

EIGRP : UNEQUAL-COST LOAD-BALANCED

```
R1#show ip protocols

Routing Protocol is "eigrp 100 "
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Default networks flagged in outgoing updates
  Default networks accepted from incoming updates
  EIGRP metric weight K1=1, K2=0, K3=1, K4=0, K5=0
  EIGRP maximum hopcount 100
  EIGRP maximum metric variance 1
```

“maximum metric variance 1” = the DEFAULT value

Variance 1 = only ECMP (Equal-Cost Multiple Path) load-balancing will be performed

```
R1(config-router)#variance ?
<1-128> Metric variance Multiplier
R1(config-router)#variance 2
```

Variance 2 = feasible successor routes with an FD up to 2x the successor route's FD can be used to load-balance

 EIGRP will only perform UNEQUAL-COST LOAD-BALANCING over feasible successor

ROUTES. If a ROUTE doesn't meet the feasibility condition, it will NEVER be selected for load-balancing, regardless of variance