eRacks Upgrades their Storage Servers with the New HGST Technology-10TB HDD

eRacks announces the upcoming integration of HGST-10TB HDD Helium SMR drives - they won't be in your laptop, but the 10-terabyte hard drive will be in your datacenter servers soon!

FREMONT, Calif. - May 29, 2015 - *PRLog* -- eRacks open source systems is now qualifying their servers with the latest HGST-10TB Helium-filled SMR (Shingled Magnetic Recording) hard drives in a bid to ensure that business owners are able to get sufficient storage servers and software systems that will help them manage their businesses efficiently. Helium drives are quickly becoming the de-facto choice for data center applications where storage density, reliability and power efficiency are paramount this led eRacks to plan on how to upgrade their storage servers.

HGST 10TB HelioSeal uses two new complementary technologies: **HelioSeal technology** (http://www.hgst.com/science-of-storage/emerging-technologies/helium-technology) and host-managed **Shingled Magnetic Recording (SMR) (http://www.hgst.com/science-of-storage/emerging-technologies/shingled-magnetic-recording).** This HGST HelioSeal drives with helium enables more disks in the standard hard drive form factor. Helium, being 1/7 the density of air, allows the use of much thinner disks without the disruptive effects of turbulence. Turbulence kills performance and drives down reliability. More disks means more capacity, and more capacity per drive results in lower total cost of ownership–since the entire data center infrastructure can be leveraged to store more with no additional cost. In addition to the fixed cost benefits, operating costs are reduced because helium drives consume much less power, cutting power and cooling costs, in spite of the higher capacity. This makes them greener, so you really can save the planet… while saving money!

In SMR-(**Shingled Magnetic Recording**), relatively wide data tracks are written that partially overlap the previous ones. These successively written data tracks overlap in a way that reminds me of roof shingles. In addition, old-style disk drives tracks are separated by a small gap to make sure adjacent writes don't corrupt data. In SMR drives, this gap is removed, thus enabling 25 percent to 100 percent more data on the same basic disk platter. Eventually, SMR is expected to enable data densities as high as 3 trillion bits per square inch

eRacks will incorporate the HGST Technology to increase on their storage server capacities thus boosting their storage servers performance for data centers/big data companies enabling data centers store more data with no additional costs. Further more reduce companies operating costs because helium drive consumes less KHS Power. Here is a list of the storage servers that will upgrade on their storage capacities and will be compatible with the HGST technology:

eRacks/NAS72 (https://eracks.com/products/storage-servers-nas/NAS72/)
eRacks/NAS50 (https://eracks.com/products/storage-servers-nas/NAS50/)
eRacks/NAS36 (https://eracks.com/products/storage-servers-nas/NAS36/)
eRacks/NAS24 (https://eracks.com/products/storage-servers-nas/NAS24/)
eRacks/NAS16 (https://eracks.com/products/storage-servers-nas/NAS16/)
eRacks/NAS12 (https://eracks.com/products/storage-servers-nas/NAS12/)
eRacks/NAS8 (https://eracks.com/products/storage-servers-nas/NAS8/)

eRacks/NAS6 (https://eracks.com/products/storage-servers-nas/NAS6/)
eRacks/NAS4 (https://eracks.com/products/storage-servers-nas/NAS4/)
eRacks/NAS3 (https://eracks.com/products/storage-servers-nas/NAS3/)

Currently the 8TB Helium drives are now available on all our servers, our eRacks/NAS72 (https://eracks.com/products/storage-servers-nas/NAS72/#specs) has 576TB of storage! a must have for your business needs.

“ **We’ve passed an important milestone on the road to remaking the future of storage** w**ith less power consumption and yet more storage, this brings watts-per-petabyte efficiency to a whole new level. Go Green now and save Big Bucks on your Cloud and Big Data power bill!”** – Joseph Wolff, Founder and CTO of eRacks Open Source Systems.

Email: info (at) eracks.com or via our contact page at eracks.com/contact (http://eracks.com/contact-us/) if you have any questions.

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