



Border Gateway Protocol with MikroTik

| Path Selection in RouterOS | | | |
|----------------------------|------------------------------|---|--------------------------------|
| Order | Attribute | Description | Default Value |
| | | | eBGP=self iBGP=Recursive |
| 1 | Next Hop Validation | Next hop is self or recursive | |
| 2 | Weight | Local metric (Higher is more preferred) | 0 |
| 3 | Local preference | Only within an AS (iBGP Only – Lower is preferred) | 100 |
| 4 | Shortest AS Path | Skipped if ignore-as-path is set Each AS set counts as 1 | N/A |
| 5 | Locally Originated | via aggregate or BGP network | N/A |
| 6 | Origin | Lowest (IGP < EGP < INCOMPLETE) (EGB is unusual) | N/A |
| 7 | MED | Lowest | 0 |
| 8 | eBGP | Evaluate IGP metrics | N/A |
| 9 | iBGP | Evaluate IGP metrics | N/A |
| 10 | Router ID Route Reflector | Use lowest; if route carries Originator ID, use that instead | Lowest IP address on router |
| 11 | Cluster List | Shortest | 0 |

| Default Scope & Target Scope | | |
|------------------------------|------------|--------------|
| Scope | Route Type | Target Scope |
| | Connected | |
| 10 | Active | N/A |
| | OSPF, RIP | |
| 20 | MME | 10 |
| 30 | Static | 10 |
| 40 | eBGP | 10 |
| 40 | iBGP | 30 |
| | Connected | |
| 20 | inactive | N/A |

| Default Route Distances | |
|-------------------------|-----|
| Connected | 0 |
| Static | 1 |
| eBGP | 20 |
| OSPF | 110 |
| RIP | 120 |
| MME | 130 |
| iBGP | 200 |