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| **Failover** |

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| Failover routes are manually configured routes, but they install to the routing table if the |

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| health-check target is alive. If the target is not alive the route is removed from the |

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| routing table until the target will be available. |

**Failover Routes**

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| **set protocols failover route <subnet> next-hop <address> check target <target-address>** |

Configure next-hop *<address>* and *<target-address>* for an IPv4 static route. Specify the target IPv4 address for health checking.

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| **set protocols failover route <subnet> next-hop <address> check timeout <timeout>** |

Timeout in seconds between health target checks.

Range is 1 to 300, default is 10.

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| **set protocols failover route <subnet> next-hop <address> check type <protocol>** |

Defines protocols for checking ARP, ICMP, TCP

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| Default is icmp .   |  | | --- | |  | |

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| **set protocols failover route <subnet> next-hop <address> check policy <policy>** |

Policy for checking targets

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|   | |  | | --- | |  |   all-available all checking target addresses must be available to pass this check   |  | | --- | |  |   any-available any of the checking target addresses must be available to pass this check |

Default is any-available .

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| **set protocols failover route <subnet> next-hop <address> interface <interface>** |

Next-hop interface for the route

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| **set protocols failover route <subnet> next-hop <address> metric <metric>** |

Route metric

Default 1.

**Example**

**One gateway:**

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| set protocols failover route 203.0.113.1/32 next-hop 192.0.2.1 check target '192.0.2.1' set protocols failover route 203.0.113.1/32 next-hop 192.0.2.1 check timeout '5' set protocols failover route 203.0.113.1/32 next-hop 192.0.2.1 check type 'icmp' set protocols failover route 203.0.113.1/32 next-hop 192.0.2.1 interface 'eth0' set protocols failover route 203.0.113.1/32 next-hop 192.0.2.1 metric '10' |

Show the route

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| vyos@vyos:~$ show ip route 203.0.113.1  Routing entry for 203.0.113.1/32  Known via "kernel", distance 0, metric 10, best  Last update 00:00:39 ago  \* 192.0.2.1, via eth0 |

**Two gateways and different metrics:**

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| set protocols failover route 203.0.113.1/32 next-hop 192.0.2.1 check target '192.0.2.1' set protocols failover route 203.0.113.1/32 next-hop 192.0.2.1 check timeout '5' set protocols failover route 203.0.113.1/32 next-hop 192.0.2.1 check type 'icmp' set protocols failover route 203.0.113.1/32 next-hop 192.0.2.1 interface 'eth0' set protocols failover route 203.0.113.1/32 next-hop 192.0.2.1 metric '10' |

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| set protocols failover route 203.0.113.1/32 next-hop 198.51.100.1 check target '198.51.100.99' set protocols failover route 203.0.113.1/32 next-hop 198.51.100.1 check timeout '5'  set protocols failover route 203.0.113.1/32 next-hop 198.51.100.1 check type 'icmp'  set protocols failover route 203.0.113.1/32 next-hop 198.51.100.1 interface 'eth2'  set protocols failover route 203.0.113.1/32 next-hop 198.51.100.1 metric '20' |

Show the route

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| vyos@vyos:~$ show ip route 203.0.113.1  Routing entry for 203.0.113.1/32  Known via "kernel", distance 0, metric 10, best  Last update 00:08:06 ago  \* 192.0.2.1, via eth0 |

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| Routing entry for 203.0.113.1/32  Known via "kernel", distance 0, metric 20 Last update 00:08:14 ago  \* 198.51.100.1, via eth2 |