Industry Trends Perspective Update Newsletter

Information Technology and Data infrastructure

Cloud Virtual Physical Software Defined

Volume 16, Issue VI and VII

Hello and welcome to this combined June and July (Summer) 2016 Server StorageIO update newsletter. Summer here in the northern hemisphere is in full swing with plenty of indoor, outdoor, work and fun activities taking place. There are also many things shaping up for the upcoming late summer and fall activities, events, news and other items in the works to be covered in future update newsletters, StorageIOblog posts, articles, tips, books, reports, podcast's, videos, webinars in different venues.

In This Issue

- Commentary in the news
- Tips and Articles
- StorageIOblog posts

- Events and Webinars
- Industry Activity Trends
- Resources and Links

Enjoy this shortened summer edition of the Server StorageIO update newsletter.

Cheers GS

Industry Activity Trends

Recent Industry Activates and Trends

Happy 20th Birthday Microsoft Windows Server (watch for Server 2016 to be formally announced sometime this fall). In the meantime, check out Tech Preview 5 (TP5) here. See what's new in Server 2016 here.

The Linear Tape Open (LTO) Consortium and Storage Networking Industry Association (SNI) announced that Linear Tape File System (LTFS) format specification is now an International Standards Organization (ISO) and International Electrotechnical Commission (IEC) standard.

NVMe trade group announced new specifications for NVMe over fabrics

EMC shareholders vote strongly in favor to support merger with Dell.

Congratulations to all fellow returning as well as new Microsoft MVPs and VMware vExperts.

StorageIOblog Posts

Recent and popular Server StorageIOblog posts include:

- Get in the NVMe SSD game (if you are not already)
  If you are or have talked the Non Volatile Memory (NVM) and NVM Express (NVMe) flash SSD talk, however have not yet done the walk, there are some good opportunities to do so. One example how to start walking the talk is get something like the Intel 750

400GB NVMe PCIe Add in Card (AiC) which you should be able to find on different venues including Amazon for $400 USD or less. Of course the question might then be what to do with a NVMe device when you get it which besides running your applications on it, you can find some benchmark and workload generator tools, scripts and examples here. Read more here.

- **Some server storage I/O benchmark workload scripts**
  This is part one of a two-part series using common server **storage** I/O **benchmark** tools and workload scripts. View part II here which includes the workload scripts and where to view sample results. There are various tools and workloads for **server I/O** *benchmark* testing, validation and exercising different storage devices (or systems and appliances) such as Non-Volatile Memory (NVM) flash Solid State Devices(SSDs) or Hard Disk Drives (HDD) among others. Read more here.

- **12Gb SAS SSD Enabling Server Storage I/O Performance and Effectiveness Webinar**
  Non-Volatile Memory (NVM) Solid State Devices (SSDs) including nand flash, DRAM as well as emerging PCM and 3D XPoint as part of Storage Class Memories (SCMs) are in your future. The questions are where, when, for what, how much as well as what form factor packaging, along with server storage I/O interface are applicable for your different applications and data infrastructures. Read more here.

- **NetApp Announces ONTAP 9 software defined storage management**
  NetApp has announced ONTAP 9 the latest version of their storage software that defines and powers *ONTAP* storage systems and appliances (e.g. those known by some as FAS among others). The major theme of ONTAP 9 is simple anywhere eluding to the software runs on storage system appliances (e.g. "tin wrapped" or hardware platform based), virtual storage (e.g. what has been known as "edge" in the past), as well as cloud versions (cDOT). The other part of simple beyond where the software gets deployed and how the resources along with functionality are consumed ties to management. Read more here.

- **Server StorageIO May 2016 Update Newsletter**

View other recent as well as past StorageIOblog posts here

StorageIO Commentary in the news

Recent Server StorageIO industry trends perspectives commentary in the news.

EnterpriseStorageForum Comments on Top 10 Enterprise SSD Market Trends
CDW Comments on addressing storage dilemma or debacles
EnterpriseStorageForum Tips to Ease Backup Appliance Selection Process
SearchSolidstateStorage solid-state storage and your data storage systems
SearchStorage Comments on NAS system buying decisions
EnterpriseStorageForum Comments on Cloud Storage Pros and Cons
EnterpriseStorageForum Storage Hyperconvergence: When Does It Make Sense?
EnterpriseStorageForum Comments on The Future of NAS Data Storage
CRN Comments on 8 Storage Companies Cisco Should Buy (And 1 It Shouldn't)

View more Server, Storage and I/O hardware as well as software trends comments here

StorageIO Tips and Articles

Recent and past Server StorageIO articles appearing in different venues include:

WServerNews.com: Cloud (Microsoft Azure) storage considerations
InfoStor: Whats The Best Storage Benchmark?
NetworkComputing: Selecting Storage: Buzzword Bingo
EnterpriseStorageForum: NAND, DRAM, SAS/SCSI & SATA/AHCI: Not Dead, Yet!
NetworkComputing: Selecting Storage: It's All About The Applications
IronMountain: The Importance of a Data Lifecycle Management Strategy
IronMountain: Information Lifecycle Management Strategy: Which Data Types Have Value?
EnterpriseStorageForum: Is Future Storage Converging Around Hyper-Converged?
NetworkComputing: Selecting Storage: Start With Requirements
BizTech: 4 Ways to Performance-Test Your New HDD or SSD

Check out these resources techniques, trends as well as tools. View more tips and articles here

StorageIO Webinars and Industry Events

September 20: BrightTalk Webinar Software Defined Data Infrastructures (SDDI) Enabling Software Defined Data Centers - Part of Software-Defined Storage summit - 8AM PT

August 29-31: VMworld Las Vegas

August 25 - TBA

August 16: BrightTalk Webinar Software Defined Data Centers (SDDC) are in your future (if not already) - Part of Enterprise Software and Infrastructure summit 8AM PT

August 10-11 Flash Memory Summit (Panel discussion August 11th) - NVMe over Fabric

June 22: Micron Webinar Don't let old, slow SAS HDDs drag down your data center - Discussion About SAS SSDs

Brouwer Storage (Nijkerk Holland) June 10-15, 2016 - Various in person seminar workshops

June 15: Software Defined Data center with Greg Schulz and Fujitsu International

June 14: Round table with Greg Schulz and John Williams (General manager of Reduxio) and Gert Brouwer. Discussion about new technologies with Reduxio as an example.

June 10: Hyper converged, Converged , and related subjects presented Greg Schulz

See more webinars and other activities on the Server StorageIO Events page here.

Server StorageIO Industry Resources and Links

Check out these useful links and pages:

storageio.com/links - Various industry links (over 1,000 with more to be added soon)
objectstoragecenter.com - Cloud and object storage topics, tips and news items

dataprotectiondiaries.com - Various data protection items and topics
thenvmeplace.com - Focus on NVMe trends and technologies
thessdplace.com - NVM and Solid State Disk topics, tips and techniques
storageio.com/performance.com - Various server, storage and I/O performance and benchmarking

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