

Email from Giovanna.

Dear all, Please find here the configuration of our storage system, for you to start thinking how you would organise it:

FORMAT quad server (= 4 system units): - processor CM8066002032301 E5-2630v4 (2 processors per system unit) - 128 GB RAM/system unit - 1 SSD hard drive per system unit (960 GB) - LSI 9300-8e SAS Host Bust Adapter - 2x10 Gbps Ethernet (SFP+) - 2x1 Gbps Ethernet (RJ45)

4x Disk array based on Promise J5800S: - equipped with 2x 600W power supplies, - 1x SAS enclosure management module - 24x HITACHI 6TB S-ATA drives (HUS726060ALE610), - SAS SFF-8644 cable.

Each host can control 2 disk enclosures, so we could use 2 servers for storage and 2 for monitoring, or have each server connected to one enclosure, running mixed storage/monitoring loads. For your reassurance, a single host should be able to easily store all our data, not only at nominal average load (3 Gbps), but much beyond that. Tests I made showed that we would be limited by the 20 Gbps network interface before hitting the storage writing speed. Each disk enclosure has 144 TB of raw storage space. We have to think what type of RAIDing to do in blocks of how many disks, finding a good compromise between simplicity of data recovery (disks do break), simplicity of configuration and performance.

-- DavidGeoffreySavage - 2018-02-16

This topic: CENF > NP04OnlineComputerHardware

Topic revision: r1 - 2018-02-16 - DavidGeoffreySavage



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