=sfp1
add action=jump chain=wan1-src jump-target=wan1-serv src-address=10.0.0.0/24
add action=mark-connection chain=wan1-serv new-connection-mark=wan1-serv-
conn passthrough=yes
add action=mark-packet chain=wan1-serv connection-mark=wan1-serv-conn new-
packet-mark=wan1-serv-packets passthrough=no
add action=jump chain=wan1-src jump-target=wan1-lan src-address=10.0.1.0/24
add action=mark-connection chain=wan1-lan new-connection-mark=wan1-lan-conn
passthrough=yes
add action=mark-packet chain=wan1-lan connection-mark=wan1-lan-conn new-
packet-mark=wan1-lan-packets passthrough=no
add action=jump chain=wan1-src jump-target=wan1-wifi src-address=10.0.2.0/24
add action=mark-connection chain=wan1-wifi new-connection-mark=wan1-wifi-
```

```
conn passthrough=yes
add action=mark-packet chain=wan1-wifi connection-mark=wan1-wifi-conn new-
packet-mark=wan1-wifi-packets passthrough=no
add action=jump chain=forward connection-state=new in-interface=sfp1-wan-
wan1 jump-target=wan1-dst
add action=jump chain=wan1-dst dst-address=10.0.0.0/24 jump-target=wan1-serv
add action=jump chain=wan2-dst dst-address=10.0.1.0/24 jump-target=wan2-lan
/queue tree
add max-limit=10M name=wan2-upload parent=eth7
add limit-at=4M max-limit=10M name=wan2-upload-lan packet-mark=wan2-lan-
packets parent=wan2-upload priority=2 queue=pcq-upload-default
add limit-at=4M max-limit=10M name=wan2-upload-serv packet-mark=wan2-serv-
packets parent=wan2-upload priority=1 queue=pcq-upload-default
add limit-at=1M max-limit=10M name=wan2-upload-wifi packet-mark=wan2-wifi-
packets parent=wan2-upload priority=4 queue=pcq-upload-default
add max-limit=20M name=wan1-upload parent=sfp1
add limit-at=4M max-limit=20M name=wan1-upload-serv packet-mark=wan1-serv-
packets parent=wan1-upload priority=1 queue=pcq-upload-default
add limit-at=4M max-limit=20M name=wan1-upload-lan packet-mark=wan1-lan-
packets parent=wan1-upload priority=2 queue=pcq-upload-default
add limit-at=1M max-limit=20M name=wan1-upload-wifi packet-mark=wan1-wifi-
packets parent=wan1-upload priority=4 queue=pcq-upload-default
add max-limit=1024M name=serv parent=eth2
add limit-at=8M max-limit=50M name=serv-wan2 packet-mark=wan2-serv-packets
parent=serv priority=1 queue=pcq-download-default
add limit-at=8M max-limit=20M name=serv-wan1 packet-mark=wan1-serv-packets
parent=serv priority=1 queue=pcq-download-default
add max-limit=1024M name=lan parent=eth3
add limit-at=8M max-limit=20M name=lan-wan1 packet-mark=wan1-lan-packets
parent=lan priority=2 queue=pcq-download-default
add limit-at=8M max-limit=50M name=lan-wan2 packet-mark=wan2-lan-packets
parent=lan priority=2 queue=pcq-download-default
add max-limit=1024M name=wifi parent=eth5-wifi
add limit-at=2M max-limit=50M name=wifi-wan2 packet-mark=wan2-wifi-packets
parent=wifi priority=4 queue=pcq-download-default
add limit-at=2M max-limit=20M name=wifi-wan1 packet-mark=wan1-wifi-packets
parent=wifi priority=4 queue=pcq-download-default
```

W firewallu nie dodaliśmy markowania pakietów, jak by ktoś się łączył do sieci wifi ponieważ nie założyłem, że przekierowania portów będą dotyczyły sieci wifi.

Objaśnienie:

- eth2 - serwery,
- eth3 - userzy,
- eth5 - wifi,
- eth7 - ISP2,
- sfp1 - ISP1.

Zagwarantowałem łącze dla podsieci:

- serwerowej: 8/4Mbps (priorytet 1) - 10.0.0.0/24,

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- userów: 8/4Mbps (priorytet 2) - 10.0.1.0/24,
- wifi: 2/1Mbps (priorytet 4) - 10.0.2.0/24.

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