**1 - R710 setup**

1. Unbox and look for any obvious physical damage.
2. Check that it contains what I ordered: <Take pictures of whole system and individual components, save them in sub folder of this document>  
     
    Model: R710 2.5" 8 Bay

CPU: X5650 x 2, 2.66GHz, Six core CPU

Memory: 48GB of RAM - PC3 10600R

Storage: 4 x 146GB HDD 10K SAS Dell

Power: 2 x Redundant 870W PSU

Perc 6i Raid Card with battery

iDrac6 ENT

DVD drive

1. Supplier inventory tag =>
2. Take lid off and clean of any dust.
3. Check CPU heatsinks are firm  
   If not, remove, clean off thermal paste, re-apply and refit heatsinks
4. Check all cables are firmly inserted.
5. Check any screws are not loose.
6. Inspect capacitors for swelling.
7. Record Service tag Express service code:  
   => =>
8. NOTE: no OS installed for power usage checks.  
   Record power use of Rpi, 4K monitor, VGA monitor & Network Switch  
   =>
9. Connect up the R710 to keyboard, mouse, VGA … power up both ONE PSU and record power usage of all items including items in step 9 above  
   =>  
     
   Therefore R710 power usage with ONE PSU is =>
10. Check fans are running with a little strip of paper behind one at a time.
11. Power down server, wait 1 minute, and power back up with other PSU and record power usage as per step 10  
    =>  
      
    Therefore R710 power usage with OTHER PSU is =>
12. After a minute, power down server, wait one minute and power it back up with BOTH PSU’s on at the same time and record power usage for everything  
    =>  
      
    Therefore R710 power usage with BOTH PSU’s is =>
13. When booting server, let it run a memtest ONCE, then disable this in BIOS
14. Lan settings, entered during boot up with CTRL + E  
    Do a RESET / CLEAR of settings to get remote iDRAQ password back to the default of “root : calvin”  
    For iDRAC remote access … scroll down to IPv4, select static and configure these values:

IP : 192.168.124. > (200 or 220)

mask : 255.255.255.0

gateway : 192.168.124.1

DNS : 8.8.8.8

1. Raid settings, entered during boot up with CTRL + R  
   Setup “RAID 10” for all 4 discs and initialise them (this takes over 10 minutes).
2. In BIOS configure boot order to be:  
    SATA optical drive  
    Hard drive  
    Embedded NIC 1
3. In BIOS, check Virtualisation Technology is Enabled  
   If it is not, Enable it and re-boot and check that it has remained Enabled.  
   If it has not remained enabled, do NVRAM clear process and repeat until it remains Enabled.
4. In BIOS, look at:  
   CPU temp’s  
   SMART for all disks  
   Network port’s  
   Network Management port

System revision: < >

1. Do NVRAM reset (only if iDRAC remote login of root:calvin does not work)
2. Rear VGA [ ], Rear mouse USB [ ] , Rear keyboard USB [ ]
3. Front VGA [ ], Front mouse USB [ ] , Front keyboard USB [ ]
4. Work through documents:  
    **2 - R710 Firmware updates**  
    **3 - R710 Proxmox Install**  
    **and so on …**