

# VELOCITY

S O F T W A R E

## Modernizing and Automating the LinuxOne Environment

## **zVPS** PERFORMANCE SUITE

THE WORLD'S LEADING PERFORMANCE MANAGEMENT SOLUTION FOR Z/VM WITH LINUX AND/OR VSE. NEWLY ADDED SUPPORT FOR Z/OS PLUS NO-CHARGE MONITORING FOR X86 LINUX AND WINDOWS.



## **zPRO** CLOUD MANAGEMENT

SOLUTION FOR MODERNIZING THE Z/VM PLATFORM, ADDING ON-PREM CLOUD SUPPORT WITH WEB-BASED CONTROLS FOR Z/VM SYSTEM MANAGEMENT PLUS LPAR CLONING AND ANSIBLE PLAYBOOKS USING VELOCITY'S HIGHLY AVAILABLE SMAPI-FREE API'S.



## **zTUNE** SUPPORT SUBSCRIPTION

VELOCITY SOFTWARE'S ELITE PERFORMANCE SUPPORT SERVICE THAT CREATES AUTOMATED DAILY REPORTS WITH RECOMMENDED ACTIONS



## **zVRM** RESOURCE MANAGER

REAL-TIME MANAGEMENT FACILITY FOR Z/VM WITH LINUX THAT AUTOMATES SYSTEM SETTINGS USING KNOWLEDGE-BASED INTELLIGENCE TO TUNE WORKLOAD REQUIREMENTS AND OPTIMIZE OVERALL SYSTEM PERFORMANCE.



AI – (Actual Intelligence)  
(Peter Enrico quote)



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Modernizing with current technology adds benefits

- Automation results in reduced workloads
- Modern functions improve workflows / save time
  - “single click generation of file pools” – significant time savings
  - “LPAR cloning” – reduced workloads
  - “user empowerment” – reduced paperwork, improves time to market
- Reduced carbon footprint / sustainability

**End result of modernizing should be:**

- **Reduced costs,**
- **Reduced skills**
- **faster development, new applications**
- **Smaller workload doing more with less**

## What is "modern" technology?

Hardware: Z16 / LinuxOne adds huge opportunities

- AI, compression, encryption
- Lower carbon footprint -> sustainability!

### Software

- Linux on z – consolidation, move to modern (away from x)
- Oracle on Linux on z – reduce software costs
- MongoDB / postgres on z – new applications, functions
- Openshift on z - Opportunities
- Ansible – automation (patches, creating servers)
- Grafana dashboards – visibility

z/VM – with zPRO.... Successfully modernizing z/VM

Executive Management – sometimes, but money talks

Lower management – not so much resistance

People about to retire? – They like old stuff

End users? – mostly this is the problem

- Lose control?
- No visibility?
- Learning curve?

```
z/VM ONLINE - Velocity Software

      VV      VV EEEEEEEE LL      0000      CCCC      IIIIII TTTTTTTT YY      YY
      VV      VV EEEEEEEE LL      00 00      CC  CC      IIIIII TTTTTTTT YY      YY
      VV      VV EE      LL      00 00      00 CC      CC      II      TT      YY      YY
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      ***
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      YYY*WWW*YYY
      YYY*YYY
      YY      YY

      Velocity Software, Inc.
      HTTP://WWW.VELOCITYSOFTWARE.COM

      -

      Fill in your USERID and PASSWORD and press ENTER
      (Your password will not appear when you type it)
      USERID  ==>
      PASSWORD ==>
      COMMAND ==>

      RUNNING  VS1VM2
```

## zVWS: Native generalized z/VM Webserver – **base for modernization**

- CMS based, Written in Assembler, very light weight
- Full function, Generalized server – completely eliminates need for SMAPI
- CGIs in rexx, assembler, pl1, etc (**Issue CP, CMS commands directly**)
- VERY EASY to develop web pages and applications

## VelocitySoftware.com (all runs on z/VM natively – **Secure, Simple**)

- VelocitySoftware.com, VelocitySoftware.de, VelocitySoftware.net, etc
- Linuxvm.org, MVMUA.org (and other user groups)
- VMWorkshop.org (greatest conference for z/VM)

## **Many customers utilize zVWS for their own applications (govt, financial)**

### Applications provided by Velocity Software

- zVIEW (Performance data presentation “dashboard”s)
- zPORTAL (GUI interface to managing zVPS)
- zPRO - on prem cloud, modernizing the platform in many ways
- **No smapi, no java, No linux server requirements, no complexities**

Is SMAPI really an option?

SMAPI operation (and support) requirements

VSMREQ/VSMEVS Service Machines

- One or more INET
- one or more IUCV servers,
- plus AF\_EVNT server.

VSMGUARD plus multiple workers (default 3)

- There has to be "long call" and "short call" workers available.

LOHCOST server, DTSMAPI server, PERSMAPI serve

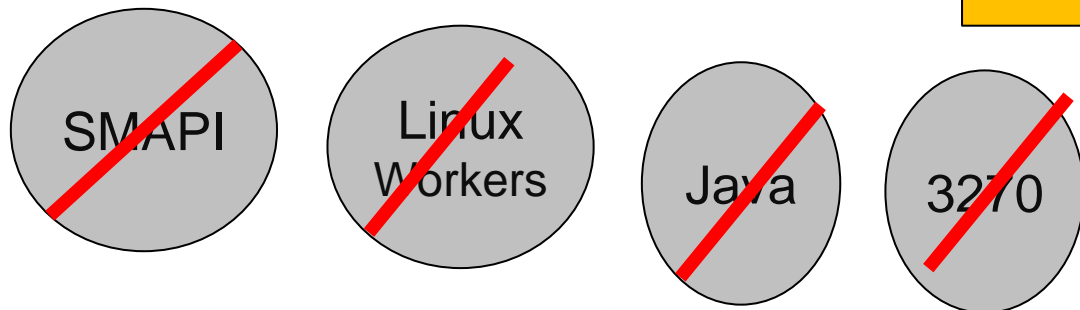
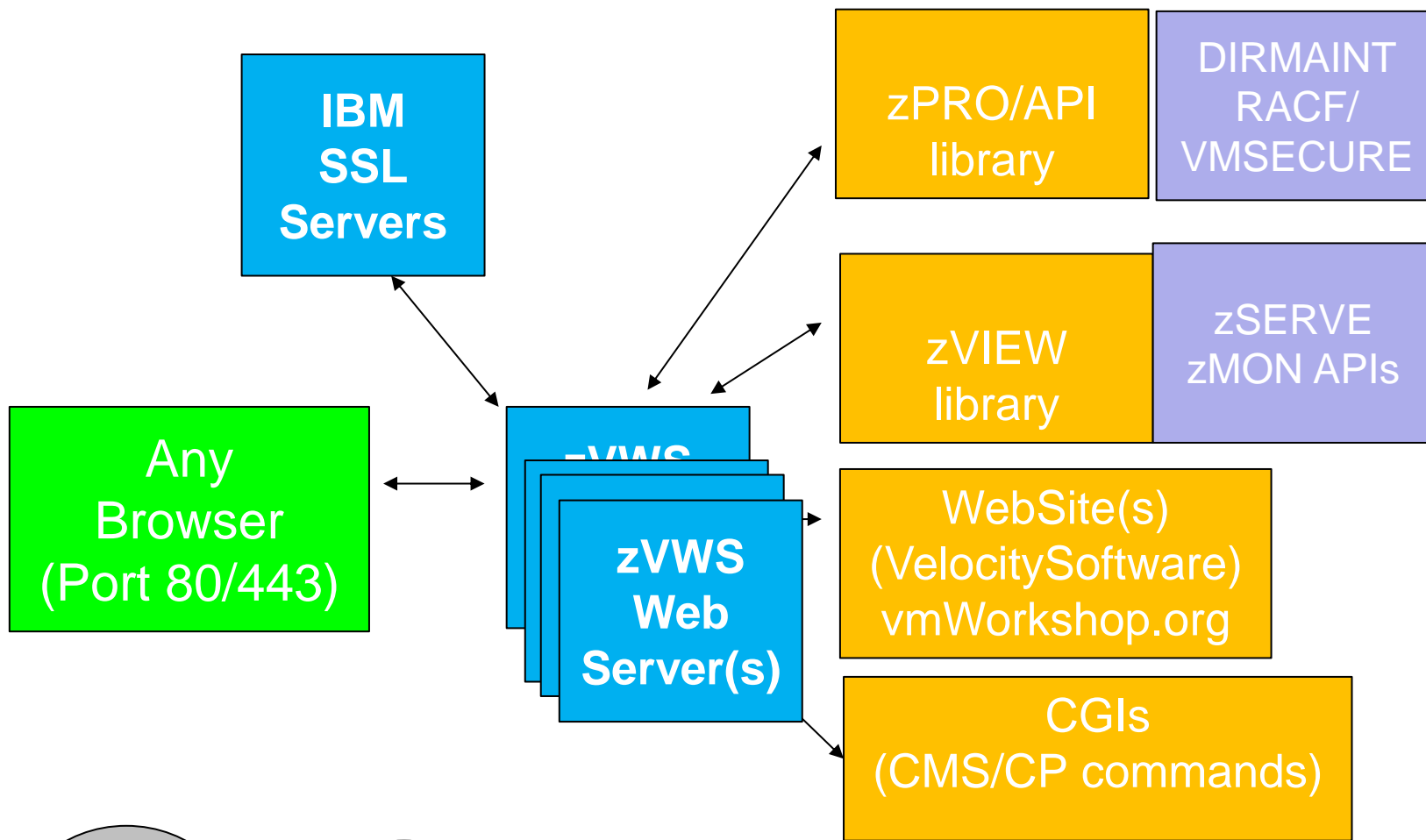
200+ APIs / commands as part of architecture

Linux server(s) to drive the SMAPI requests

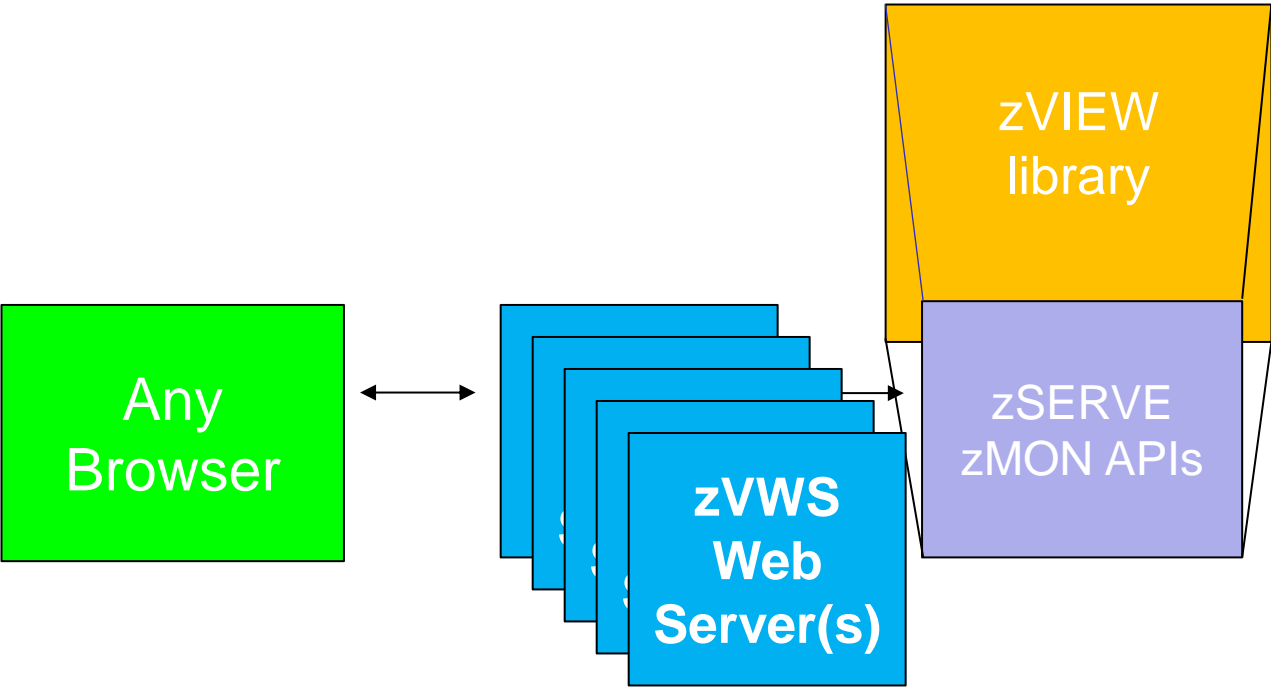
Some number of apache processes?

**SMAPI is complex, overengineered and prone to failure**

As compared to single server zVWS architecture)







- ~~SMA PI~~
- ~~Linux Workers~~
- ~~Java~~
- ~~3270~~

## Linux Performance Management

- Lightweight, one click dashboards
- Full dashboard for all data (zVIEW)
- Provide data (VSIPump) to other dashboards
  - (Grafana, splunk, etc)
  - Linux, Oracle, MongoDB, Postgres, OpenShift
  - Secure container platform
  - Note: IBM “datapump” does not provide Linux data
- Manage performance (zVRM – Velocity Resource Manager)
  - Tailor Linux servers to meet current workload requirements
- Produce health reports
- Alert management (zAlert, zOperator)

## Centralized Management option

- Data from “many” multiple LPARs(50) / geographies(3)

The screenshot displays the 'Enterprise Performance Summary' interface for Velocity Software. The interface is organized into sections: DC1, DC2, and CDL. Each section contains a grid of LPARs (Virtual Logical Partitions) with their respective performance metrics. A red box highlights the text "some installation" in the top right area of the interface.

DC1			
V1P1	Expand	V1P2	Expand
V1P1 08:48 IFL Total (48) @ 726.84%		V1P2 08:48 IFL Total (48) @ 1134.08%	
V1N1	Expand	V1N2	Expand
V1N1 08:48 IFL Total (18) @ 817.16%		V1N2 08:48 IFL Total (24) @ 837.95%	
P107	Expand	P108	Expand
P107 08:48 IFL Total (40) @ 1016.40%		P108 08:48 IFL Total (20) @ 594.27%	
P113	Expand	P114	Expand
P113 08:48 IFL Total (24) @ 558.13%		P114 08:48 IFL Total (24) @ 576.48%	

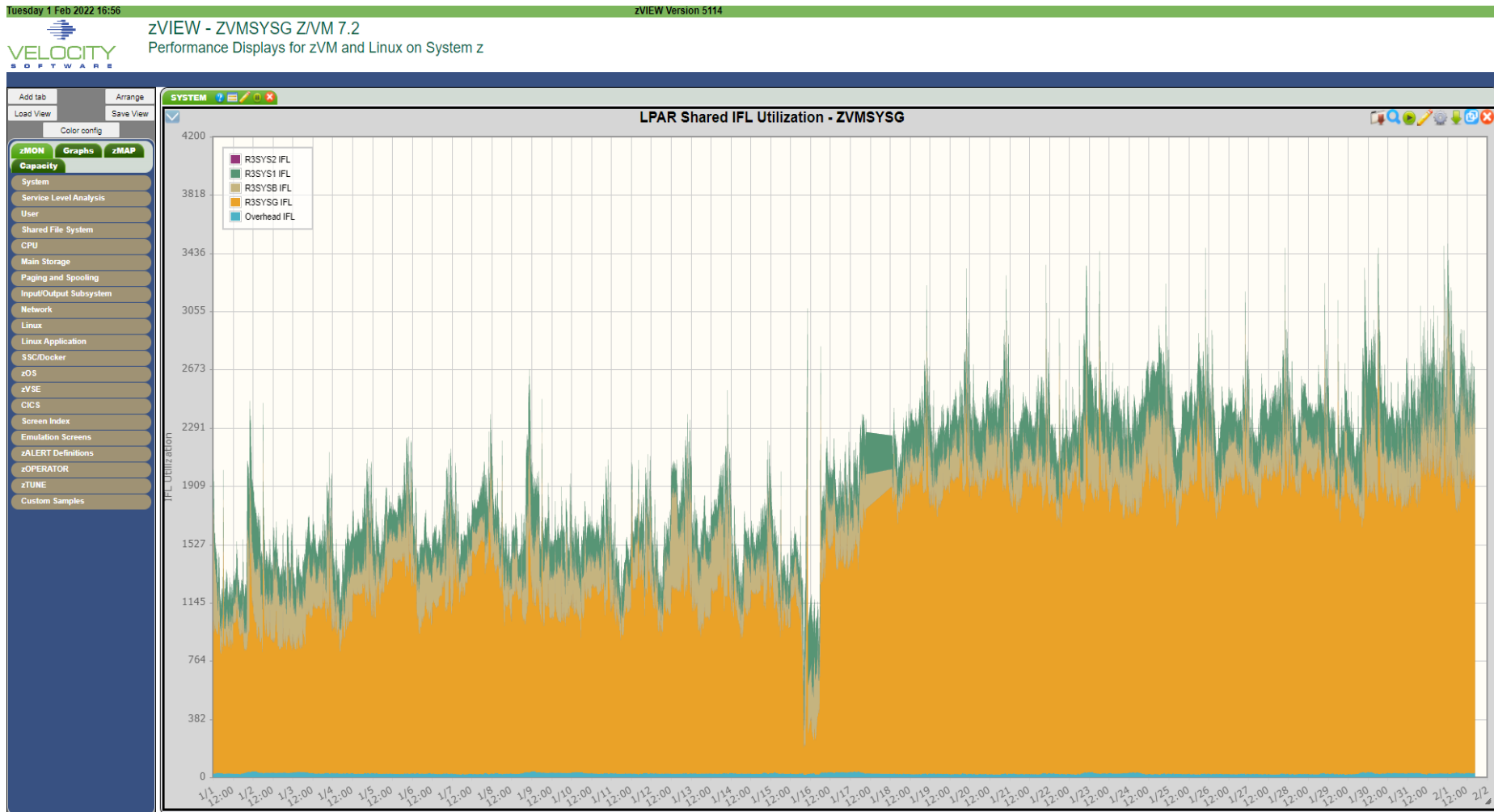
DC2			
V2P1	Expand	V2P2	Expand
V2P1 08:48 IFL Total (48) @ 796.48%		V2P2 08:48 IFL Total (48) @ 846.38%	
V2P5	Expand	V2P6	Expand
V2P5 08:48 IFL Total (40) @ 897.73%		V2P6 08:48 IFL Total (40) @ 454.40%	
P209	Expand	P210	Expand
P209 08:48 IFL Total (56) @ 1572.48%		P210 08:48 IFL Total (64) @ 1739.40%	
P213	Expand	P214	Expand
P213 08:47 IFL Total (40) @ 1173.87%		P214 08:48 IFL Total (56) @ 1265.42%	
P217	Expand	P218	Expand
P217 08:48 IFL Total (40) @ 975.88%		P218 08:48 IFL Total (40) @ 568.81%	
C203	Expand	C204	Expand
C203 08:48 IFL Total (32) @ 862.31%		C204 08:48 IFL Total (32) @ 585.28%	
C207	Expand	C208	Expand
C207 08:48 IFL Total (24) @ 649.58%		C208 08:48 IFL Total (24) @ 892.82%	
V2N3	Expand	V2C1	Expand
V2N3 08:48 IFL Total (20) @ 490.91%		V2C1 08:48 IFL Total (24) @ 974.38%	
V2P3	Expand	V2P4	Expand
V2P3 08:48 IFL Total (48) @ 812.27%		V2P4 08:48 IFL Total (48) @ 699.11%	
P207	Expand	P208	Expand
P207 08:48 IFL Total (56) @ 1429.15%		P208 08:48 IFL Total (64) @ 1865.63%	
P211	Expand	P212	Expand
P211 08:48 IFL Total (44) @ 1222.51%		P212 08:48 IFL Total (44) @ 895.78%	
P215	Expand	P216	Expand
P215 08:48 IFL Total (56) @ 1406.97%		P216 08:48 IFL Total (40) @ 1202.33%	
P219	Expand	P220	Expand
P219 08:48 IFL Total (48) @ 856.11%		P220 08:47 IFL Total (44) @ 496.74%	
C205	Expand	C206	Expand
C205 08:48 IFL Total (20) @ 495.26%		C206 08:47 IFL Total (20) @ 685.34%	
V2N1	Expand	V2N2	Expand
V2N1 08:48 IFL Total (20) @ 805.03%		V2N2 08:48 IFL Total (20) @ 1034.47%	

CDL			
VLB1	Expand	VLB2	Expand
VLB1 08:48 IFL Total (52) @ 2840.84%		VLB2 08:48 IFL Total (36) @ 2868.00%	
VLB3	Expand	VLB4	Expand
VLB3 08:48 IFL Total (40) @ 3273.59%		VLB4 08:48 IFL Total (38) @ 2291.49%	
VLB5	Expand	VLB6	Expand
VLB5 08:48 IFL Total (48) @ 646.12%		VLB6 08:48 IFL Total (28) @ 2287.44%	
VLB8	Expand	VLB9	Expand
VLB8 08:48 IFL Total (24) @ 1623.21%		VLB9 08:48 IFL Total (24) @ 1623.21%	
ZS01	Expand	ZS02	Expand
ZS01 08:48 IFL Total (16) @ 113.72%		ZS02 08:48 IFL Total (16) @ 9.82%	
VLBX	Expand	HIL1	Expand
VLBX 08:48 IFL Total (3) @ 99.90%		HIL1 08:48 IFL Total (64) @ 85.85%	
HIL2	Expand	HIL3	Expand
HIL2 08:48 IFL Total (60) @ 92.92%		HIL3 08:48 IFL Total (60) @ 92.92%	

## Dynamic Charts

- Data extracted from database dynamically to create graph, example last month



## End users define their dashboard(s)

- Linux administrator dashboard provided, everything in one click
- Secure, no need for logon to Linux (no ssh, top)
- Fast and efficient, no restriction on numbers of viewers

Wednesday 7 Nov 2018 00:46 zVIEW Version 4310

**VELOCITY SOFTWARE** zVIEW - Velocity Software - VSIVM4 (DEMO)  
Performance Displays for zVM and Linux on System z

The screenshot displays the zVIEW interface with the following components:

- mylinux** window: A list of Linux processes on node ZSXL0006, including systemd, kthreadd, kworker, mm\_percpu\_wq, ksoftirqd, rcu\_sched, rcu\_bh, migration, cpuhp, kdevtmpfs, netns, khungtaskd, oom\_reaper, writeback, kcompactd, ksm, crypto, kintegrityd, kblockd, md, cio, watchdog, kworker, cmmthread, kauditd, kswapd, ecryptfs-kthrea, kthrotld, khvcd, kmcheck, ipv6\_addrconf, kworker, jbd2/dasda1-8, ext4-rsv-conver, vfio-ccw, qeth\_wq, kworker, systemd-journal, systemd-udev, systemd-timesyn, and cron.
- ESALNXP - VSI Linux Percent Usage by Process - DEMO**: A table showing CPU usage by process.
 

Time	Node	Name	ID	PPID	GRP	Tot	sys	user	syst	usr	val	prty	Size	RSS	Peak	Swap	Data	Stk	EXEC
00:46:00	lxdb2001	*Totals*	0	0	0	0.6	0.1	0.1	0.1	0.3	0	0	4549	322	4557	0	1391	4.8	3.8
00:46:00	lxdb2001	init	1	1	1	0.0	0.0	0	0	0	0	20	2.4	0.9	2.4	0	0.2	0.1	0.0
00:46:00	lxdb2001	snmpd	2200	1	2199	0.1	0.1	0.1	0	0	-10	10	29.7	13.4	37.1	0	17.3	0.1	0.0
00:46:00	lxdb2001	cron	2223	1	2223	0.1	0	0	0	0	0	20	2.6	0.9	2.7	0	0.2	0.1	0.0
00:46:00	lxdb2001	db2fmc	2245	1	2245	0.4	0	0	0.1	0.3	0	20	50.9	13.9	51.0	0	3.5	0.2	0.1
00:46:00	lxdb2001	db2sysc	2833	2831	2833	0.0	0.0	0	0	0	0	20	877	91.6	877	0	262	0.1	0.1
00:46:00	lxora12	*Totals*	0	0	0	1.2	0.3	0.9	0	0	0	0	3970	724	4197	115	1845	6.6	7.4
00:46:00	lxora12	amozxae	1503	1	1503	0.0	0	0.0	0	0	0	20	250	10.1	314	0.9	66.3	0.1	0.4
- ESAHST2 - LINUX HOST Storage Analysis Report - DEMO**: A table showing storage utilization.
 

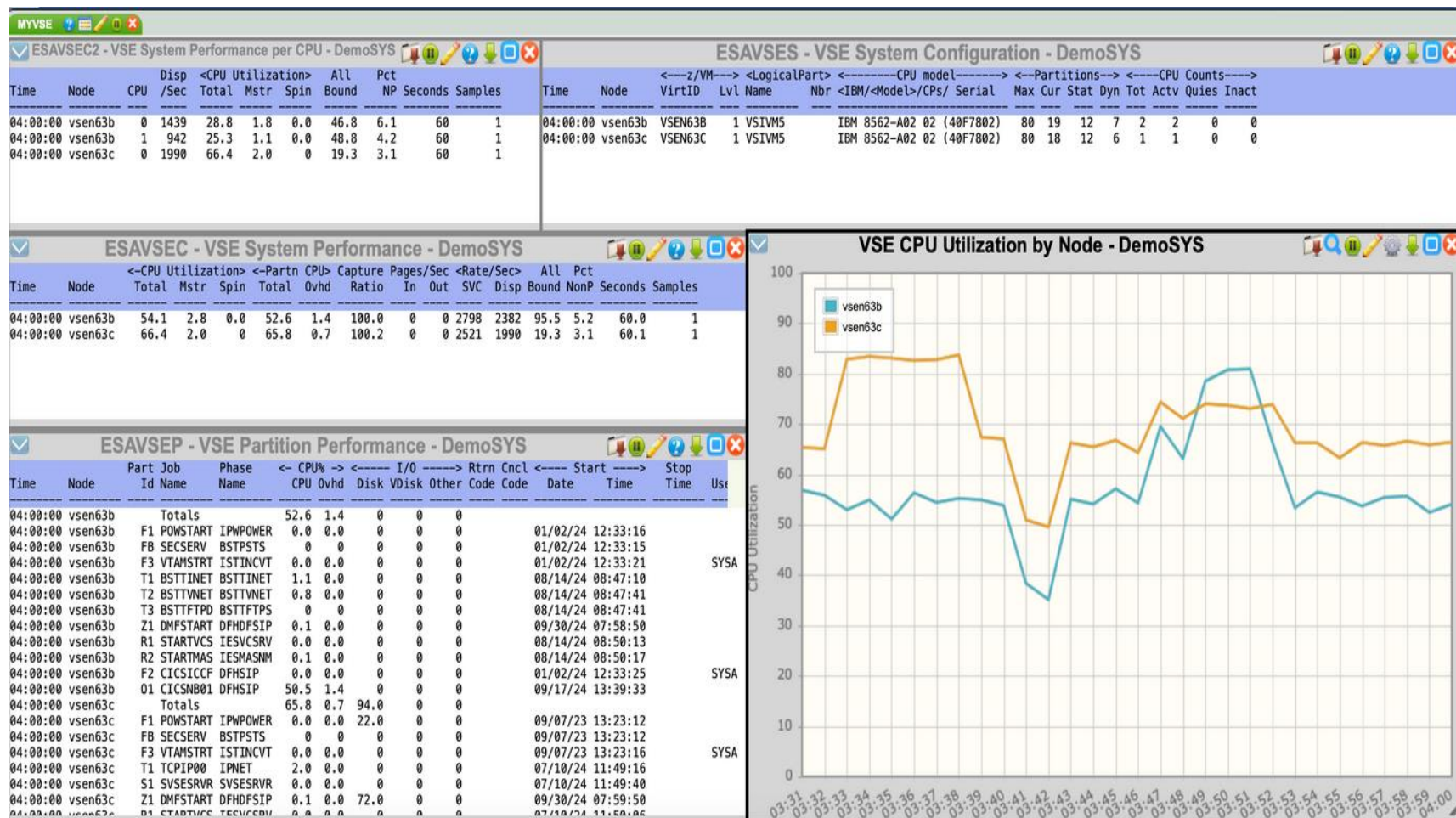
Time	Node/Group	Index	Size	Used	Full	Err	Units	R/W	Boot	Storage Description
00:46:00	ZPRO	0	196K	109K	55.7	0	1K			Totals
00:46:00	VPNS	0	5376	5376	100	0	1K			Totals
- ESAUCD2 - LINUX UCD Memory Analysis Report - DEMO**: A table showing memory usage.
 

Time	Node/Group	Real Storage (MB)	SWAP Storage (MB)	Total	Storage in Use (MB)
00:46:00	ZPRO	4500	3	4503	3192
00:46:00	VPNS	4000	0	4000	2000
- ESAUCD4 - LINUX UCD System Statistics Report - DEMO**: A table showing system statistics.
 

Time	Node/Group	Processor Total	Pct Avail	User	Nice	Idle	Swaps	Disk IO	Switch	Intrpt	Load
00:46:00	ZPRO	2.7	1.2	1.4	0	1188	0	0	0	56.7	2080.5
00:46:00	VPNS	10.1	4.2	5.9	0	389	0	0	0	180.5	733.9
- ESAHST4 - LINUX HOST System Statistics Report - DEMO**: A table showing system statistics.
- LPAR...** window: A graph showing IFL Utilization over time. The Y-axis ranges from 0 to 200. The X-axis shows time from 15:20 to 15:50. The graph includes data for VSIVM5 IFL (purple), VSIVM2 IFL (green), VSIVM1 IFL (orange), VSIVM4 IFL (yellow), and Overhead IFL (blue).

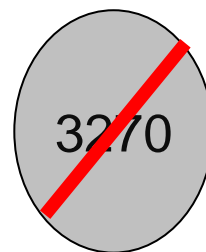
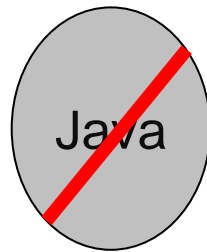
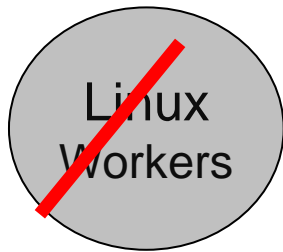
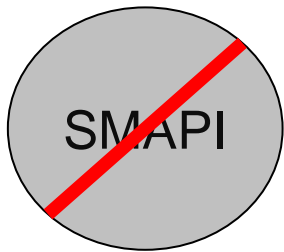
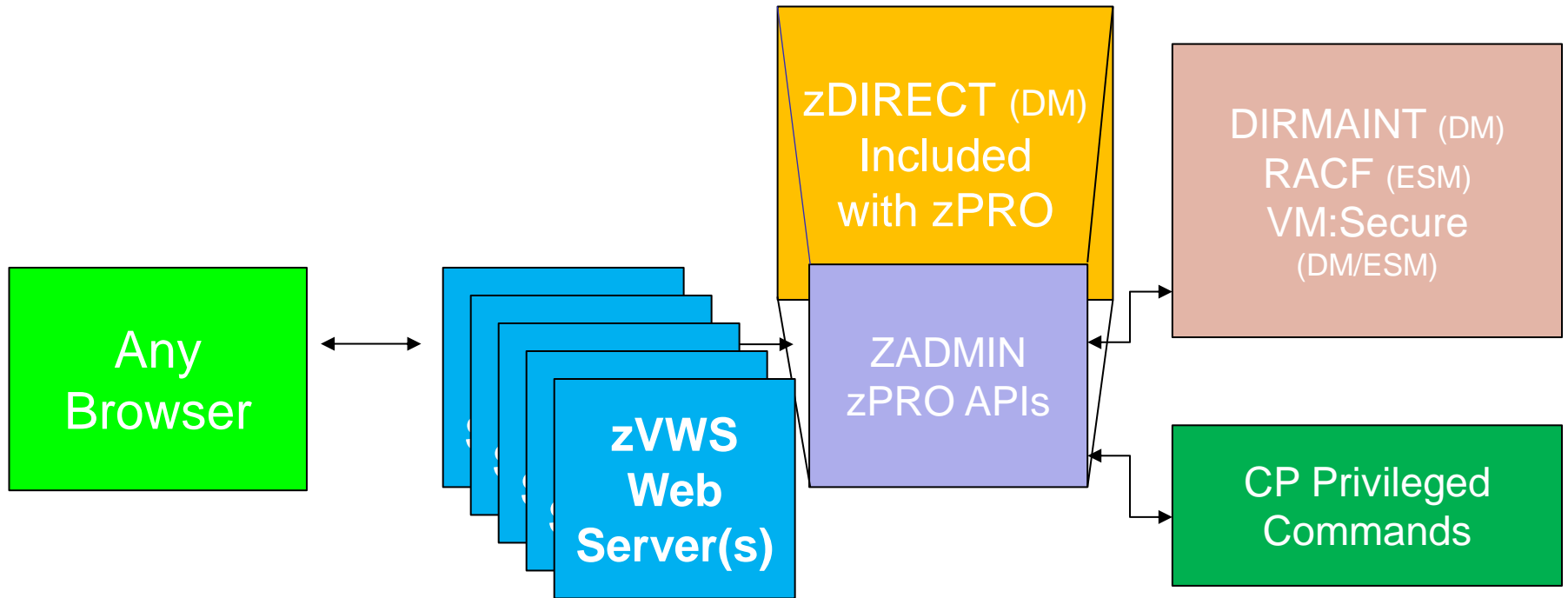


# End users define their dashboard(s)



## Modernizing z/VM with zPRO

- Native webserver (executes cms/cp commands easily)
- Integrated Browser / graphical interface (java not required/wanted)
- Light weight APIs (no linux, java, can be used by Ansible)
- **User empowerment (users maintain “control”)**
- **Task delegation**
- **On-prem cloud** administration and management





# What the Linux admin might see on LinuxOne

The screenshot shows the Velocity Software zPRO Enterprise Cloud Management interface. The browser address bar displays `demo.velocitysoftware.com/zpro/`. The page title is "zPRO Enterprise Cloud Management VSIVC1". In the top right corner, the user is identified as "IAMUSER" with a "Settings" link. Below the navigation bar, there are buttons for "Auto Arrange", "Refresh All", "Minimize All", and "Close All".

On the left side, there is a sidebar menu with the following options:

- Create Servers
  - Request CMS virtual machine
  - Request RHEL 8.5 Linux
  - Request RHEL 9 Linux
  - Request SLES 15 Linux
  - Request Ubuntu 17.10 Linux
- Server Management
- View Resources

The main content area displays a "Server List for IAMUSER" table with columns for selection, server name, and details. The table lists three servers: SLFSRV11, SLFSRV14, and SLFSRV15. A terminal window titled "Session 1 - SLFSRV11" is open, showing a green "zPRO" logo and the text "Command Interface to SLFSRV11 ready". The terminal output shows the command `ls` being executed, resulting in the following directory listing:

```
Running: ls
bin
boot
dev
etc
home
lib
lost+found
media
mnt
opt
proc
root
run
sbin
srv
sys
tmp
usr
var
```

At the bottom of the terminal window, the command `>> ls usr` is entered. Below the terminal window, there are "Actions" and "View Log" buttons.

# What the Linux admin might see on LinuxOne

demo.velocitysoftware.com/zpro/

VELOCITY SOFTWARE zPRO Enterprise Cloud Management VSIVC1 IAMUSER Settings

Auto Arrange Refresh All Minimize All Close All

Create Servers  
 Request CMS virtual machine  
 Request RHEL 8.5 Linux  
 Request RHEL 9 Linux  
 Request SLES 15 Linux  
 Request Ubuntu 17.10 Linux

Server Management  
 View Resources

CloudDemo

Server List for IAMUSER

Line 1 of 3  Running  Down  Changing State

Sel	Server	Description	Hostname	IP Address	Owner	Group	Expiration	System
<input type="checkbox"/>	SLFSRV11	UBUNTU 17.10 Linux for IAMUSER	slfsrv11	10.0.0.7	IAMUSER	ENDUSER	NONE	VSIVC1
<input type="checkbox"/>	SLFSRV14	RHEL 9 Linux for IAMUSER on Demo	slfsrv14	10.0.0.2	IAMUSER	ENDUSER	NONE	VSIVC1
<input type="checkbox"/>	SLFSRV15	Full SLES 11 Linux for IAMUSER	slfsrv15	10.0.0.3	IAMUSER	ENDUSER	NONE	VSIVC1

Actions View Log Details Edit MDisks Chg Password Cmd Win Spool Files

# What the Linux admin might see on LinuxOne

The screenshot shows a web browser window at `demo.velocitysoftware.com/zpro/`. The page title is "zPRO Enterprise Cloud Management VSIVC1". The interface includes a navigation sidebar on the left with options like "Create Servers" and "Server Management". The main content area is titled "Edit Guest - SLFSRV11" and contains the following configuration details:

- Description:** UBUNTU 17.10 Linux for IAMUSER
- Virtual CPUs:** 2 (Note: Restart the server after changing)
- Adjust Relative SHARE on vCPU change
- Virtual Memory:** 256 M
- Standby Virtual Memory:** G
- Maximum Virtual Memory:** 256 M
- Enabled (can be Started)
- Disabled (cannot be Started)

An "Update" button is located at the bottom of the configuration panel. The top right of the interface shows "IAMUSER Settings" and a "Relaunch to update" button.

## z/VM Administrators to support on-prem cloud

- Lun management – browser based
- Spool management – browser based
- Scheduling – browser based
- Backup / Restore – browser based
- HMC management (LPAR configurations)
- New 3270 requirements can be “zpro’d”

## z/VM Systems Programmers

- 3270 required, z/VM skills required
- Performance management
- Software updates (services contracts available)
- System configuration management (page/spool packs)

## Event Scheduler

- Schedule and manage events across your systems

## zDIRECT: Directory and Storage Pool management

- Add/Delete DASD volumes in your storage pools

## zSPOOL: Spool management

- Manage all spool files
- View **via browser** open or closed spool files
- Allow Linux administrators to view their Linux consoles easily

## Backup & Restore

- Backup and restore key/critical files
  - (system config, directory, TCPMAINT)
- Back up files on selected minidisks, sfs file pools

## Shared File System (SFS) Management

- Manage pool servers, users/admins, space management,
- build a new pool

# What the z/VM sys prog might see on LinuxOne

VELOCITY SOFTWARE zPRO Enterprise Cloud Management VSIVM1 (Corporate) New Notifications (2) BARTO Setting

Auto Arrange | Refresh All | Minimize All | Close All

z/VM Shared File Systems Management

Line 1 of 2

Click  Function  Description

Open  List All Shared File System Pools  List all pools found on the system with details of each resource along

Open  Shared File Systems

Line 1 of 18

Sel	System	Pool Name	Owning Userid	Res Type	Pool Type	Stg Groups	Authorized
<input type="checkbox"/>	VSIVM1	BFSSRVR	BFSSRVR	GLOBAL	LOCAL	2	ADMIN
<input type="checkbox"/>	VSIVM1	MVMUA	MVMUA	GLOBAL	LOCAL	2	ADMIN
<input type="checkbox"/>	VSIVM1	SFSVM1	SFSVM1	GLOBAL	REMOTE	2	ADMIN
<input type="checkbox"/>	VSIVM1	SFSZVPS1	SFSZVPS1	GLOBAL	REMOTE	2	ADMIN
<input type="checkbox"/>	VSIVM1	S64SRV11	VMSEVP	GLOBAL	LOCAL	2	LIMITED
<input type="checkbox"/>	VSIVM1	VMSYS	VMSEVP	LOCAL	LOCAL	2	LIMITED
<input type="checkbox"/>	VSIVM1	VMSYSU	VMSEVP	LOCAL	LOCAL	2	USER
<input type="checkbox"/>	VSIVM1	VSIFTP	VSIFTP	GLOBAL	REMOTE	2	ADMIN
<input type="checkbox"/>	VSIVM1	VSIPRB	VSIPRB	GLOBAL	REMOTE	2	ADMIN
<input type="checkbox"/>	VSIVM1	VSIWEB	VSIWEB	GLOBAL	LOCAL	2	ADMIN
<input type="checkbox"/>	VSIVM1	WORKSHOP	WORKSHOP	GLOBAL	REMOTE	2	ADMIN
<input type="checkbox"/>	VSIVM4	ESAWEB	ESAWEB	GLOBAL	LOCAL	2	ADMIN
<input type="checkbox"/>	VSIVM4	LINUXVM	LINUXVM	GLOBAL	LOCAL	2	ADMIN

List Users | List Admins | All Directories | Full Report | Add Disk to SFS Pool

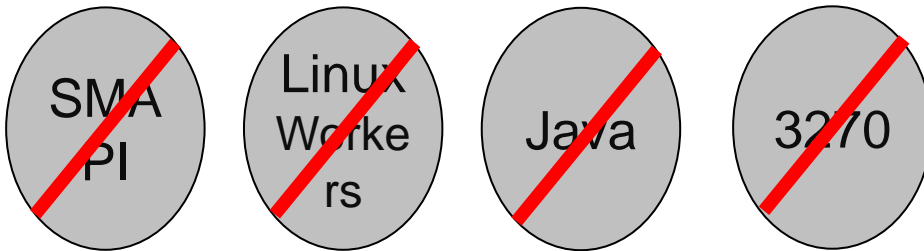
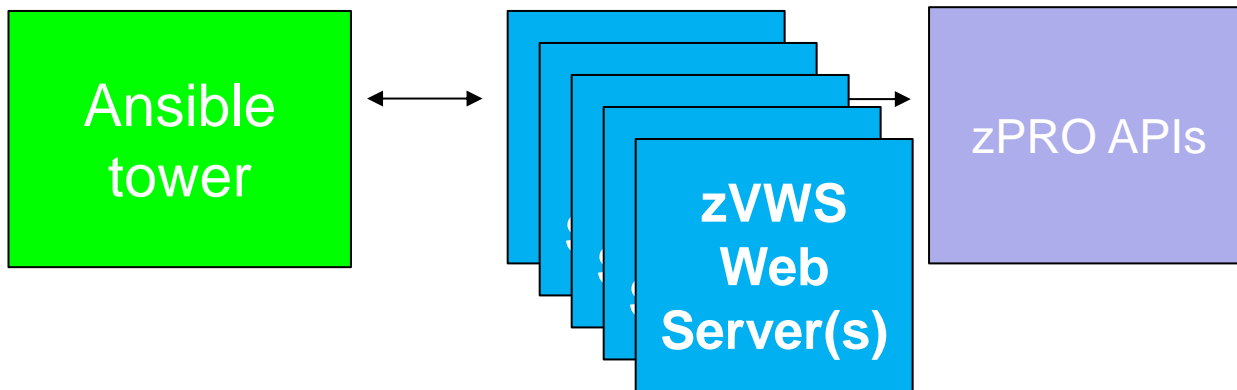
Default Site: Enable | Pause  
Corporate  
DemoSYS4  
Development



## Native HMC Management for LinuxOne with zPRO...

The screenshot displays three overlapping windows from the zPRO HMC management interface:

- CPC HMC Configurations zDIRECT:** A table showing HMC configurations for 'Not\_Datacenter' and 'VSI\_Datacenter'.
- CPC HMC VSI\_Datacenter - CONNECT:** A table showing the status of the HMC, including CPU usage (37%), power (1231), and temperature (58.4C).
- CPC HMC VSI\_Datacenter - P0040F78 LPARS:** A table listing 12 LPARs (VSIVM6, VSIVC1-4, VSIVM1-5, ZOSLP1-2) with their status, OS, and usage.
- LPAR VSIVM5 Weight Configuration - ZDIRECT:** A dialog box for adjusting weights for LPAR VSIVM5, showing current weights for CP (75), IFL (150), and ZBP (75).





## Very Simple architecture

- Simple to install (hours to install and tailor, requires zVPS)
- Uses Velocity Software's Native z/VM Web Server (zVWS)!
- No "smapi", **No "linux server" requirements**, No java
- **Non-intrusive, no system modifications**
- Outside services not required
- (as compared to xcat, cma, ....)

## Original Intent: Private Cloud infrastructure

- Users create and manage their servers without systems support
- Protected environment
- Linux administrators can manage their "Virtual Machine"

## Benefits

- Difficult time consuming tasks - simplified
- End users empowered
- Reduced need for skilled systems programmers

## zPRO'd other complex tasks

- Lun/Edev management – connects directly to DS8K / EMC
- LPAR management – connects directly to HMC
- Linux management – API allowing Linux commands
- Directory management – DIRMAINT, VMSecure, zDIRECT
- RACF wizard
- Restful APIs replace SMAPI

## Empower your users!

“demo.VelocitySoftware.com/zPRO”

- Linux server administration
- Demo limited to “cloud” functionality
- Create servers, modify servers, delete servers
- Limited in scope to protect other servers
- Automatic life cycle management
- Used for education

## Velocity Software demonstration site

- "http://demo.VelocitySoftware.com"
- zVIEW, enterprise, zPRO, zPORTAL

To register: <https://demo.velocitysoftware.com/zpro/>

Userid: **demozpro**

Password: **demodemo**

Check email for  
your login info

### Welcome to the Velocity Software zPRO Demo Site

Velocity Software maintains a cloud for demonstration purposes and for supporting your education needs.

If you do not yet have a Demo System userid, login with the userid of DEMOZPRO and password DEMODEMO to create one.

If you need assistance, contact [support@velocitysoftware.com](mailto:support@velocitysoftware.com)



**Register for VSI Cloud** ⓘ ✕

You are requesting a **limited access** id for working with Velocity Software's zPRO cloud product.

First name

Last name

User's Email address

## zVPS:

- Continuous enhancements for 30+ years
- Enterprise Monitoring and Management

## zPRO & zVRM

- On-Prem Private Cloud Enablement and Environment
- z/VM Systems Management
- Modern Platform and management
- Improved productivity for all parties
- Reduces impact of lack of skills

## zTUNE

- Performance Recommendation and Tuning Report

## Velocity Software

- Worldwide customer base
- World's best for Performance Management experts

Any questions?

Contact me:

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