What's New - July 11, 2017
Article

Today, Lenovo announced the new ThinkSystem servers. In this article, you'll see links to the product guides and walk-through videos we've created to help you understand the new systems. In addition, we've published product guides for the options supported in the new servers, plus reports for the performance benchmark results we've also published.

ThinkSystem Servers

Announcing the new Lenovo ThinkSystem servers, based on the Intel Xeon Processor Scalable Family. The links below take you to the Lenovo Press materials where you can learn about the new systems.

4S-8S rack servers

- Lenovo ThinkSystem SR950 Server (4S-8S mission critical server)
    - Product Guide
    - Walkthrough video
    - Interactive 3D Tour
- Lenovo ThinkSystem SR850 Server (4S server)
    - Product Guide
    - Walkthrough video
    - Interactive 3D Tour

2S rack servers

- Lenovo ThinkSystem SR650 Server (2U 2S general purpose server)
    - Product Guide
    - Walkthrough video
    - Interactive 3D Tour
- Lenovo ThinkSystem SR630 Server (1U 2S general purpose server)
    - Product Guide
    - Walkthrough video
    - Interactive 3D Tour
- Lenovo ThinkSystem SR550 Server (2U 2S entry server)
    - Product Guide
    - Interactive 3D Tour
- Lenovo ThinkSystem SR530 Server (1U 2S entry server)
    - Product Guide
    - Interactive 3D Tour

Density optimized server

- Lenovo ThinkSystem SD530 Server and D2 Enclosure
    - Product Guide
    - Walkthrough video
    - Interactive 3D Tour

Compute nodes for Flex System

- Lenovo ThinkSystem SN550 Server
    - Product Guide
    - Walkthrough video coming soon
    - Interactive 3D Tour
- Lenovo ThinkSystem SN850 Server
    - Product Guide
    - Walkthrough video coming soon
    - Interactive 3D Tour

Tower servers

- Lenovo ThinkSystem ST550 Server
    - Product Guide
    - Walkthrough video
    - Interactive 3D Tour

Walk-through Videos

So far, we've created 6 walk-through videos on the ThinkSystem servers. In each video, David Watts and one of Lenovo's world-wide product managers takes you through the major components of the server.

The videos currently available are:

- ThinkSystem SD530 density optimized server
- ThinkSystem ST550 tower server
- ThinkSystem SR950 mission critical rack server
- ThinkSystem SR850 four-socket server
- ThinkSystem SR650 2U2P server
- ThinkSystem SR630 1U2P server

We have plans for more so stay tuned!

Server Options

We our new servers, we've also announced a lot of new options too. Click the links to read the product guides about each component.

- Ethernet and InfiniBand adapters:
    - Broadcom NetXtreme Gigabit Ethernet Adapters
    - Broadcom NX-E 10GBASE-T Adapters
    - Emulex CN4052S and CN4054S 10Gb VFA5.2 Adapters for Lenovo Flex System
    - Emulex OCe14100B VFA5.2 Adapter Family
    - Intel I350 Gigabit Ethernet Adapters
    - Intel X550 10 Gb Ethernet 10GBASE-T Adapters
    - Intel X710 10 GbE SFP+ Network Adapter Family
    - Intel X722 Integrated 10 GbE Controller for Lenovo ThinkSystem
    - Mellanox ConnectX-3 and EN6132 2-port 40Gb Ethernet Adapters for Flex System
    - Mellanox ConnectX-3 and ConnectX-3 Pro Adapters
    - Mellanox ConnectX-3 and IB6132 2-port FDR InfiniBand Adapters for Flex System
    - Mellanox ConnectX-4 Adapters

- Fibre Channel Host Bus Adapters
    - Emulex 16 Gb Gen 6 Fibre Channel Host Bus Adapters
    - Emulex 16Gb Fibre Channel Adapters for Lenovo Flex System
    - QLogic Enhanced Gen 5 16 Gb Fibre Channel HBAs
    - ThinkSystem Emulex Single and Dual Port 32Gb Fibre Channel Adapters
    - ThinkSystem QLogic QML2692 16 Gb Enhanced Gen 5 Fibre Channel Adapter for Flex System
    - ThinkSystem QLogic Single and Dual Port 32Gb Fibre Channel Adapters

- Omni-Path Architecture (OPA) Adapters
    - Intel Omni-Path Architecture OPA 100 Series Host Fabric Adapters

- SAS Host Bus Adapters
    - Lenovo ThinkSystem 430-8e and 430-16e External SAS HBAs
    - Lenovo ThinkSystem 430-8i and 430-16i Internal SAS HBAs

- RAID Adapters
    - Lenovo ThinkSystem RAID 530 Series Internal RAID Adapters
    - Lenovo ThinkSystem RAID 930 Series Internal RAID Adapters
    - Lenovo ThinkSystem RAID 930-8e External RAID Adapter

- Flash Storage Adapters
    - Lenovo PX04PMC NVMe Mainstream Flash Adapters
    - Lenovo PX04PMC NVMe Performance Flash Adapters

- Solid-State Drives
    - Intel S3520 Enterprise Entry SATA SSD
    - Lenovo HUSMM32 Enterprise Performance 12G SAS SSDs
    - Lenovo PM1633a Enterprise Capacity 12Gb SAS SSDs
    - Lenovo PM1635a Enterprise Mainstream 12Gb SAS SSDs
    - Lenovo PM863a Enterprise Entry SATA SSDs
    - Lenovo PM963 NVMe Enterprise Value PCIe SSDs
    - Lenovo PX04PMB NVMe Mainstream PCIe SSDs
    - Lenovo PX04PMB NVMe Performance PCIe SSDs

- Internal Tape Drives
    - Lenovo LTO Generation 6 (LTO6) Internal SAS Tape Drive
    - Lenovo LTO Generation 7 (LTO7) Internal SAS Tape Drive

Performance Papers

We partnered with the experts from the Lenovo Infrastructure Solutions Group Performance Laboratory to produce two papers on performance topics:

- Lenovo ThinkSystem SD530 Performance Considerations with 12 DIMMs and 16 DIMMs
- Optimizing Memory Performance of Lenovo ThinkSystem Servers

Performance benchmark results

The Lenovo ThinkSystem server portfolio delivered 42 new world record benchmarks as of July 11. Here are the benchmark reports that describe the results:

- SPECmpiM Benchmark Result for ThinkSystem SR650
- SPECvirt Benchmark Result for ThinkSystem SR650
- SPECjbb2015 Benchmark Result for 1-Socket ThinkSystem SR650
- SPECjbb2015 Benchmark Result for 2-Socket ThinkSystem SR650
- SPECjbb2015 Benchmark Result for 4-Socket ThinkSystem SR950
- SPECjbb2015 Benchmark Result for 8-Socket ThinkSystem SR950
- SPECcpu Benchmark Result for ThinkSystem SR950
- STAC-M3 Benchmark Result for ThinkSystem SR950
- STAC-M3 Benchmark Result for ThinkSystem SR650
- TPC-H Benchmark Result for ThinkSystem SR950

ThinkSystem Storage & Networking

The ThinkSystem portfolio also covers storage and networking. Here are the products we announced last month:

- Storage systems:
    - Lenovo ThinkSystem DS2200 Storage Array
    - Lenovo ThinkSystem DS4200 Storage Array
    - Lenovo ThinkSystem DS6200 Storage Array

- Fibre Channel SAN switches and SAN Directors:
    - Lenovo ThinkSystem DB610S 32Gb FC SAN Switch
    - Lenovo ThinkSystem DB620S 32Gb FC SAN Switch
    - Lenovo ThinkSystem DB400D and DB800D 32Gb FC SAN Directors

- Top-of-rack Ethernet switches:
    - Lenovo ThinkSystem NE1032 RackSwitch
    - Lenovo ThinkSystem NE1032T RackSwitch
    - Lenovo ThinkSystem NE1072T RackSwitch
    - Lenovo ThinkSystem NE10032 RackSwitch

Related product families

Product families related to this document are the following:

- 2-Socket Rack Servers
- 2-Socket Tower Servers
- 4-Socket Rack Servers
- 8-Socket Rack Servers
- Backup Units
- Blade Servers
- Drives
- Ethernet Adapters
- Host Bus Adapters
- InfiniBand & Omni-Path Adapters
- SPECcpu Benchmark Results
- SPECjbb Benchmark Results
- SPECvirt Benchmark Results
- STAC-M3 Benchmark Results
- TPC-E Benchmark Results
- TPC-H Benchmark Results

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