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System x Solution for Microsoft Exchange Server 2013

Enhancing enterprise communication systems with performance, reliability and ease of use

Enterprises are more aware than ever that a key component to their business success is collaboration and communication. Businesses depend on the quick exchange of critical information, and this need for fast and reliable communication places service level expectations on the IT infrastructure.

The System x Solution for Microsoft Exchange Server 2013 brings state of the art mail and collaboration capability to the data center, and can coexist within the prevailing infrastructure or be implemented as a standalone unit. The solution supports large mail and collaboration services. x3650 M5 server technology includes fast, agile, resilient systems to maximize uptime and allow seamless storage and compute scalability when workloads increase. IT teams will find this solution simple to install, deploy and manage, and it conforms to standard Microsoft operating and management systems.

Achieve simplified storage scalability

The System x Solution for Microsoft Exchange Server 2013 leverages the database availability groups (DAG) features of Microsoft Exchange and offers simplified, software defined storage scalability based on JBOD (just a bunch of discs) technology. To attain high-availability on a JBOD -based deployment, both databases and logs are on a single disk and multiple database copies are hosted on multiple servers in multiple sites. This minimizes the risk of data loss if the disc containing the database copy experiences a fault. Microsoft recommends having a minimum of four database copies (two per datacenter) to ensure fault tolerance when using JBOD without utilizing RAID or a backup technology. The solution follows Microsoft recommended practices and benefits from the reliability of the components and the design employed.

Highly reliable System x architecture for cost-effective continuity

System x Solution for Microsoft Exchange Server 2013 is a no-compromise collaboration workhorse delivering reliability, scalability and performance. The solution is part of a move to a hyper-converged hardware and software stack which run the Microsoft Windows Server 2012 R2 operating system and Microsoft Exchange Server 2013.

The System x Solution for Microsoft Exchange Server 2013 is a reference architecture designed to maximize the use of large storage capacity offered by the x3650 M5 design. The x3650 M5 server technology includes fast, agile and resilient systems with direct attached storage that delivers results quickly, to allow seamless scalability as workloads increase and to maximize application uptime. Each server platform now provides a

cost-effective storage system which can be used within the constructs of a scalable infrastructure. The use of a reference architecture enables:

- Comprehensive implementation that can be further customized for users.
- Quick time-to-value.
- Reduced risk with pre-tested components.
- Use of recommended-practices in design and architecture of the solution for implementation.
- Assurance that the complete solution meets design expectations.

The System x3650 M5 server

The tested configuration also allows the ability to make modifi-cations to fit and coexist within established datacenters. This helps to provide reduced storage costs and lower TCO through simplified management, rack space, and power savings, improved reliability and availability through server consolidation, and increased productivity.

This solution is a better mailbox storage management solution which can save hard drive space and reduce administrator effort—as well as provide the quick access to data which organizations need to keep business humming. The Exchange Server 2013 64-bit systems enable better memory utilization and reduced disk I/O requirements.

With state-of-the-art processors and greater memory expansion capabilities, System x provides an ideal complement to these new Microsoft Exchange 2013 features. This virtualization helps reduce data center footprints and initial deployment investments, resulting in consolidated physical servers and potential savings.

The System x3650 M5 server

Why System x

System x is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. System x also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

For more information

For more information on the System x Solution for Microsoft Exchange, contact your Lenovo representative or visit:
ibm.com/systems/x/os/windows/collaborate.html

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