

# Manual: Hotspot with PCC

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## Summary

Simple example on hotspot server with load balancing setup for two WAN interfaces done by PCC method on the same router.



**Note:** for full explanation on PCC configuration refer to PCC manual.

## What needs to be changed in default PCC configuration

Configuration differs from standard PCC setup by just one argument **hotspot=auth** in mangle PCC rules

```
add action=mark-connection chain=prerouting connection-mark=no-mark \
dst-address-type=!local hotspot=auth in-interface=wlan1 \
new-connection-mark=ISP1_conn passthrough=yes per-connection-classifier=\
both-addresses:2/0
add action=mark-connection chain=prerouting connection-mark=no-mark \
dst-address-type=!local hotspot=auth in-interface=wlan1 \
new-connection-mark=ISP2_conn passthrough=yes per-connection-classifier=\
both-addresses:2/1
```

# Full configuration printout

```
/ip hotspot profile
add hotspot-address=172.16.100.254 name=hsprof1
/ip pool
add name=hs-pool-6 ranges=172.16.100.10-172.16.100.20
/ip dhcp-server
add address-pool=hs-pool-6 disabled=no interface=wlan1 lease-time=1h name=\
dhcp1
/ip hotspot
add address-pool=hs-pool-6 disabled=no interface=wlan1 name=hotspot1 profile=\
hsprof1
/tool user-manager customer
set admin access=\
    own-routers,own-users,own-profiles,own-limits,config-payment-gw
/tool user-manager profile
add name=test name-for-users="" override-shared-users=off owner=admin price=0 \
starts-at=logon validity=0s
/ip address
add address=192.168.40.1/24 interface=ether4 network=192.168.40.0
add address=192.168.50.1/24 interface=ether5 network=192.168.50.0
add address=172.16.100.254/24 interface=wlan1 network=172.16.100.0
/ip dhcp-server network
add address=172.16.100.0/24 comment="hotspot network" dns-server=\
8.8.8.8 gateway=172.16.100.254
/ip firewall filter
add action=passthrough chain=unused-hs-chain comment=\
"place hotspot rules here" disabled=yes
/ip firewall mangle
add action=accept chain=prerouting dst-address=192.168.40.0/24 in-interface=\
wlan1
add action=accept chain=prerouting dst-address=192.168.50.0/24 in-interface=\
wlan1
add action=mark-connection chain=prerouting connection-mark=no-mark \
in-interface=ether4 new-connection-mark=ISP1_conn
add action=mark-connection chain=prerouting connection-mark=no-mark \
in-interface=ether5 new-connection-mark=ISP2_conn
add action=mark-connection chain=prerouting connection-mark=no-mark \
dst-address-type=!local hotspot=auth in-interface=wlan1 \
new-connection-mark=ISP1_conn passthrough=yes per-connection-classifier=\
both-addresses:2/0
add action=mark-connection chain=prerouting connection-mark=no-mark \
dst-address-type=!local hotspot=auth in-interface=wlan1 \
new-connection-mark=ISP2_conn passthrough=yes per-connection-classifier=\
both-addresses:2/1
add action=mark-routing chain=prerouting connection-mark=ISP1_conn \
in-interface=wlan1 new-routing-mark=to_ISP1
add action=mark-routing chain=prerouting connection-mark=ISP2_conn \
in-interface=wlan1 new-routing-mark=to_ISP2
add action=mark-routing chain=output connection-mark=ISP1_conn \
new-routing-mark=to_ISP1
add action=mark-routing chain=output connection-mark=ISP2_conn \
new-routing-mark=to_ISP2
/ip firewall nat
add action=passthrough chain=unused-hs-chain comment=\
"place hotspot rules here" disabled=yes
add action=masquerade chain=srcnat out-interface=ether4
add action=masquerade chain=srcnat out-interface=ether5
/ip hotspot user
add name=admin
/ip route
add check-gateway=ping distance=1 gateway=192.168.40.254 routing-mark=to_ISP1
add check-gateway=ping distance=1 gateway=192.168.50.254 routing-mark=to_ISP2
add check-gateway=ping distance=1 gateway=192.168.40.254
add check-gateway=ping distance=2 gateway=192.168.50.254
/system identity
set name=HS-router
```

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