

CSL International

Computing Solutions Leaders International

CSL-WAVE High Level Overview

Market Place:

The two hottest trends in the enterprise IT industry today, **Virtualization** and **Server Consolidation**, actually contribute to the reduction of the ever growing IT spending, by reducing server sprawling and down times, while increasing HW Utilization. **This is a \$3 Billion market NOT COUNTING the non-Mainframe ISPs and TELCO organizations!!**

**From
the
press:**

Virtualization & Consolidation Drive Server Sales in Q1

by Timothy Prickett Morgan
May 29, 2007 | ITJungle

"Linux on the mainframe is gaining steam. About 25% of the MIPS IBM ships on the mainframe run Linux" says Tony Iams, VP and senior analyst at Ideas International

By Mark Fontecchio, News Writer
25 Jun 2007 | SearchDataCenter.com

WAVE is a "z/Linux Simplification and Provisioning" best of breed software solution, geared to manage the IBM Mainframe virtualization environment in which tens to thousands of Linux virtual servers can share a single HW box.

Our Goal is to become a key player in this market within 2 years with at least 10%-20% market share.

Our Vision:

Using WAVE's innovative GUI based solution to harness the power of the IBM System z server with z/VM, as the platform of choice for consolidation and virtualization, thus, *reducing IT spending and overall improving profitability*. **At sites where Mainframe hardware already exists we can simplify server consolidation using z/VM and z/Linux.** At other sites, which currently do not employ Mainframe solutions - **WAVE presents the Mainframe as a desirable alternative to regular servers hardware**, making Linux administrators feel at home even when the server they manage is a virtual machine running on a Mainframe, **thus, paving the road to huge TCO savings with the consolidation via virtualization state of the art hardware/software solution.** (Ask for our TCO/ROI analysis!!)

The Pain and the Toll

- Experienced and professional z/VM system administrators are hard to come by
- Learning curves to become a productive z/VM administrator are very long (2-3 years at least).
- Deployment of new servers is usually longer than planned, which affects the projects' time-to-market
- Overall efforts and risks for a new multi-server project are high, making it a tough sale to the decision makers

The Solution – CSL-WAVE

- Simplification – State of the art intuitive GUI for effortless control of servers' VM, Cloning, VLANs, Disks and more
- Abstraction – The IBM Mainframe HW and the z/VM OS environment are hidden completely from the WAVE user
- Automation – Full automation of major virtualization and consolidation tasks using drag & drop techniques
 - Powerful automation of day-to-day operations so the administrator can handle much heavier workload
- Expert system capabilities with deep knowledge and understanding of z/VM virtualization and Linux technology
- Minimal to zero Mainframe skills are needed, hence, Linux administrators productivity is not compromised
- Less planned and unplanned downtime due to bullet proof automation with enhanced safeguards protection
- Increase resource utilization – Less to no servers sprawling is reached with ease.
- **When using WAVE - over all efforts and risks are reduced, as you "DO MORE FOR LESS"!!!**

CSL-WAVE: z/Linux on z/VM managed the easy way

Terminology:

Virtualization: A software technology allowing an Operating System (OS) to run unmodified on an isolated virtual environment, called a Virtual Machine (VM). The required physical characteristics and behaviors of the OS are reproduced via software emulation (virtualization) of hardware devices rather than physical hardware components.

Server Consolidation: The process in which any number (from a few to hundreds or thousands) of server software environments are migrated to run on Virtual Machines (VM), hosted on a single physical server.

z/VM: The IBM Virtual Machine OS (with over 40 years of maturity) that runs on the IBM System z servers such as the z9.