



## Industry Trends Perspective Update Newsletter

Information Technology and Data Infrastructure

Cloud Virtual Physical Software Defined

## Volume 15, Issue IX

Hello and welcome to this September 2015 [Server StorageIO update newsletter](#). Summer has wrapped up here in the northern hemisphere which means the fall conference season has started. In addition to large conferences, there are also many smaller events including the sessions I will be doing in Nijkerk Holland week of October 13-16, along with [others \(in-person and on-line\) throughout the fall](#).

Enjoy this edition of the Server StorageIO update newsletter and watch for new tips, articles, StorageIO lab report reviews, blog posts, videos and podcast's along with in the news commentary appearing soon.

Cheers GS

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### StorageOblog Posts

Recent and popular Server StorageOblog posts include:

- [PACE your Server Storage I/O decision-making, it's about application requirements](#)
- [Fall 2015 Server Storage I/O Cloud Virtual Seminars Going Dutch](#)
- [August 2015 Server StorageIO Update Newsletter](#)

View other recent as well as past [blog posts here](#)

### Server Storage I/O Industry Activity Trends (Cloud, Virtual, Physical)



- AWS adds new S3 (Simple Storage Service) class ([Infrequent Access](#))
- EMC [releases](#) ScaleIO software appliance bundle
- VMware [VSAN V6.1](#), [VSAN Witness appliance](#) and [more](#)
- All Flash Array (AFA) SSD startup Pure Storage files for [IPO](#)
- Microsoft Windows Server 2016 Tech Preview 3 (TP3) [features](#)

View other recent [news and industry trends here](#)

### StorageIO Commentary in the news



Recent Server StorageIO commentary and industry trends perspectives about news, activities tips, and announcements.

- [EnterpriseStorageForum](#): Top Ten Ways to Use OpenStack for Storage
- [EnterpriseStorageForum](#): Are We Heading for Storage Armageddon?

View more Server, Storage and I/O hardware as well as software trends comments [here](#)

## Vendors you may not have heard of

Various vendors (and service providers) you may not know or heard about recently.

- [Formation Data Systems](#) - Software Defined Storage Management Solutions
- [Tesora](#) - [OpenStack Trove](#) Database Management tools

Check out more vendors you may know, have heard of, or that are perhaps new on the [Server StorageIO Industry Links page here](#) (over 1,000 entries and growing).


## StorageIO Tips and Articles

Recent Server StorageIO articles appearing in different venues include:

- **NetworkComputing:** [Selecting Storage: It's All About The Applications](#)  
Choosing the right storage for your applications depends on using the PACE model, evaluating Performance, Availability, Capacity and Economics (e.g. PACE). Often when I discuss mainstream applications with people, the perception is that bandwidth only applies to big data and analytics, video, and high-performance compute (HPC) or supercomputing applications such as those used in the seismic, geo, energy, video security surveillance, or entertainment industries. The reality is that those applications can be bandwidth or throughput intensive, but they can also need a large number of small I/Os that need many IOPs to handle metadata related processing. Even bulk storage repositories for archiving, solutions using scale-out NAS, and object storage have a mix of IOPs and bandwidth. [Read more here.](#)
- **EnterpriseStorageForum:** [NAND, DRAM, SAS/SCSI and SATA/AHCI: Not Dead, Yet](#)  
Manufacturers are coming out with new non-volatile memory (NVM) media like [3D XPoint](#). Does that mean that DRAM and other NVM media such as [NAND flash](#) are now dead?  
  
Do new NVM storage access protocols such as [NVM Express \(NVMe\)](#) mean SCSI/SAS and AHCI/SATA are now dead?  
  
My simple answer is no, they all have bright futures. [Read more here.](#)

Check out [these resources and links](#) technology, techniques, trends as well as tools. View more [tips and articles here](#)

## StorageIO Videos and Podcasts

StorageIO podcasts are also available via  and at [StorageIO.tv](#)

## StorageIO Webinars and Industry Events

[Deltaware Emerging Technology Summit](#) November 10, 2015

[Microsoft MVP Summit](#) Nov 2-5, 2015

[Server Storage I/O Dutch Workshop Seminar Series](#)  
[Nijkerk Netherlands](#) October 13-16 2015

October 13 - Symposium: Software Defined Storage Management  
October 14 - Server Storage I/O Fundamental Trends  
October 15 - Symposium – Data Center Infrastructure Management (DCIM)  
October 16 - "Converged Day" Server and Storage Decision making

Learn more and register at the [Brouwer Consultancy website here](#).

September 23 - [Webinar Redmond Magazine & Dell Data Protection](#)  
The New World Order of Data Protection - Focus on Recovery  
Learn more about the 9Rs of data protection and recovery

See more webinars and other activities on the [Server StorageIO Events page here](#).

## Server StorageIO Recommended Reading List

The following are various recommended reading including books, blogs and videos. If you have not done so recently, also check out the Intel Recommended Reading List ([here](#)) where you will also find a couple of my books.



[Seven Databases in Seven Weeks \(A Guide to Modern Databases and the NoSQL Movement\)](#) is a book written Eric Redmond ([@coderoshi](#)) and Jim Wilson ([@hexlib](#)), that takes a look at several non SQL based **database** systems. Coverage includes PostgreSQL, Riak, Apache HBase, MongoDB, Apache CouchDB, Neo4J and Redis with plenty of code and architecture examples. Also covered include relational vs. key value, columnar and document based systems among others. [Read more here](#).

## Server StorageIO Industry Resources and Links

Check out these useful links and pages:

[storageio.com/links](http://storageio.com/links)  
[objectstoragecenter.com](http://objectstoragecenter.com)  
[dataprotectiondiaries.com](http://dataprotectiondiaries.com)  
[storageperformance.us](http://storageperformance.us)  
[thenvmeplace](http://thenvmeplace)  
[thessdplace.com](http://thessdplace.com)  
[storageio.com/raid](http://storageio.com/raid)  
[storageio.com/ssd](http://storageio.com/ssd)

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