```
Procedure: Enter Vty shell and BGP ASN
sonic# configure terminal
sonic(config)# router bgp 65101
sonic(config-router)# address-family ipv4 unicast // Enter address-family ipv4
sonic(config-router-af)# redistribute connected
sonic(config-router-af)# redistribute kernel
sonic(config-router-af)# redistribute static
sonic(config-router)# end
Note: This configuration example says that redistribute connected route, kernel
route and static route to BGP process
Address-family: Multiprotocol extensions enable BGP to carry routing information
for multiple network layer protocols. BGP supports an Address Family Identifier
(AFI) for IPv4 and IPv6.
sonic(config-router)# address-family
 ipv4 Address Family
 ipv6 Address Family
 l2vpn Address Family
Note: Route redistribution is used to learn from one routing protocol (static,
connected route, and OSPF ....) available to a different routing protocol.
sonic(config-router-af)# redistribute
  babel Babel routing protocol (Babel) [TBD]
              Connected routes (directly attached subnet or host)
  connected
              Enhanced Interior Gateway Routing Protocol (EIGRP) [TBD]
  eigrp
              Intermediate System to Intermediate System (IS-IS)
  isis
              Kernel routes (not installed via the zebra RIB)
  kernel
              Next Hop Resolution Protocol (NHRP) [TBD]
  nhrp
             OpenFabric Routing Protocol [TBD]
  openfabric
              Open Shortest Path First (OSPFv2)
  ospf
              Routing Information Protocol (RIP) [TBD]
  rip
              Statically configured routes
  static
              Non-main Kernel Routing Table [TBD]
  table
              Virtual Network Control (VNC) [TBD]
  vnc
  vnc-direct VNC direct (not via zebra) routes [TBD]
Note: Currently, SONiC FRRouting supports redistribute connected, isis, kernel,
OSPF, and static only.
       Kernel routes and static routes are different, Kernel routes are
configured by Linux command, and static routes are configured by FRR.
For example:
FRR:
sonic# configure terminal
sonic(config)# ip route 0.0.0.0/0 192.168.1.254
sonic# 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
S>* 0.0.0.0/0 [1/0] via 192.168.1.254, Ethernet48, 00:02:19
Linux command:
Caution: this setting will restore to the default after rebooting the switch.
admin@sonic:~$ sudo ip route add 0.0.0.0/0 via 192.168.1.254
admin@sonic:~$ 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

K>* 0.0.0.0/0 [0/0] via 192.168.1.254, Ethernet48, 00:00:08