



Drive high performance with HPE ProLiant ML110 Gen10

LTP elevates user experience

Industry

IT

Objective

Enable a broader scope of services and increase IT efficiency

Approach

Deploy HPE ProLiant ML110 Gen10 to improve use of enterprise resource planning (ERP) system

IT matters

- Optimize disk speed
- Help mitigate side-channel exploits
- Deploy monitoring tools
- Improve use of ERP system
- Support the move to SharePoint 2016

Business matters

- Upgrade legacy equipment and applications
- Enhance content production and collaboration
- Deliver reliable performance
- Enable more efficient server management
- Maximize cost savings to focus on core mission



Liturgy Training Publications (LTP), a non-profit agency established in 1964, produces both written and video materials in English and Spanish for those who study the Liturgy. LTP started offering in-person and virtual training. To support all of these programs, LTP needs a technology infrastructure that is affordable, secure, and reliable. Efficiency is key, since every dollar counts for a non-profit.

In fact, LTP recently found that using legacy hardware to run ERP systems and applications is anything but efficient. In addition to performance slowdowns, aging servers are costly to manage and maintain—and they have limited flexibility for future expansion. According to Jerard Reibel, LTP's information systems and information technology manager, the non-profit needed the performance and drive capacity of a newer generation server. With a staff of 45 employees—and just one dedicated IT professional—the servers had to make a big impact, fast.

Leaving legacy servers behind

For nearly 55 years, LTP has focused on the mission of fostering love and care for the Liturgy. Prior to Reibel joining the organization, LTP relied on an outside vendor to handle its server infrastructure—keeping its internal team streamlined to increase efficiency. But as the dedicated, in-house IT professional, Reibel quickly realized that the publisher needed to move away from legacy equipment if it wanted to optimize its resources. The organization relies upon 12 servers overall, using a mix of physical and virtual resources to run 35 server instances. In addition to its ERP system, the organization depends upon the servers for file sharing, Exchange email, Skype for Business, and SharePoint. Plus, users work with a database system for book inventory management and sales. They're also using smart arrays with a combination of SSDs and traditional mechanical hard drives. Reibel wanted a high-performance solution that would enable fast access to all these critical services and the assurance that the server wouldn't crash at critical moments.



“In my experience with HPE, and in general, their servers work out of the box. They’ve been very reliable. So far we’ve seen that from these ML110s. We haven’t had any issues and the performance has been great.”

– Jerard Reibel, information systems and information technology manager, LTP

After a short review process, Reibel settled for HPE ProLiant ML110 Gen10. “Honestly, I preferred HPE servers from the years that I’ve used them,” he says.

Leveraging better performance for faster business results

When Reibel made the move to HPE ProLiant ML110 Gen10, he dedicated these server resources to an upgrade to SharePoint 2016 as well as other ERP applications. With the performance and the drive capacity of the **HPE ProLiant ML110 Gen10**, LTP has hit the ground running on its current upgrade strategy, while building a foundation for future improvements.

“The built-in provisioning makes it really easy,” says Reibel. “There are several menus to click through and basically you just need your media for whatever server installation you’re doing. It’s simple.”

LTP deployed two Hyper-V servers hosting eight Windows® servers and four Linux® servers (including a database server). The servers are networked on HPE gigabit switches and Aruba wireless APs. And the benefits were clear from the very start.

First off, the HPE ProLiant ML110 Gen10 delivers the performance that LTP needs—at an affordable price. Ideal for small to mid-sized business, the HPE ProLiant ML110 Gen10 server has incredible processing power, providing up to a 21% performance boost with the Intel® Xeon® Silver processors over the previous generation.¹ Pre-configured

server profiles can match any workload and boost performance by 9% over default server settings.²

Additionally, HPE SmartMemory—verified, authenticated, optimized, and certified for **HPE ProLiant**—delivers up to 66% greater memory bandwidth, which increases application performance for memory-intensive applications.³ Meanwhile, HPE SmartDrives and SSDs offer the lowest price per gigabyte compared to other SATA HDDs.⁴

“For us, it’s really more about the memory, and (the HPE ProLiant ML110 Gen10) had all the options that would allow us to expand for the upcoming projects we have,” says Reibel.

Improving on e-commerce

With the addition of the HPE ProLiant ML110 Gen10, LTP gained the solid foundation for upgrading from SharePoint 2007 to the new SharePoint 2016. Besides using SharePoint for team collaboration, LTP relies on the software for sharing and updating content to its e-commerce site.

Any changes made in SharePoint can be dynamically applied to the e-commerce site, which means the in-house marketing staff doesn’t need to be trained in HTML. This saves time and resources, while improving processes.

¹ Intel® measurements: Up to 71% performance increase in Intel Xeon Platinum vs. previous generation E5 v4 average performance based on key industry-standard benchmark calculations comparing 2-socket Intel Xeon Platinum 8180 to E5-2699 v4 family processors. Any difference in system hardware or software design or configuration may affect actual performance. May 2017.

² HPE internal testing from performance engineering.

³ Percentage compare Gen10 vs. Gen9: Gen10 = 12 Channels x 2666 data rate x 8 bytes = 256 GB/sec. Gen9 = 8 channels x 2400 x 8 bytes = 154 GB/sec. 256/154 = 1.66 or Gen10 is 66% greater bandwidth, July 2017.

⁴ Comparison between the HPE 480GB SATA RI SFF SC DS SSD (ILP/GB=\$1.10) vs. HPE 500GB 6G SATA 7.2k 2.5in SC MDL HDD (ILP/GB=\$.60), May 2017.



Customer at a glance

Application: High-performance server with capacity and reliability to handle everyday needs

Hardware

- HPE ProLiant ML110 Gen10 server

Running powerful programs—silently

When it comes to security and setup, LTP found the right match for its one-person IT team. The HPE ProLiant ML110 Gen10 comes with built-in security that's anchored directly into the silicon, enabling LTP to be protected across the server lifecycle without any extra work. Getting started on the HPE ProLiant ML110 Gen10 was also quick and efficient.

"It's a really simple, quick process to get up and running," says Reibel, adding, "You basically boot up and hit one key, you select a few options and tell it where your media is—and the server takes over and installs Windows and all the drivers for you."

One unexpected benefit has been how silent the HPE ProLiant servers are, even when they're being used to the maximum. At an organization where space is precious, a loud server room can prove to be a major distraction.

"Quiet is good, as is energy efficiency," reports Reibel. "Even at their max volume, when the servers start up for a few seconds, they're not as loud as before... I was actually really surprised by how quiet they are."

Taking the organization to the next level

In only a short time after deployment, Reibel has already seen a noticeable performance increase from users, while saving time spent managing the servers and other related IT needs.

"Definitely, the performance is there, and the upgradability and the features, especially if you're looking for something that's a little bit more on a tower scale rather than a large rack server," says Reibel.

They'll retire about four old servers this fiscal year, with most of the VMs migrating to the new servers. Reibel's team is also consolidating some of the VMs to have a more efficient environment, since the HPE ProLiant servers are definitely easy to manage, monitor, and provision. With the help of the built-in HPE iLO software, Reibel is researching ways to automate these processes and take the organization to the next level.

Driving performance for a higher cause

Thanks to its high performance, reliability, and expandability, the HPE ProLiant ML110 Gen10 has given LTP the room to grow its services for the faithful and improved IT efficiency. Rather than being held back by legacy hardware, the organization can make the most of its resources and prepare for a brighter future. "The performance has been even better than I anticipated," says Reibel.

About HPE

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