


Demartek
Real-world, Hands-on
Research & Analysis

Lab Notes

August 2012

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Demartek News


[Demartek Shares Compression Results](#)

Recently, Demartek was interested in seeing how various compression methods fared against the most popular file types. To do this, we set up a server with 2 octa-core Intel Xeon E5-2690s, 192GB of RAM and 12 SSDs in a software RAID-0 with Windows Server 2008 R2, and a variety of compression applications. These compression applications were scripted to take the sample files and compress them with various settings to show a good comparison of how well they compress with different algorithms. The script recorded the compression method, the before and after sizes, and the time required to compress. To see all the information including our Compression Results Table as well as a downloadable version of the spreadsheet, [click here](#).

[Demartek Evaluation of Cisco Multi-Protocol and Multi-Topology Latency and Connectivity](#)

In today's complex storage networking environments and with the advent of converged, or unified networking, it is possible to run multiple storage protocols in the same network. Current datacenter networks deploy a variety of network topologies, from simple one-switch networks found in small and medium business, to complex aggregate/core and access multi-switch topologies found in large datacenters.

There are often questions regarding latencies for storage systems when deployed in various network topologies. Cisco Systems® commissioned Demartek to evaluate the effects of various networking topologies in a server and storage environment and the results can be found [here](#).



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Updates to Video Library

Here at Demartek we have been keeping busy with not only writing vendor reports but also filming videos that overview the results we find through testing. In the last month we have added two new videos to our [Demartek Youtube](#) page as well as three videos from a recent Tech Target event. We invite you to take a look at these informative videos and to stay posted for several videos to be posted in the near future. Happy viewing!

Upcoming Speaking Engagements

Demartek Presents Analyst Perspective: SSD Caching vs. SSD Tiering - Which One Is Better?

This session will make the comparison between SSD automated storage tiering and SSD caching. The major differences, along with advantages and disadvantages, of each type of technology will be discussed as well as hardware and software solutions. This discussion will be held at the Flash Memory Summit later this month.

- Dates: August 21-23, 2012
- Location: Santa Clara, CA

For a list of events and registration information, visit the [Flash Memory Summit](#) website. To learn more about this specific seminar, visit Demartek's overview of presentation [here](#).

Demartek Presents Two Sessions at the Storage Decisions New York Fall 2012

We hope you can make it out to New York this year for the Fall 2012 Storage Decisions Conference. Dennis Martin will present two speaking sessions this year as well as attending the "Ask the Experts Zone" to help answer any additional questions you may have. Session dates include:

- Sept. 24: [Innovations in Storage Networking: Next-Gen Storage Networks for Next-Gen Data Centers](#)
- Sept. 25: [Where \(and How and Why\) to Implement Solid State Storage](#)
- Sept. 25: [Ask The Experts Zone](#)

Demartek to Present at Storage Networking USA - Fall 2012

I/O virtualization is emerging as a great way to virtualize your underused adapter across your server infrastructure. In this session, we will define I/O virtualization and how it complements server virtualization as well as discussing how I/O virtualization compares to technologies such as Fibre Channel NPIV, DCB and FCoE.

- Date: October 16, 2012
- Location: Santa Clara, CA

Demartek Presents Solid State Storage Half-day Seminars

In a relatively short time, solid-state storage has become a viable alternative for enterprise storage applications. It offers far superior performance over magnetic media while using much less power and creating little heat. Solid-state storage is, however,



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still considerably more expensive than spinning disk, so a cost-effective approach to implementation is required. In this free, multi-city, half-day seminar, Dennis Martin, President of Demartek, will cover the key solid-state technologies and the specs that users need to know, along with the various implementation alternatives.

Remaining Cities and Dates for these 2012 Half-day Seminars are:

- Thu. Sep. 13 - San Diego, CA
- Tue. Oct. 23 - Washington, DC
- Thurs. Oct. 25 - Cleveland, OH
- Thurs. Nov. 1 - St. Louis, MO

[Click Here](#) to get the complete agenda and registration information for these free half-day TechTarget Solid State Storage Seminars. Stay up to date with the latest [Demartek Twitter news](#) for this seminar by following [#SSDseminar](#).

Top Ten Demartek Pages and Reports

We have a feature on our website that lists the top ten most popular pages and reports for the last four weeks, updating every Monday morning. Here's how it looked on August 13th:



1. [Demartek Evaluation of Cisco Multi-Protocol and Multi-Topology Latency and Connectivity](#)
2. [Demartek Presents Robocopy at March 2011 RMWTUG Meeting](#)
3. [Demartek Storage Networking Interface Comparison](#)
4. [Demartek Publishes Exchange Server 2003 vs 2007 vs 2010 I/O Comparison Summary](#)
5. [Demartek Low Latency Evaluation of Fibre Channel, iSCSI and SAS Host Interfaces](#)
6. [Demartek Webinar on Multi-Protocol and Multi-Topology Storage Networks](#)
7. [Demartek Video Library](#)
8. [Demartek iSCSI Deployment Guide](#)
9. [Demartek Shares Compression Results](#)
10. [Demartek SSD Zone](#)

Be sure to check back every Monday to see which reports have made the Top Ten List.

A Word from the President



Based on what we have been testing here in our lab, you can expect a number of very interesting products to be announced over the next few months. We're keeping our lab busy with the latest technologies from a variety of sources. We look forward to discussing these with you!

Dennis Martin, President, Demartek

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