

IP SLA Configurations

The problem

static route will always remain in the routing table unless the interface goes down. It's possible that the link towards ISP1 is up and running but that the ISP1 router itself is unreachable or that ISP1 has problems on their network that prevents us from reaching the Internet through them. This is why we'll use IP SLA to make our default route more reliable.

Configuration

```
ip sla <arbitrary object number>
  icmp-echo <ip address to ping> source-ip 192.168.0.192
  frequency 10
exit

ip sla schedule 1 life forever start-time now

track 1 ip sla 1 reachability

ip route 0.0.0.0 0.0.0.0 63.1.29.2 track 1
```

Verifications

```
show ip sla statistics

show ip route static
```

Example output

```
R1# show ip sla statistics

Round Trip Time (RTT) for Index 1
  Latest RTT: 4 milliseconds
Latest operation start time: *00:09:07.235 UTC Fri Mar 1 2002
Latest operation return code: OK
Number of successes: 43
```

Number of failures: 1

Operation time to live: Forever

R1# show ip route static

S* 0.0.0.0/0 [2/0] via 192.168.13.3