

Example Server for UNIFI Forensic Toxicology solution

Dell PowerEdge R740XD Rackmount Server and Storage Bay MD1400

- Dell PowerEdge R740XD Server (larger chassis for 24 x 2.5" drives)
- 96 GB of DDR4 RAM
- 2 x Xeon Gold 6146 3.2Ghz 12 Core 24M Cache DDR4 processors
- BOSS controller card + with 2 x 240GB M2 SATA (RAID 1) (Windows Server 2012 R2)
- 24 x 1.2 TB SAS 10K 512n (UNIFI Application and Database)
 - Note that all spinning drives are the same
 - 2 RAID Controllers
 - 1 for Drives 01-24
 - 1 for external drives in storage bay MD1400
- MD1400 Storage Enclosure with 12 x 4TB 7.2K NLSAS drives (FRA Backup Volume)

Drive configuration

- O/S drive > 240GB SSD (Raid 1) pair
- Application drive > 1.2TB (Raid 1) pair
- Database drives for ASM Diskgroup > 10 x 1.2TB (Raid 1) pairs
- Two Global Hotspares > 1.2TB
- Oracle Backup (FRA) > 40TB (Raid 6)

Notes:

1. 512 native disks are specified as Oracle ASM does not support 4K or 512e sector in Oracle 12c (512e may work but is still unsupported)
2. Processors have been confirmed as supported by Server 2012 R2
3. Server is preloaded with 2016 with downgrade rights.
4. Spec is appropriate for multiple processing tasks (4 x PLG processing)
5. FRA sized much larger to allow for additional archive storage (cost effective)
6. Advise also the provision of NAS, SAN or Tape solution for long time archival and Disaster protection.