# BGP Path Selection and Configuration for Cisco's ENCOR (350–401) Exam

#### by Kevin Wallace Training, LLC

<b>Path Selection Parameter</b>	Description
Weight	A locally significant, Cisco-specific parameter that a router can set when receiving updates. A higher Weight is preferred. Commonly used to influence outbound routing decisions.
Local Preference	A parameter communicated throughout a single AS. A higher Local Preference is preferred. Commonly used to influence outbound routing decisions.
Originate	Paths sourced locally are preferred.
AS Path Length	The number of autonomous systems in the AS_PATH path attribute. Lower AS path lengths are preferred.
Origin Type	Indicates how the route was injected into BGP: i (network command), e (EGP), or ? (redistributed). i is preferred to e, and e is preferred to ?.
Multi-Exit Discriminator (MED)	A parameter set and advertised by routers in one AS to influence the BGP path selection decisions of routers in another AS. A lower MED is preferred.
<b>Paths</b>	Prefer eBGP path over iBGP path.
Router ID	A tie breaker, where the route received from the router with the lowest router ID is nreferred.

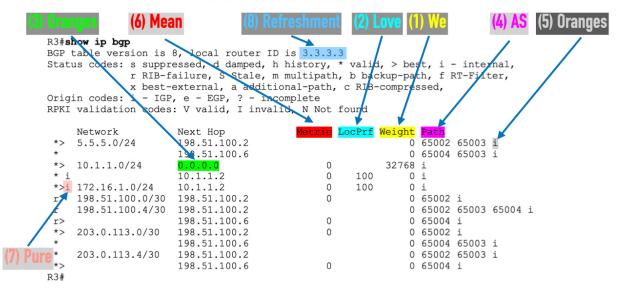
Weight	
Local Preference	
Originate Originate	
AS Path Length	
Origin Type	
Multi-Exit Discriminator (MED)	
Paths	
Router ID	

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#### **BGP Path Selection**



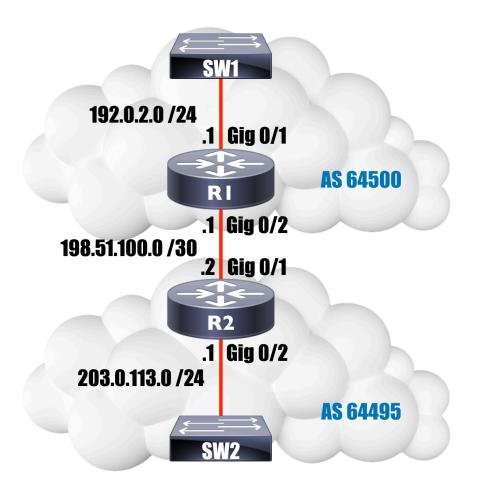
```
R1#conf term
R1 (config) #router bgp 64500
R1 (config-router) #neighbor 198.51.100.2 remote-as 64495
R1 (config-router) #network 192.0.2.0 mask 255.255.255.0
R1 (config-router) #end
```

#### **R2**:

R1#

**R1**:

```
R1#conf term
R1(config) #router bgp 64495
R1(config-router) #neighbor 198.51.100.1 remote-as 64500
R1(config-router) #network 203.0.113.0 mask 255.255.255.0
R1(config-router) #end
R1#show ip route
R1#show ip bgp
```



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