



Light & Motion xTuple Server Upgrade & Backup Server

xTuple Server Upgrade

Light and Motion has an HA pair of Postgresql servers serving their corporate ERP needs, and they wish to expand the use of it to include a back end REST service for a B2B ecommerce web site that also utilizes the ERP data housed in Postgresql database. This will require the addition of some software to implement the REST service and interface with the database. As the servers were originally designed for the single use case of providing database service for the xTuple ERP application, they need to be upgraded to provide sufficient memory and disk resources for the additional tasks. The REST services, which are similar to a web server, will provide data for the B2B ecommerce web site, and will incur additional load on the database, as well as its own resource usage.

The memory is currently configured at 16GB of ECC DDR3 RAM, and is fully utilized in support of postgresql. It will be upgraded to 32 GB of RAM, allowing a little more memory for postgresql operations, and the remainder for the REST software and services.

The disk subsystem, which is also referred to as storage, has proven to have more capacity than the requirements of the Light and Motion ERP data needs, and that capacity came at a trade off with respect to write performance. The storage will be upgraded to substantially faster disks of lower capacity, providing a 10x write performance increase, with the trade off of a storage capacity approximately 1/3 of the original. The new lower capacity will still be 10-15 times greater than current use of the ERP database after 2 years of operation. The storage capacity was over provisioned originally because it was impossible to get a read on the amount of storage that would be required by the application, but after two years we now have a pretty good idea. Additionally, two disk slots will be available for a very cost effective increase in capacity if that proves necessary in the future.

Backup Server

Light and Motion has been operating for quite some time without sufficient backup capabilities. The backup server in the quote will provide the ability to perform on-site backup of the xTuple ERP database, as well as all other corporate data, for a good start to a coherent backup strategy. In addition, it will provide backup capability for Apple desktops and laptops, and Windows computers including the Windows SBS server which currently handles corporate email and name services. The backup server will provide the resources for these machines to be backed up, while IT will need to configure the clients and servers to perform backups to the backup server. Lopoco will install a backup strategy on the xTuple servers at the time of their upgrade.

This server will function as a generic network file server for Windows, Mac and Linux clients in order to facilitate their backup applications.

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Item	Description	Qty	Price	Total
1	Upgrade of xTuple LP-4240-6H Servers	2	\$0.00	\$0.00
	Power usage: no change			
1.a	Memory upgrade: 32GB ECC memory	2	\$540.00	\$1,080.00
1.b	Disk upgrade: 3 x 500GB SSD	2	\$972.00	\$1,944.00
1.c	Hardware installation at customer site	1	\$250.00	\$250.00
1.d	Software installation & configuration	1	\$500.00	\$500.00
2	Backup Server LP-8240-8H 16GB	1	\$1,856.00	\$1,856.00
	Power usage Idle: 22 watts/TDP: 40 watts			
	Two expansion slots for addition of 4TB additional backup storage in the future.			
2.b	64GB of OS storage (2 x 64GB SSD)	1	\$198.00	\$198.00
2.c	6TB of Raid-5 backup storage (4 x 2TB HDD)	4	\$239.00	\$956.00
2.d	Hardware installation at customer site			
2.e	2-year additional warranty	1	\$280.00	\$280.00
2.f	Software installation & configuration	1	\$750.00	\$750.00

Option 1: Fast Web Response

Subtotal	\$7,814.00
Tax	\$512.89
Total	\$8,326.89

Item	Description	Qty	Price	Total
1	Upgrade of xTuple Postgresql LP-4240-6H Servers	2	\$0.00	\$0.00
	Power usage: no change			
1.a	Memory upgrade: 32GB ECC memory per server	2	\$540.00	\$1,080.00
1.b	Disk upgrade: 2TB Raid-5 Storage (3 x 1TB SSHD)	2	\$540.00	\$1,080.00
1.c	Hardware installation at customer site	1	\$250.00	\$250.00
1.d	Software installation & configuration	1	\$500.00	\$500.00
2	Backup and TimeMachine Server LP-8240-8H 16GB	1	\$1,856.00	\$1,856.00
	Power usage Idle: 22 watts/TDP: 40 watts			
	Two expansion slots for addition of 4TB additional backup storage in the future.			
2.b	64GB of OS storage (2 x 64GB SSD)	1	\$198.00	\$198.00
2.c	6TB of Raid-5 backup storage (4 x 2TB HDD)	4	\$239.00	\$956.00
2.d	Hardware installation at customer site			
2.e	2-year additional warranty	1	\$280.00	\$280.00
2.f	Software installation & configuration	1	\$750.00	\$750.00

Option 2: Medium Web Response

Subtotal	\$6,950.00
Tax	\$439.45
Total	\$7,389.45

Offsite DR Backup Services

Lopoco at this time would like to propose it's own cloud offsite backup service. This will be utilized for offsite DR backup of xTuple database and other select services.

Managed Services and Support Hierarchy

Lopoco is proposing a small collection of managed services to go along with Light & Motion's IT needs. These will include various kinds of support as well as maintenance and monitoring.

Offsite DR Backup	\$160/mo
Disaster recovery backup of xTuple database	
5 days/week; 4 weeks/mo; 12 months/yr; 2 years	

Disaster recovery backup of backup server	
5 days/week; 4 weeks/mo; 12 months/yr; 2 years	

These backup and support services will be provided in conjunction with support and services provided by RayneTech. In order for you to have an effective support experience, it is necessary to outline the support heirarchy so that L & M employees know how to obtain support in an orderly and effective manner.

Remote Monitoring Health and Usage	\$132/mo
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Remote monitoring and alerting of system and service availability	
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Email and SMS alerts for system or service outage	
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Usage statistics gathering and display	
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- Gather and store usage metrics, which can be viewed in graphical form
- General understanding of system resource utilization (disk, memory, CPU)
- Performance problem analysis via historial resource consumption data

Item #	Description	Qty	Price/mo	Yearly
1	DR Offsite Backup Service Offsite disaster recovery backup service for xTuple database and other select data sources	12	\$160.00	\$1,920.00
	One time setup fee	1	\$250.00	\$250.00
2	Remote Monitoring and Alerting Service outage and availability monitoring with outage alerts via email and SMS messaging	12	\$132.00	\$1,584.00
	Setup fee	1	\$250.00	\$250.00

First year	\$4,004.00
Subsequent	\$292/mo