Sw1 en conf t host SW1 Int range g0/0-1 Sw trunk encap dot1q sw mode trunk exit

int range g0/3,g1/0-3,g2/0-3,g3/0-3 Shut exit

Spanning-tree vlan 1 root primary

spanning-tree backbonefast --- Sw2 en conf t host Sw2 Int range g0/0-1 Sw trunk encap dot1q sw mode trunk exit

int g0/2 Spanning-tree portfast exit

spanning-tree vlan 1 root sec

spanning-tree backbonefast

int range g0/3,g1/0-3,g2/0-3,g3/0-3 Shut exit

Sw3 en conf t host SW3 int range g0/3,g1/0-3,g2/0-3,g3/0-3 Shut exit

Spanning-tree uplinkfast spanning-tree backbonefast

int g0/2 SW host exit

end Debug spanning-tree events

sh spa summary

====================================== To protect root bridge rootguard should be enable DP trunk ports

Sw1 int range g0/0-1 spanning-tree guard root exit

Sw2 int g0/1 spanning-tree guard root exit

SW3: Bpduguard

int g0/3 spanning-tree bpduguard enable spanning-tree bpdufilter enable exit

errdisable recovery cause bpduguard errdisable recovery interval 30

Bpduguard Bpdufilter Sends bpdu's Does not send bpdu's Blocks the interface Silently drops the Bpdu and puts the port to when Bpdufilter is enable Bpduguard will not work err disabled state

Spanning-tree vlan 1 root Secondary