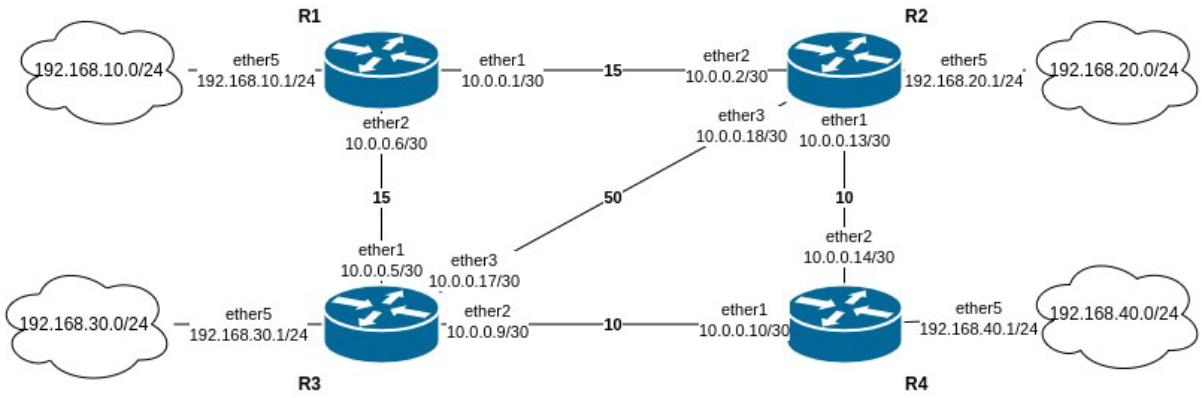
OSPF

In diesem Protokoll wird die Konfiguration für Router 2 angezeigt

Inhaltsverzeichnis

Skizze:



Verbindung:

Um eine Verbindung mit dem MikroTik herzustellen, muss man in **winbox** unter „Connect To:“ **hapac2-xx.intra** eingeben und bei Password muss **Mikrotik** stehen

Danach ist die Verbindung möglich

Konfiguration:

Ip-Adressen:

/ip/address/add address=xxx interface=etherX network=xxxx

```
[admin@Router2] > /ip/address/add address=10.0.0.2/30 interface=ether2 network=10.0.0.0
[admin@Router2] > /ip/address/add address=192.168.20.1 interface=ether5 network=192.168.20.0
[admin@Router2] > /ip/address/add address=10.0.0.18/30 interface=ether3 network=10.0.0.16
[admin@Router2] >
```

OSPF:

```
[admin@Router2] > /routing/ospf/instance/add disabled=no name=OSPFInst2 redistribute=connected  router-id=10.0.0.2
[admin@Router2] > /routing/ospf/area/add disabled=no instance=OSPFInst2 name=backbone
[admin@Router2] >
```

Kosten angeben:

```
[admin@Router2] > /routing/ospf/interface-template/add area=backbone cost=15 disabled=no interfaces=ether2
[admin@Router2] > /routing/ospf/interface-template/add area=backbone cost=10 disabled=no interfaces=ether1
[admin@Router2] > /routing/ospf/interface-template/add area=backbone cost=50 disabled=no interfaces=ether3
[admin@Router2] >
```

Testfälle

Ping:

Zum Testfall würde der Router 3 gepingt

```
[admin@Router2] > ping 10.0.0.5
  SEQ HOST                                     SIZE TTL TIME       STATUS
    0 10.0.0.5                                   56  64 543us
    1 10.0.0.5                                   56  64 560us
    2 10.0.0.5                                   56  64 548us
    3 10.0.0.5                                   56  64 505us
    4 10.0.0.5                                   56  64 551us
    sent=5 received=5 packet-loss=0% min-rtt=505us avg-rtt=541us max-rtt=560us
```

Traceroute:

Da Router 2 direkt mit Router 3 verbunden ist, wird angezeigt das es nur einen Hops braucht

```
[admin@Router2] > /tool traceroute address=10.0.0.5
Columns: ADDRESS, LOSS, SENT, LAST, AVG, BEST, WORST, STD-DEV
#   ADDRESS    LOSS   SENT   LAST    AVG   BEST   WORST   STD-DEV
1   10.0.0.5   0%       69   0.5ms   0.5   0.4    0.6           0
-- [Q quit|D dump|C-z pause]
```

Von Router 2 zu Router 3

```
[admin@Router2] > /tool traceroute address=10.0.0.1
Columns: ADDRESS, LOSS, SENT, LAST, AVG, BEST, WORST, STD-DEV
#   ADDRESS     LOSS   SENT   LAST    AVG   BEST   WORST   STD-DEV
1   10.0.0.17   0%       16   0.5ms   0.5   0.4    0.5     0
2   10.0.0.1    0%       16   0.4ms   0.5   0.4    0.5     0.1
-- [Q quit|D dump|C-z pause]
```