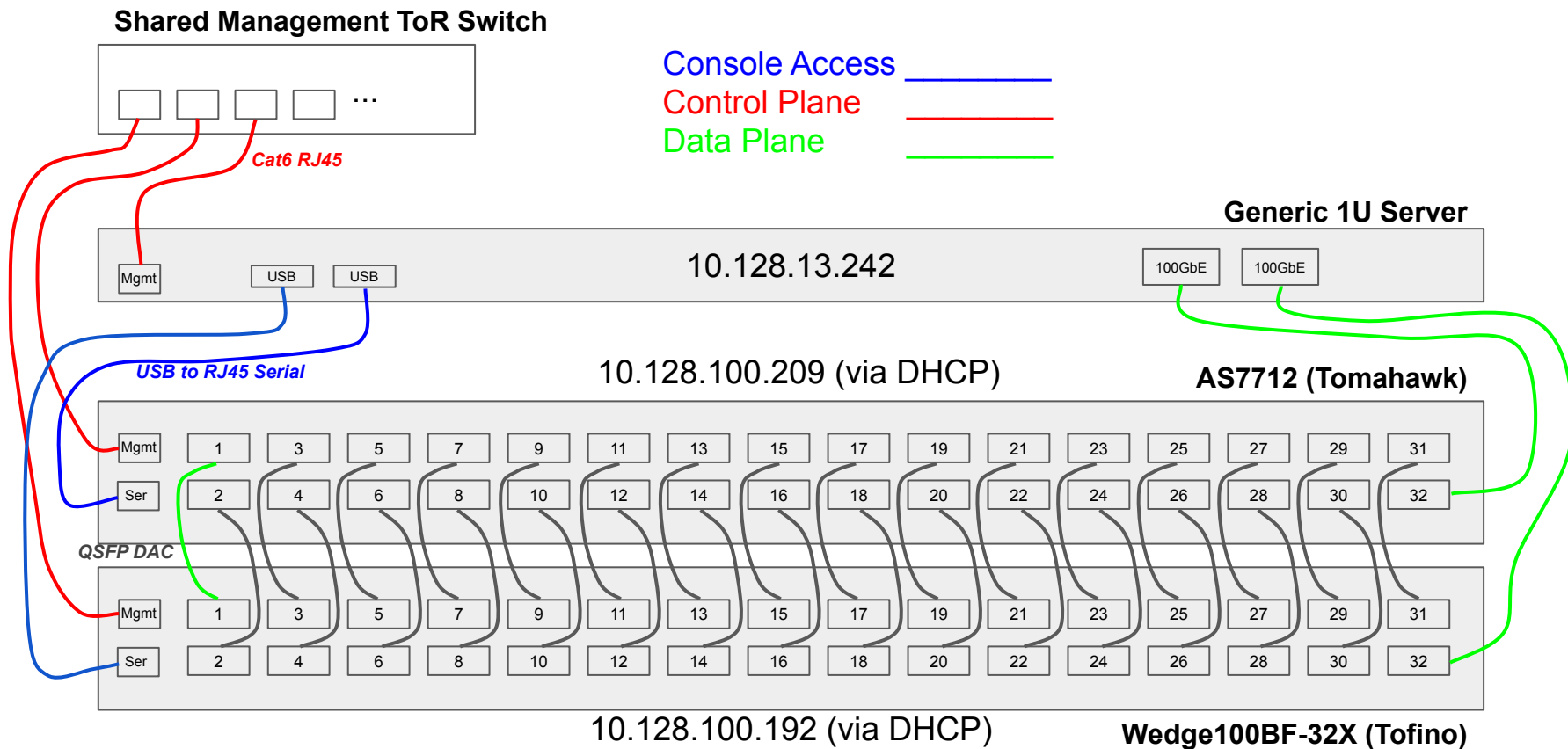# PINS Sanity Testbed (100G back-to-back with traffic generator)

Demo Topology

Wedge Server

192.168.1.2
172.16.1.1
(00:07:43:4b:7f:58)

Wedge100BF Switch

Ethernet0 (#1)
10.0.0.1/31 (00:90:fb:64:cc:9e)

Ethernet124 (#125)
192.168.1.1 (00:90:fb:64:cc:9e)

Bcm Switch

Ethernet0 (#1)
10.0.0.0/31 (8c:ea:1b:17:64:0c)

Ethernet124 (#125)
192.168.2.1 (8c:ea:1b:17:64:0c)

Bcm Server

192.168.2.2
172.16.2.1
(00:07:43:4b:7f:50)

Dest IP: 172.16.2.0/24
   Src mac: 00:90:fb:64:cc:9e
   Egress port: Ethernet0
   Dst mac: 8c:ea:1b:17:64:0c

→

Dest IP: 172.16.2.0/24
   Src mac: 8c:ea:1b:17:64:0c
   Egress port: Ethernet124
   Dst mac: 00:07:43:4b:7f:50

Dest IP: 172.16.1.0/24
   Src mac: 00:90:fb:64:cc:9e
   Egress Port: Ethernet124
   Dst mac: 00:07:43:4b:7f:58

←

Dest IP: 172.16.1.0/24
   Src mac: 8c:ea:1b:17:64:0c
   Egress Port: Ethernet0
   Dst mac: 00:90:fb:64:cc:9e

Ping Demo

Demonstrate Pings between two hosts

Push P4Info

Send Router Interface Entries

Send Neighbor Entries

Send Next Hop Entries

Send Route Entry