What's New in June - X6 and sd350 servers, HX Series Nutanix Appliances, Lenovo Storage, and more!
Article

This month, Lenovo announced the ThinkServer sd350 dense server and the System x3850 X6 & x3950 X6 mission-critical servers with the new Intel Xeon E7 v4 processors. We also announced new Lenovo Storage offerings, HX Series Nutanix Appliances, and several new options for our servers and switches. Here are the documents we've published.

ThinkServer sd350

The Lenovo ThinkServer sd350 is an ultradense and economical two-socket server in a 0.5U rack form factor. With four sd350 servers installed in the ThinkServer n400 enclosure, you have an ideal high-density 2U four-node (2U4N) platform for enterprise and cloud workloads.

Here are the documents we've published on the sd350:

- Product Guide
  https://lenovopress.com/lp0095-thinkserver-sd350
- Walk-though video
  https://lenovopress.com/lp0079-thinkserver-sd350-video-walkthrough
- 3D Interactive Tour
  https://lenovopress.com/lp0042-thinkserver-sd350-interactive-3d-tour
- New pages in the xREF Reference
  https://lenovopress.com/xref
- Additions to the Operating System Interop Guide
  https://lenovopress.com/osig

System x3850 X6 and x3950 X6

The System x3850 X6 four-socket server and x3950 X6 eight-socket rack servers deliver maximum performance and availability for business-critical applications and databases.

Now with Intel Xeon E7 v4 processors, these servers support for up to 192 processor cores, 12TB of system memory, and over 170TB of flash storage. The X6 servers are not only known for their leadership performance, but also for their ability to scale in order to power

traditional databases as well as new in-memory database and analytics solutions.

Here are the documents on the X6 servers we have updated to include information on the new models, processors, memory and features:

- x3850 X6 product guide
  https://lenovopress.com/tips1250-system-x3850-x6-6241
- x3850 X6 video walkthrough
  https://lenovopress.com/lp0533-system-x3850-x6-video-walk-through
- x3950 X6 product guide
  https://lenovopress.com/tips1251-system-x3950-x6-6241
- x3950 X6 video walkthrough
  https://lenovopress.com/lp0534-system-x3950-x6-video-walk-through
- Lenovo System x3850 X6 and x3950 X6 Planning and Implementation Guide
  https://lenovopress.com/sg248208-x6-planning-and-implementation-guide
- In-memory Computing with SAP HANA on Lenovo X6 Systems
  https://lenovopress.com/sg248086
- SAP Business Suite on Lenovo X6 Systems
  https://lenovopress.com/redp5073-sap-business-suite-lenovo-x6
- New x3850 X6 and x3950 X6 pages in the xREF Reference
  https://lenovopress.com/xref
- Additions to the Operating System Interop Guide
  https://lenovopress.com/osig

In addition, Lenovo announced that the x3850 X6 achieved 17 new performance world records, Here are the benchmark reports that list the #1 results (TPC-E, SPECjbb, STAC-M3) and a very competitive result (SAP SD):

- TPC-E Benchmark Result for System x3850 X6
  http://lenovopress.com/lp0526-x3850-x6-tpce-benchmark-result-2016-06-06
- SPECjbb2015 Benchmark Result for System x3850 X6
  http://lenovopress.com/lp0527-x3850-x6-specjbb2015-benchmark-result-2016-06-06
- STAC-M3 Benchmark Result for System x3850 X6
  http://lenovopress.com/lp0529-x3850-x6-stacm3-benchmark-result-2016-06-06
- SAP SD Benchmark Result for System x3850 X6
  http://lenovopress.com/lp0530-x3850-x6-sapsd-benchmark-result-2016-06-06

New Lenovo Storage V Series

Lenovo Storage V3700 V2 and Lenovo
Storage V5030 are the newest additions to the
Lenovo Storage family of disk systems. By
using Spectrum Virtualize software functions,
interoperability, and management tools, these
systems deliver innovation and new levels of
storage efficiency with ease of use to enable
organizations to overcome their storage challenges.

These storage systems feature full 12 Gbps SAS drive-side connectivity, and they support 1 Gb and 10 Gb
iSCSI, 12 Gb SAS, 16 Gb Fibre Channel (FC), and 10 Gb Fibre Channel over Ethernet (FCoE) host
connectivity.

For more information, refer to the following product guides for the just announced new storage offerings:

- Lenovo Storage V3700 V2
- Lenovo Storage V5030

New HX Series Nutanix Appliances

Lenovo Converged HX Series Nutanix
Appliances are designed to help you simplify
IT infrastructure, reduce costs, and accelerate
time to value. These hyperconverged
appliances from Lenovo combine industry-
leading hyperconvergence software from
Nutanix with Lenovo data center platforms that feature the newest Intel Xeon processor E5-2600 v4
product family.

HX Series

Here are the new product guides on the HX Series appliances we have created:

- Lenovo Converged HX3000 Series Appliances
  http://lenovopress.com/lp0505

- Lenovo Converged HX5000 Series Appliances
  http://lenovopress.com/lp0506

- Lenovo Converged HX7000 Series Appliances
  http://lenovopress.com/lp0507

New server options

This month, we also announced new options for System x and ThinkServer systems. All server product
guides were updated with these options in addition to the new and updated options product guides listed
below.

Networking adapters

In our network adapter portfolio, we added the following adapters:

- Intel X550-T2 10GBase-T Adapter - for System x and ThinkServer
- Intel X710 10 GbE adapter family - new ML2 adapter for System x
- Mellanox ConnectX-4 adapter family - 1x40GbE, 1x25GbE, and 2x100GbE/EDR adapters for
  System x

Storage host bus adapters

In our Fibre Channel HBA portfolio, we added the following new adapters:

- QLogic 16 Gb FC HBAs for System x
- Emulex 16 Gb FC HBAs for System x

We published a new paper on the Emulex offerings:

- The Benefits of Emulex 16 Gb (Gen 6) FC HBAs in Lenovo Storage Solutions

We also published two videos to help you understand the new FC HBAs:

- Emulex 16 Gb FC HBAs Video Walkthrough
- QLogic 16 Gb FC HBAs Video Walkthrough

Solid-state drives for ThinkServer

Lenovo added Samsung PM863 and Intel S3510 SSDs for ThinkServer 1P servers:

- Lenovo PM863 Enterprise Entry SATA SSDs - support for TS150
- Intel S3510 Enterprise Entry SATA SSDs - support for RS140

Other server options

Server product guides were also updated with the following components:

- All the new options listed above
- New USB Hypervisor Keys, preloaded with the Lenovo VMware ESXi 5.5 U3B and 6.0 U2 custom image
- New 12Gbps NL SAS 3.5" HDD options
- New NVIDIA Tesla and Quadro GPUs

New 40Gb transceiver and cables

Lenovo also announced a new 40Gb transceiver and new DAC cables, so we updated these product guides to reflect the new options:

- Lenovo Flex System Fabric SI4093 System Interconnect Module
- Lenovo Flex System Fabric CN4093 10Gb Converged Scalable Switch
- Lenovo Flex System Fabric EN4093R 10Gb Scalable Switch
- Lenovo RackSwitch G8332
- Lenovo RackSwitch G8296
- Lenovo RackSwitch G8272
- Lenovo RackSwitch G8264CS
- Lenovo RackSwitch G8264

New Power Distribution Units

Power distribution units

Lenovo announced new power distribution units (PDUs):

- 0U 12 C13/12 C19 Switched and Monitored 48A 3 Phase PDU
- 0U 36 C13/6 C19 24A 1 Phase PDU
- 0U 36 C13/6 C19 32A 1 Phase PDU
- 0U 21 C13/12 C19 32A 3 Phase PDU
- 0U 21 C13/12 C19 48A 3 Phase PDU
- 0U 20 C13/4 C19 Switched and Monitored 32A 1 Phase PDU
- 0U 20 C13/4 C19 Switched and Monitored 24A 1 Phase PDU
- 0U 18 C13/6 C19 Switched and Monitored 32A 3 Phase PDU

Related product families

Product families related to this document are the following:

- 10 Gb Embedded Connectivity
- 10 Gb Ethernet Connectivity
- 4-Socket Rack Servers
- 40 Gb Ethernet Connectivity
- 8-Socket Rack Servers
- Drives
- Ethernet Adapters
- Host Bus Adapters
- Lenovo SAN Storage
- Mission Critical Servers
- Power Distribution Units
- Supercomputing Servers

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This document, LP0532, was created or updated on June 21, 2016.

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