



Lenovo | Fusion DM

Server Sizing and Scalability

This document applies to Fusion DM software.

This document is aimed at helping you size your server environment for hosting Fusion DM within your datacenter. The data below are provided as examples and the figures may vary depending on your particular circumstances and the settings you deploy for functions such as heartbeat interval and inventory synchronization. Your experience using the product will enable you to further refine the examples provided.

<p style="text-align: center;">Up To 1000 Single Server</p>	<p>Up to 1000 Devices - All Management Suite Services Hosted on One Server CPU: Intel Xeon Dual Core or Intel i7 Quad Core 64-bit processor RAM: 6 GB min Network Adapter: Gigabit Network adapter HDD Sizing: 250 GB of free disk space on 7.2K RPM or faster drives or arrays Heartbeat: 150 seconds Database: Microsoft SQL Express, Microsoft SQL</p>
<p style="text-align: center;">Up To 2000 Single server</p>	<p>CPU: Intel Xeon Quad Core 64-bit processor RAM: 8 GB min Network Adapter: Gigabit Network adapter HDD Sizing: 250 GB of free disk space on 7.2K RPM or faster drives or arrays Heartbeat: 300 seconds Database: Microsoft SQL Express, Microsoft SQL</p>
<p style="text-align: center;">Up To 6000 Distributed Server</p>	<p>Server 1 - The IIS Server CPU: Intel Xeon Quad Core 64-bit processors RAM: 16GB Min Network Adapter: Gigabit Network adapter HDD Sizing: 250 GB of free disk space on 7.2K RPM or faster drives or arrays Heartbeat: 900 seconds</p> <p>Server 2 - The Database Server CPU: Dual Intel Xeon Quad Core 64-bit processor RAM: 32 GB Min Network Adapter: Gigabit Network adapter HDD Sizing: 500 GB of free disk space on 7.2K RPM or faster drives or arrays Database: Microsoft SQL</p>

<p style="text-align: center;">Up To 10000 Distributed Server</p>	<p>Server 1 - The IIS Server CPU: Intel Xeon Quad Core 64-bit processor RAM: 32GB Min Network Adapter: Dual Bonded Gigabit Network adapters 250 GB of free disk space on 7.2K RPM or faster drives or arrays Heartbeat: 1600 seconds</p> <p>Server 2 - The Database Server CPU: Dual Intel Xeon Hexa Core 64-bit processor RAM: 64 GB Min Network Adapter: Dual Bonded Gigabit Network adapter HDD Sizing: 1TB of free disk space on 10K RPM or faster drives or arrays Database: Microsoft SQL</p>
<p style="text-align: center;">Up To 20000 Distributed Server</p>	<p>Server 1 - The IIS Server CPU: Intel Xeon Quad Core 64-bit processor RAM: 32GB Min Network Adapter: Dual Bonded Gigabit Network adapter HDD Sizing: 250 GB of free disk space on 7.2K RPM or faster drives or arrays Heartbeat: 3000 seconds</p> <p>Server 2 - The Database Server CPU: Dual Intel Xeon Hexa Core 64-bit processors RAM: 64 GB of RAM Network Adapter: Dual Bonded Gigabit Network adapter HDD Sizing: 2TB of free disk space on 10K RPM or faster drives or arrays Database: Microsoft SQL</p>
<p style="text-align: center;">20000 +</p>	<p>For Fusion DM installations of this size and larger we recommend obtaining further tuning assistance from VXL Professional Services or one of our Valued Expert Solutions Providers.</p>

The heartbeat value is provided in seconds for the higher number of devices of the range. The ratio [Heartbeat delay in Seconds] / [number of devices] shall not exceed 0.15.

Microsoft SQL Express 2012 has a 10 gigabyte database size limitation. If this limitation is reached, the server will not function properly and the database will no longer be able to write more data. It is possible that each agent could use as much as 1 megabyte or more during its lifecycle, so take great care to monitor the disk usage and upgrade to a full version of SQL prior to reaching the 10 gigabyte limit.

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