Static Route

Static routing on a switch is a manually configured route that tells the device how to reach a specific network. It doesn't automatically update and is suitable for small or simple networks because the switch doesn't need to learn or calculate routes.

Topology:

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Pre-configuration:
Binding IP addresses on switches.( refer to [Edgecore SONiC] Management and
front-port IPv4 IPv6 Address)
Procedure:
Step 1. Configure static route on both switches
Router A:
admin@Router-A:~$ sudo config route add prefix 192.168.20.0/24 nexthop 10.0.0.1
admin@Router-B:~$ sudo config route add prefix 192.168.10.0/24 nexthop 10.0.0.0
Check the route table
Router A:
admin@Router-A:~$ show ip route
Codes: K - kernel route, C - connected, S - static, R - RIP,
       O - OSPF, I - IS-IS, B - BGP, E - EIGRP, N - NHRP,
       T - Table, v - VNC, V - VNC-Direct, A - Babel, D - SHARP,
       F - PBR, f - OpenFabric,
         - selected route, * - FIB route, q - queued route, r - rejected route
K*0.0.0.0/0 [0/0] via 188.188.1.1, eth0, 01:30:34
C*10.0.0.0/31 is directly connected, Ethernet0, 00:07:03
K*10.0.0.0/32 [0/0] is directly connected, Ethernet0, 00:07:03
C*188.188.0.0/16 is directly connected, eth0, 01:30:34
C*192.168.10.0/24 is directly connected, Ethernet1, 01:16:22
K*192.168.10.254/32 [0/0] is directly connected, Ethernet1, 01:16:22
S*192.168.20.0/24 [1/0] via 10.0.0.1, Ethernet0, 00:06:38
Router B:
admin@Router-B:~$ show ip route
Codes: K - kernel route, C - connected, S - static, R - RIP,
O - OSPF, I - IS-IS, B - BGP, E - EIGRP, N - NHRP,
T - Table, v - VNC, V - VNC-Direct, A - Babel, D - SHARP,
F - PBR, f - OpenFabric,
         - selected route, * - FIB route, q - queued route, r - rejected route
K*0.0.0.0/0 [0/0] via 188.188.1.1, eth0, 01:32:25
C*10.0.0.0/31 is directly connected, Ethernet0, 00:07:03
K*10.0.0.1/32 [0/0] is directly connected, Ethernet0, 00:07:03
C*188.188.0.0/16 is directly connected, eth0, 01:32:25
S*192.168.10.0/24 [1/0] via 10.0.0.0, Ethernet0, 00:00:05
C*192.168.20.0/24 is directly connected, Ethernet1, 01:16:22
K*192.168.20.254/32 [0/0] is directly connected, Ethernet1, 01:16:22
Ping from PC-A to PC-B
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