

Were pings successful: No they weren't the packet dropped off when it tried to reach pc6 because they are not in the same vlan

Where did S3 send: It sent the packet to pc4

Were the pings successful: Yes since the pcs are in the same vlan they are able to ping one another.

To pc7: Since the frame is a broadcast it is sent out to all ports that can receive it. I.e. pcs on the same vlan and switches that lead to other pcs.

What command: delete startup-config

File Stored: In the flash

Command to delete vlan: delete flash:vlan.dat

Broadcast VLAN10: All three switches and all other pcs on the vlan

BroadcastVLAN20:All three switches and all other pcs on the vlan

BroadcastVLAN30:All three switches and all other pcs on the vlan

PCVLAN10 to PCVLAN30: It travels to one or more switches and then gets dropped

Collision domains: All connected ports

Broadcast domains: All connected ports