

Source	Administrative Distance
Directly connected	0
Static route	1
EIGRP summary	5
External BGP	20
EIGRP	90
IGRP	100
OSPF	110
IS-IS	115
RIP	120
ODR	160
External EIGRP	170

Internal BGP	200
Unknown	255

How to configure Administrative Distance

When two or more sources are giving you information about a certain prefix you need to choose which information you are going to use. For example OSPF might tell you to go “left” if you want to reach network X, EIGRP might tell you that you need to go “right”. Who do you trust? OSPF or EIGRP? You can’t put both in the routing table for network X.

The **administrative distance** solves this problem. When two sources give us information about the **exact same network** we’ll have to make a decision and it’s done by looking at the administrative distance. Let me show you the different values:

The lower the better...as you can see EIGRP has a lower administrative distance (90) than OSPF (110) so we will use EIGRP in my example.

Keep in mind:

- The administrative distance is only **local** and can be different for each router.
- The administrative distance can be modified.