This is a Cisco IOS IP SLA config which alows you to monitor whether your internet connection alive or not. It is supposed to be configured on your internet edge router if you have primary and backup connection to the internet. It also suits when you have two edge routers and would like to dynamically advertise internet availability to the internal corporate LAN through OSPF (tweak OSPF metric on the second box accordingly).

IP SLA used with nested, hierarchical configuration with multiple checks. Primary 0/0 static tied to a high level ‘track 1’ and dissapears from routing table when 2 out of 5 targets are down and installed back when 3 out of 5 targets are up.

10.x.x.x considered as various internet resources (targets) with 100% availability. I would highly recommend you to point those IPs with static routes (marked ‘SLA’ below) to prevent SLA checks execution through unwanted channel/ISP.

192.168.x.1 as ISP gateways.

Nested IP SLA config

```
track 1 list threshold percentage
 object 11
 object 12
 object 13
 object 14
 object 15
 threshold percentage down 40 up 60
!
track 11 ip sla 11 reachability
 delay down 30 up 30
!
track 12 ip sla 12 reachability
 delay down 30 up 30
!
track 13 ip sla 13 reachability
 delay down 30 up 30
!
track 14 ip sla 14 reachability
 delay down 30 up 30
!
track 15 ip sla 15 reachability
 delay down 30 up 30
!
!
ip sla 11
 icmp-echo 10.1.1.1 source-interface GigabitEthernet0/0
 request-data-size 1000
 threshold 200
 timeout 300
 frequency 6
!
ip sla 12
```

```
 icmp-echo 10.2.2.2 source-interface  GigabitEthernet0/0
 request-data-size 1000
 threshold 200
 timeout 300
 frequency 6
!
ip sla 13
 icmp-echo 10.3.3.3 source-interface GigabitEthernet0/0
 request-data-size 1000
 threshold 200
 timeout 300
 frequency 6
!
ip sla 14
 icmp-echo 10.4.4.4 source-interface GigabitEthernet0/0
 request-data-size 1000
 threshold 200
 timeout 300
 frequency 6
!
ip sla 15
 icmp-echo 10.5.5.5 source-interface GigabitEthernet0/0
 request-data-size 1000
 threshold 200
 timeout 300
 frequency 6
ip sla group schedule 1 11-15 schedule-period 30 frequency  range 3-5 start-time now life forever
!
router ospf 1
 default-information originate metric 10 metric-type 1
!
ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/0 192.168.1.1  track 1 name INET-PRI
ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/1 192.168.2.1 250  name INET-BACKUP
ip route 10.1.1.1 255.255.255.255 gi0/0 192.0.1.1 name SLA
ip route 10.2.2.2 255.255.255.255 gi0/0 192.0.1.1 name SLA
ip route 10.3.3.3 255.255.255.255 gi0/0 192.0.1.1 name SLA
ip route 10.4.4.4 255.255.255.255 gi0/0 192.0.1.1 name SLA
ip route 10.5.5.5 255.255.255.255 gi0/0 192.0.1.1 name SLA
```