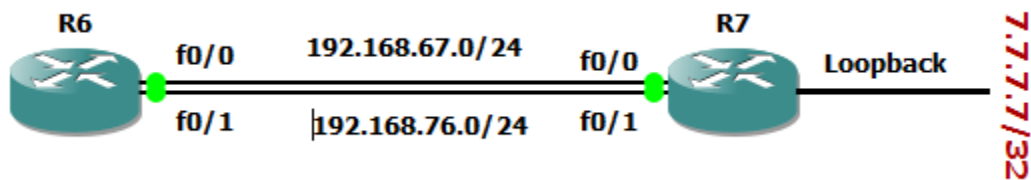


EIGRP Load Balancing:

Load balancing is a router's capability to distribute traffic over all of its network ports that are the same metric from the destination address. By default, the Cisco IOS balances between a maximum of four equal-cost paths for IP.

EIGRP Equal Cost:

By default, EIGRP supports equal-cost load balancing over four links. Equal-cost means that multiple routes must have the same metric to reach a destination, so that router can choose to load balance across equal cost links. Using *maximum-path* router configuration command, to request up to 16 equally good routes to be kept in the routing table. Set *maximum-path* to 1 to disable load balancing.



Commands	Description
(config)#router eigrp 1	Apply this on both R6 and R7
(config-router)#no auto-summary	Disable auto summary
(config-router)#network 0.0.0.0	Enable EIGRP for all networks
R6#show ip route eigrp	Check routing table for EIGRP equal 2 paths
R6#show ip eigrp topology	Check EIGRP topology table for all paths
R6(config)#router eigrp 1	Enters EIGRP routing mode
R6(config-router)# maximum-paths 1	To disable equal cost load balancing set 1
R6#show ip route eigrp	Check routing table for EIGRP now 1 path
R6(config)#router eigrp 1	Enters EIGRP routing mode
R6(config-router)# maximum-paths 4	Enable back equal cost load balancing