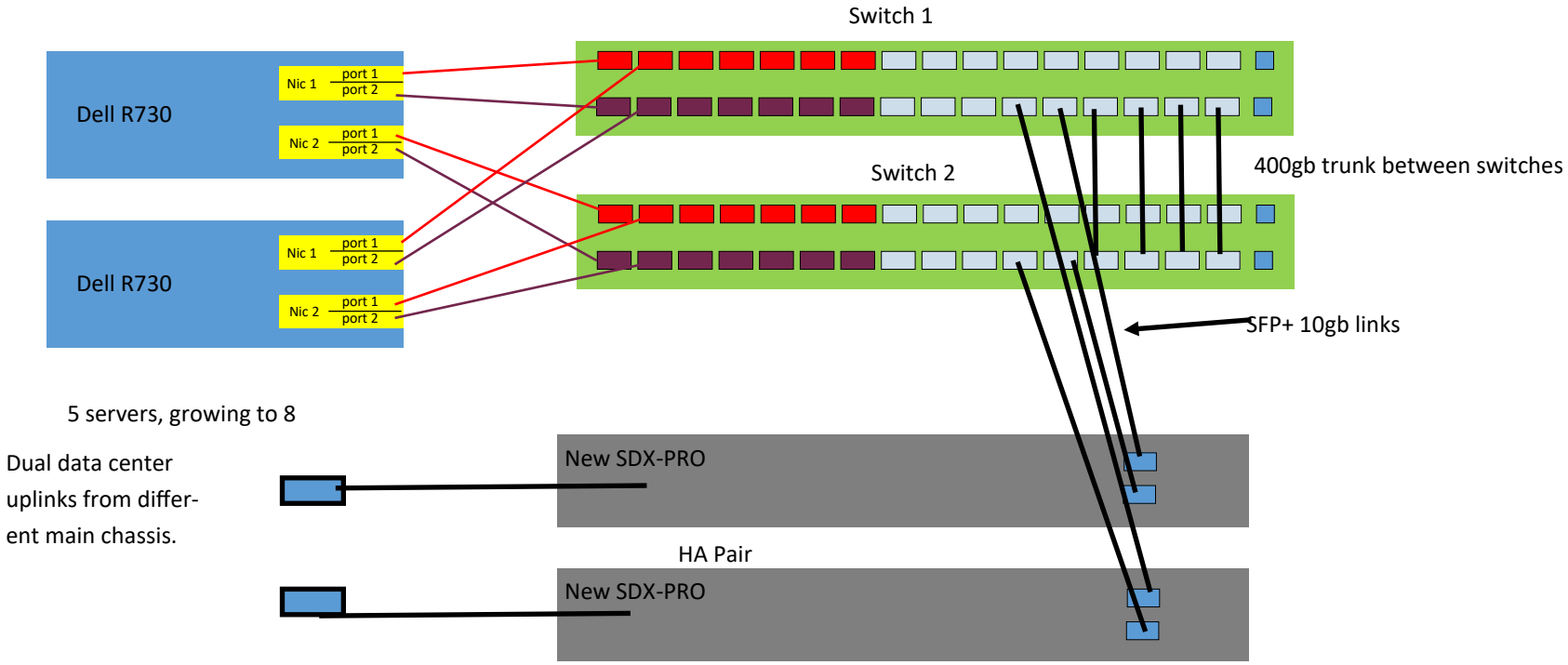
NIC 1/1 and nic 2/1 in balance-XOR bond for CEPH
NIC 1/2 and NIC 2/2 in balance-XOR bond for cluster

32 port 100gb switch. Each port can be 1x100g (QSFP28), 2x50 or 4x25/10/1 using pigtail cables ending in SFP+ transceivers.



Need to connect two SFP+ 10G ports in each SDX-PRO to the two switches using BALANCE-XOR. Currently you only support 802.3ad LACP (link aggregation), which I find odd since you are running linux.

Balance-XOR: Transmit network packets based on a hash of the packet's source and destination. The default algorithm only considers MAC addresses (*layer2*). Newer versions allow selection of additional policies based on IP addresses (*layer2+3*) and TCP/UDP port numbers (*layer3+4*). This selects the same NIC slave for each destination MAC address, IP address, or IP address and port combination, respectively. This mode provides load balancing and fault tolerance.

Here is why: I just spent $35,000 to increase performance by a factor of ten, while maintaining NO SINLE POINT OF FAILURE.

BUT—I cannot connect two ports in LACP mode to TWO DIFFERENT SWITCHES that are also trunked to each other—it creates a hard loop and the world is sucked into a black hole.

With balance-XOR the above works and works GREAT.