

November 2008

ZL UNIFIED ARCHIVE

The Importance of Total Server Virtualization

ZL TECHNOLOGIES | White Paper



ZL TECHNOLOGIES INC.

Server Virtualization

The ability to operate software in a completely virtualized environment has come to be a necessary capability in the IT world. Today's more powerful servers can only reach their full capacity when multiple applications are run as separate processes in a virtual setting, allowing for greater efficiency and fuller resource utilization. The ZL Unified Archive (UA) is capable of operating 100% virtually across numerous platforms and hardware configurations.

Who Needs Virtualization?

Virtualization offers clear benefits to enterprises in terms of total cost of ownership (TCO) savings, resource utilization, and manageability. Running virtually is beneficial to a broad spectrum of businesses across many industries. Every organization, ranging from massive enterprises that require flexible server availability to manage mail flow to small software development companies establishing noncritical test environments, should take advantage of the benefits offered by total virtualization.

Why Virtualize?

The ability to run an application in a completely virtual environment provides numerous benefits to an organization:

- **Improved Server Utilization**

Present-day multi-processor servers are adept at running multiple applications in unison. However, with only a single image running, resource utilization levels remain at a very low 10-15%. With separate virtual installs running on one server, utilization levels can be increased to 60-80%. Additionally, separate images serve as buffers between applications, so there is no need to worry about one application affecting another.

The entire ZL UA platform, including every ZL module, can be virtualized, allowing for maximum server utilization and reliability. Many customers find it exceedingly beneficial to virtualize the ZL environment in order to take full advantage of the TCO benefits and efficiencies offered by ZL's auto-promoting GRID.

"One of the things we were originally looking for was [support for full] virtualization, and we received that blessing from ZL [while no one else was able to offer it]," says Anthony Swanson of Columbia Credit Union. "A lot

of companies are trying to downsize and virtualize to reduce their footprint [while at the same time improving performance and resource utilization, as we have with ZL].”

- **Reduction in Infrastructure and Management Costs**

Virtualization has become IT's preferred cost saving initiative. The benefits of a reduction in the number of physical servers are numerous. In addition to forgone expenditures for additional servers, there are also considerable savings due to the reduction in electrical, cooling, and facilities costs. Additionally, physical space in the data center can also be diverted to other projects.

With fewer servers, much less time is needed for maintenance, and time-consuming hardware failures are less frequent. This enables IT managers to allocate their time more efficiently and reduces personnel requirements, which in turn drastically reduces costs due to the large amount of training hours needed for these complex environments.

Due in large part to the auto-promoting GRID architecture, ZL excels at server consolidation, particularly in environments in which customers have chosen to deploy virtual machines. One of ZL's largest customers saves more than \$300,000 per month by using ZL instead of their previous solution.

- **Improved Server Manageability**

Virtualization makes complex computing environments much easier to manage since a single virtual template can be created and then used across any number of machines. A virtual machine is also incredibly portable because all of the software can be saved as a package on any standard storage medium and installed on another server, turning the server array into a fluid resource pool that can be easily adapted to changing needs.

All components of ZL UA can be virtualized, With ZL UA, there is only one template for the software package to install on any number of virtual machines. This results in the greatest level of manageability and scalability. It is extremely easy to increase the number of servers in ZL's GRID architecture using this method. ZL can virtualize new servers or processors and treat them as extensions to the existing hardware, so there are no limitations on the number of sites and amount of data that ZL can process.

The ability to full replicate a single ZL image onto a separate machine means that the only physical component of the ZL deployment is the Database server. For example, one of ZL's largest customers currently has a virtualized environment of 120 virtual machine servers to support 160,000 mailboxes in a mixed environment of Microsoft Exchange and Lotus Notes. Without total virtualization capability, the number of physical servers would be much higher.

Future Business Mobility

Over the long term, the advantages from virtualization are readily apparent in ROI. The ability to modify server configurations dynamically ensures business agility for the future. Company resources can easily and instantly be reallocated depending on company needs, which may be constantly changing due to market trends.

About ZL Unified Archive Suite

The flagship product of ZL Technologies, ZL Unified Archive, offers an integrated platform to manage email and files for regulatory compliance, legal discovery, storage management, and content surveillance. Other integrated ZL applications include encrypted email, attachment management, and secure file transfer and collaboration. ZL's GRID-based Email Management Platform, originally developed for deployments of half a million mailboxes, lies at the heart of ZL UA, providing scalability and flexibility unmatched in the industry. ZL incorporates next-generation technology and advanced capabilities such as the GRID, sub-second search, 100% email capture, litigation support, email surveillance & enforcement, and many others.

About ZL Technologies

Established in 1999, ZL Technologies, Inc. (ZL) provides cutting-edge enterprise software solutions for email archiving, regulatory compliance, litigation support, corporate governance, content management, file archiving, and secure email. ZL's flagship product, the Unified Archive, offers comprehensive email and file archiving and management for companies using Lotus Notes/Domino, Microsoft Exchange, Bloomberg, and others. The suite provides a highly flexible framework that is fully scalable, enabling organizations of all sizes to meet legal discovery, compliance, and storage management requirements. With a proven track record and an impressive list of clients, including Walgreens, Bank of New York Mellon,

Pacific Life, and Morgan Keegan, among other top global institutions, ZL has emerged as the premier provider of email archiving and compliance solutions. For more information, please visit www.ZLTI.com

