# Routerkonfiguration Routingprotokolle

| | RIP | RIPv2 | EIGRP | OSPF |
|---|---|---|---|---|
| aktivieren | `R(config)# router rip` | `R(config)# router rip`<br>`R(config-router)# version 2` | `R(config)# router eigrp 1`<br>Autonomes System (1 - 65535) | `R(config)# router ospf 1`<br>Process-ID (1 - 65535) |
| Schnittstellen | `R(config-router)# network 1.0.0.0` | | `R(config-router)# network 1.0.0.0`<br>`0.0.0.255` | `R(config-router)# network 1.0.0.0`<br>`0.0.0.255 area 0` |
| | `R(config-router)# passive-interface Fa0/0` | | | |
| | – | | `R(config-if)# bandwidth 56   (in kbps)` | `R(config-if)# bandwidth 128`<br>`R(config-if)# ip ospf cost 1568` |
| Netze nicht zusammenfassen | – | `R(config-router)# no auto-summary` | | – |
| Netze zusammenfassen | | | `R(config-if)# ip summary-address`<br>`eigrp 1  1.0.0.0  255.255.0.0  5`<br>(Adm. D.) | |
| statische Routen weiterleiten | `R(config-router)# redistribute static` | | | |
| Defaultroute weiterleiten | `R(config-router)# default-information originate` | – | | `R(config-router)# default-information originate` |
| Routen anderer Protokolle weiterleiten | `R(config-router)# redistribute eigrp 1 metric ...`<br>`R(config-router)# redistribute ospf 1 metric ...` | | `R(config-router)# redistribute rip`<br>`metric ...`<br>`R(config-router)# redistribute ospf 1`<br>`metric ...` | `R(config-router)# redistribute rip subnets`<br>`R(config-router)# redistribute eigrp 1 subnets` |
| Spezielle Befehle | `R(config-router)# timers basic 30 90 180 270 360`<br>update, invalid, hold-down, flush (s), sleep (ms) | | `R(config-router)# metric weights`<br>`0 1 0 1 0 0`<br>tos, k1, k2, k3, k4, k5 | `R(config-router)# router-id 1.2.3.4`<br>`R(config-if)# ip ospf priority 5`<br>`R(config-if)# ip ospf hello-interval 50` |
| show | `R# show ip route`<br>`R# show ip protocols` | | | |
| | `R# show ip rip database` | | `R# show ip eigrp interfaces`<br>`R# show ip eigrp neighbors`<br>`R# show ip eigrp topology`<br>`R# show ip eigrp traffic` | `R# show ip ospf`<br>`R# show ip ospf border-routers`<br>`R# show ip ospf interface`<br>`R# show ip ospf neighbor`<br>`R# show ip ospf database` |
| debug | `R# debug ip routing` | | | |
| | `R# debug ip rip`<br>`R# debug ip rip events` | | `R# debug eigrp fsm`<br>`R# debug eigrp packets` | `R# debug ip ospf adj`<br>`R# debug ip ospf events` |