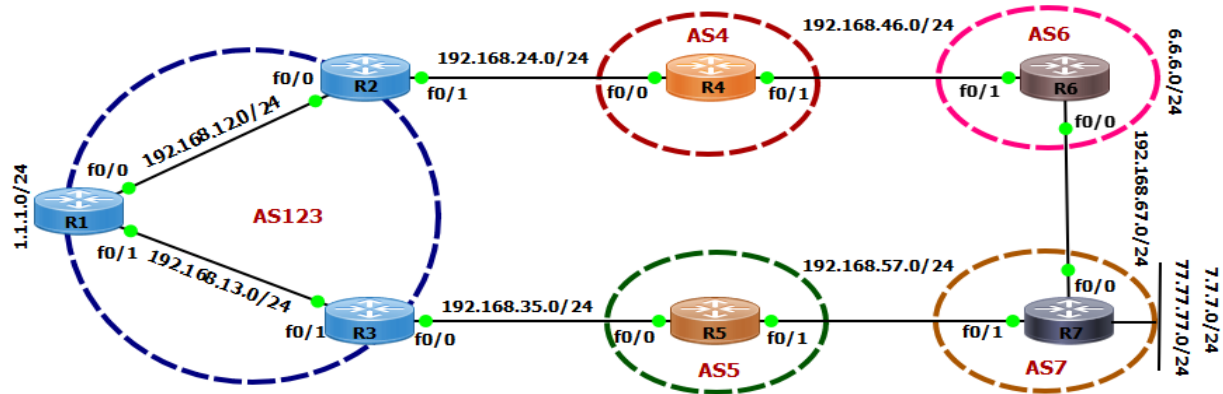


BGP Best Path Selection Lab:



<p>R1 Configuration</p> <pre>interface f0/0 ip add 192.168.12.1 255.255.255.0 no shutdown interface f0/1 ip add 192.168.13.1 255.255.255.0 no shutdown interface loopback1 ip add 1.1.1.1 255.255.255.0</pre>	<p>R2 Configuration</p> <pre>interface f0/0 ip add 192.168.12.2 255.255.255.0 no shutdown interface f0/1 ip add 192.168.24.2 255.255.255.0 no shutdown</pre>
<p>R3 Configuration</p> <pre>interface f0/0 ip add 192.168.35.3 255.255.255.0 no shutdown interface f0/1 ip add 192.168.13.3 255.255.255.0 no shutdown</pre>	<p>R4 Configuration</p> <pre>interface f0/0 ip add 192.168.24.4 255.255.255.0 no shutdown interface f0/1 ip add 192.168.46.4 255.255.255.0 no shutdown</pre>
<p>R5 Configuration</p> <pre>interface f0/0 ip add 192.168.35.5 255.255.255.0 no shutdown interface f0/1 ip add 192.168.57.5 255.255.255.0 no shutdown</pre>	<p>R6 Configuration</p> <pre>interface f0/0 ip add 192.168.67.6 255.255.255.0 no shutdown interface f0/1 ip add 192.168.46.6 255.255.255.0 no shutdown interface loopback6 ip add 6.6.6.6 255.255.255.0</pre>

R7 Configuration	
<pre>interface f0/0 ip add 192.168.67.7 255.255.255.0 no shutdown interface f0/1 ip add 192.168.57.7 255.255.255.0 no shutdown</pre>	<pre>interface loopback7 ip add 7.7.7.7 255.255.255.0 interface loopback77 ip add 77.77.77.77 255.255.255.0</pre>

BGP Configuration on All 7 Routers	
R1 Configuration	R2 Configuration
<pre>router bgp 123 neighbor 192.168.12.2 remote-as 123 neighbor 192.168.13.3 remote-as 123 network 1.1.1.0 mask 255.255.255.0</pre>	<pre>router bgp 123 neighbor 192.168.12.1 remote-as 123 neighbor 192.168.24.4 remote-as 4 neighbor 192.168.12.1 next-hop-self</pre>
R3 Configuration	R4 Configuration
<pre>router bgp 123 neighbor 192.168.13.1 remote-as 123 neighbor 192.168.35.5 remote-as 5 neighbor 192.168.13.1 next-hop-self</pre>	<pre>router bgp 4 neighbor 192.168.24.2 remote-as 123 neighbor 192.168.46.6 remote-as 6</pre>
R5 Configuration	R6 Configuration
<pre>router bgp 5 neighbor 192.168.35.3 remote-as 123 neighbor 192.168.57.7 remote-as 7</pre>	<pre>router bgp 6 neighbor 192.168.46.4 remote-as 4 neighbor 192.168.67.7 remote-as 7 network 6.6.6.0 mask 255.255.255.0</pre>
R7 Configuration	
<pre>router bgp 7 neighbor 192.168.57.5 remote-as 5 neighbor 192.168.67.6 remote-as 6 network 7.7.7.0 mask 255.255.255.0 network 77.77.77.0 mask 255.255.255.0</pre>	

R1 Weight Attribute Tune	R1 Local Preference Attribute Tune
<pre>route-map WT 10 set weight 800 router bgp 123 neighbor 192.168.13.3 route-map WT in</pre>	<pre>route-map LOCALPREF 10 set local-preference 500 router bgp 123 neighbor 192.168.13.3 route-map LOCALPREF in</pre>
R6 Path Attribute Tune	
<pre>access-list 6 permit 6.6.6.0 0.0.0.255 route-map PAT 10 match ip add 6 set as-path prepend 6 6 6 exit route-map abc 20 router bgp 6 neighbor 192.168.46.4 route-map PAT out</pre>	