

HILLGANG

The DC VM & Linux Users' Group



Announcing the 15th Meeting of the new Hillgang

- Date: February 13, 2012
- Location: Computer Associates
2291 Wood Oak Drive
Herndon VA
- Time: 8:30 for 9:00 until 2pm

AGENDA

- Breakfast – Brought to you by Vicom Infinity, Inc.
- CSL-WAVE – Len Santalucia
- Why System z – John J Thomas

- z/VM Platform Update – Emily Hugenbruch
- The Living Computer Museum – Bob Barnett

ABSTRACTS

CSL-WAVE

CSL-WAVE is endorsed by IBM STG and has undergone significant enhancements since its inception. CSL-WAVE is a complete management solution for System z-based virtual server environments. The CSL-WAVE solution provides a comprehensive management approach designed with unique simplification technologies. CSL-WAVE's management facilities target Linux on System z system programmers, project managers, and administrators, with special features built to assist the Operations Team and the z/VM System Programmers as well. (Full session description at bottom of brochure.)

Why System z?

Many people think that today's x86 computers can do more or less the same as a mainframe -- after all they have a similar speed and amount of memory, so why not? Well there's a lot more to it than just specifications and benchmarks. This session will overview the many different theoretical and practical differences between Enterprise System z servers and PC-based servers. When IBM engineers design a modern mainframe they make many thoughtful tradeoffs in order to create a balanced optimized system for the most rigorous and varied workload requirements. We will show you the reasons why System z still runs rings around Intel-based servers for both traditional and many modern workloads.

z/VM Platform Update

No time to read official IBM announcement letters and statements of direction? You have the time, but you have questions on what the marketing material means? This fast moving session will survey all the latest news on z/VM. It will review the z/VM 6.2 release, which introduced Single System Image clustering technology and Live Guest Relocation. New powerful functions such as the HiperSockets-VSwitch Bridge and System z High Performance FICON (zHPF) were added to the product via service and will be covered.

The Living Computer Museum

The Living Computer Museum, based in Seattle, preserves and displays working computers from the '60s, '70s, and beyond. These computers make up a repository that recognize the efforts of those creative engineers who made some of the early breakthroughs in interactive computing that changed the world.

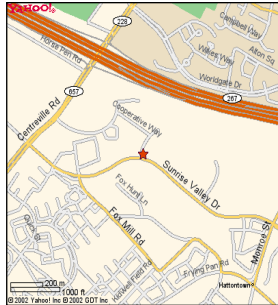
Learn about this collection and the restoration processes that are used to bring these vintage computers back to life.

<http://www.livingcomputermuseum.org/>

PARKING

Parking is available in CA parking lot. Please go to the main entrance of the building.

HOW TO GET THERE



TO RSVP

Send mail to hillgang@vm.marist.edu indicating that you will be attending and if you have any special dietary issues.

To join the HillGang mailing list and receive further announcements about HillGang meetings send email to listserv@vm.marist.edu with the words:

`subscribe hillgang firstname lastname`
in the BODY of your message (not the subject line).
You will receive a confirmation message with information about confirming your subscription.

Hillgang

hillgang@vm.marist.edu

Full CSL-WAVE Session Description

Automation and Simplification

- View the entire server farm laid out graphically
- Ordered Activation/Deactivation of servers
- Execution of customer's REXX as part of the cloning process to allow local z/VM customization
- Run Linux shell scripts against dynamically grouped/filtered servers, as CSL-WAVE

background tasks, listing the results for each selected server - All via the GUI

- Run REXX EXECs against any virtual object with customized parameters and results listing - All via the GUI
- WAVECLI – A CLI for CSL-WAVE actions that can be utilized from Linux shell scripts or Windows Batch files
- Access z/Linux guests directly from the GUI using SSH, 3270 or CLC– No hostnames or IP addresses to remember, simply right-click on the server and select the desired access

Provisioning

- Sophisticated guests cloning including Cross System Clone (Across LPARs and CECs)
- Ability to customize the first boot of a cloned server (Before TCPIP is initialized)
- Very simple creation and manipulation of Vswitches and Guest LANs
- Connect disconnect of guests to Vswitches and/or Guest LANs via the GUI in a drag-n-drop fashion
- Storage management and provisioning at the z/VM and Linux levels (Including LVM support)
- Automatic handling of Real/Dedicated devices via CSL-WAVE's user defined Device Pools

Graphical Control

- Rich GUI as the working environment with graphical views of all managed objects
- Advanced filters, tagging, layouts and layers for every display
- Multiple objects may be selected (via groups, filters or simple mouse selection) for any action

Auto-Detection

- Agent-Less technology!
- Automatic initial detection of all the virtual server farm's components: Servers, Prototypes, Networks, Network Devices and Storage

- Ongoing monitoring of changes made outside of CSL-WAVE after the initial Auto-Detection

Enhanced Server Farm Administration

- Exploits and Graphically enables the new z/VM v6.2 Live Guest Relocation capability
- Interfaces and Complements the Unified Resource Manager by utilizing its new API
- Performance Monitoring – Tapping into the z/VM Performance Toolkit or Velocity Software data collectors
- Intelligent Active Notes (IANs) – Can be attached to any object, and trigger automatic warnings based on a correlation between the CSL-WAVE action attempted and the text in the note
- Communication-less Connection (CLC) – Proprietary non-TCPIP based terminal
- Proprietary 3270 Access to z/Linux console
- CSL-WAVE Log message routing via standard *syslogd* to support central log repositories
- Reporting subsystem with a built-in report-writer
- Custom Attributes may be created and associated with guests which facilitates an extremely powerful, flexible and dynamic grouping capability
- Enterprise-wide views are available with enhanced grouping including the custom attributes for group operation that exceeds the boundaries of a single z/VM instance. Even projects that span across several LPARs and CECs may be controlled via group actions (Start, Stop, ordered or un-ordered with ease)

Network Support

- Centralized, layer-based view of the entire network topology per z/VM System, with cross-system integration
- Define and control all network devices such as VSwitches and Guest LANs

- Manipulation of servers-to-network connect/disconnect using GUI draw tools
- Support for VLAN usage (Trunk/Access modes)
- Management of VSwitches with protocol layer 2 or 3
- Customize CSL-WAVE's network-topology-view with external resources (Routers, LPARs, etc.)

Extended Security

- Security Management via Scopes-and-Permissions sets for each CSL-WAVE user
- Support for RACF and VM:Secure
- LOGON-BY authentication support for 3270 access
- RSA/DSA certificates support for SSH access
- Locking/Unlocking of all managed objects (Virtual and Physical) is only a mouse-click away for authorized users