

**zPRO, giving
“control” back to
your users....**

The Velocity Software lab

BC12, 2 IFLs, 2 GP, 6800 (slow), 8800(fast) (ECKD, FCP)

z/VM 5.4, 6.3, 6.4 SSI (soon to be all 6.4)

VSE 4.2,5.1,5.2

Linux (on z **AND X**) – first day support always

- Redhat 3,4,5,6,7
- Suse 7,8,9,10,11,12
- Ubuntu

VMWare, Microsoft, VPNs

Oracle (10, 11, 12), Websphere (**minecraft**)

Docker

zCLOUD (zPRO Demonstration Site)

zPRO gives “control” back to the user

- Give the users 100 vcpu and 60gb and 20 servers
- Users manage their resource as if it was their own
- Users can change their configuration within the limits

User actions

- Define servers
- Modify servers (vcpu, storage size)
- Start/Stop servers
- Delete servers

zVPS: More than 1/2 IFLs worldwide run zVPS

- Web server included – It is a NATIVE CMS webserver
- Very light weight
- Full Performance Monitoring of systems, networks, apps
- including Linux and Oracle metrics

zPRO

- Browser based end user interface for managing servers
- Very Simple solution
- no SMAPI, No Datamove, No Linux apache
- **Installs in 10 minutes**
- Supports RACF, LDAP, z/VM identity sign on

Velocity Software supports education

- North Carolina State University uses zcloud
- Hundreds of students are learning virtualizations

Cloneable servers include

- CMS users
- Linux servers (read only)
- Linux servers to break
- Oracle servers
- z/VM 2nd level servers

Other z/VM cloud solutions are complex and heavy

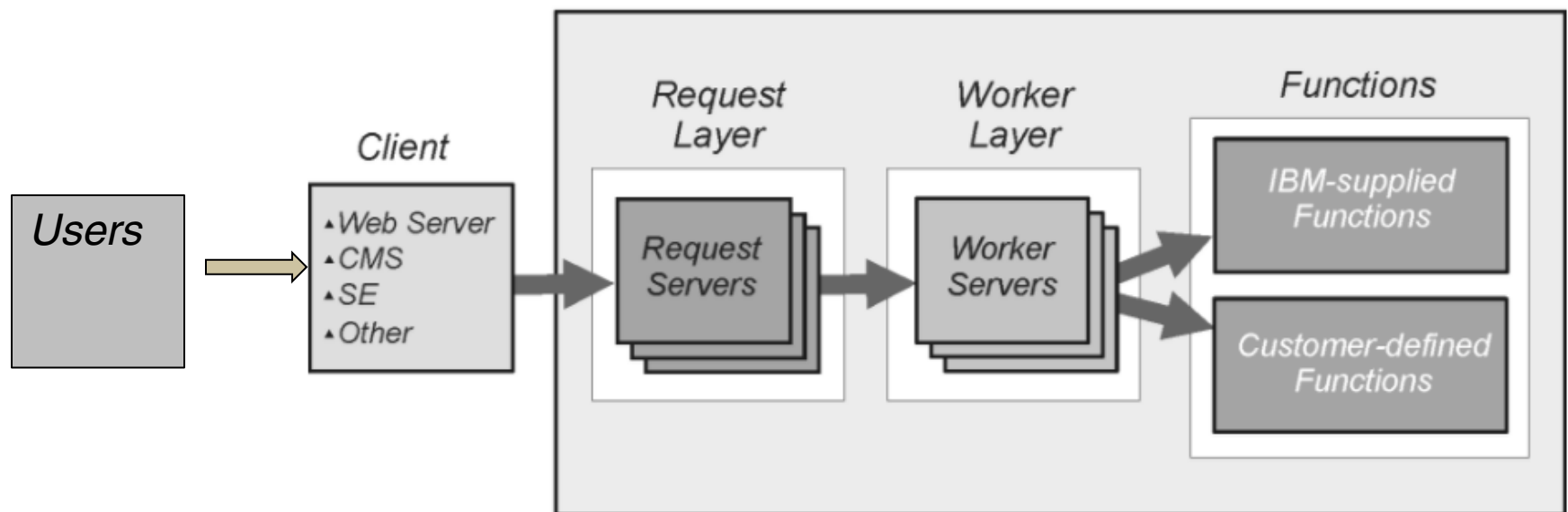
- They all use **SMAPI** to perform various tasks on **z/VM**. Before being installed, **SMAPI** must be configured and operational
- “Verify that you have enough SMAPI worker machines that can handle the workload. If needed, add more SMAPI worker machines.”
- HTTP provided by Linux apache server requiring Linux

CMA / XCAT extremely challenging

- Openstack is still the direction
- Very few users (Marist/IBM) implemented CMA or XCAT (we tried)

SMAPI Architecture for CMA, XCAT, WAVE “client” is a Linux server running apache

Socket-based Server Environment

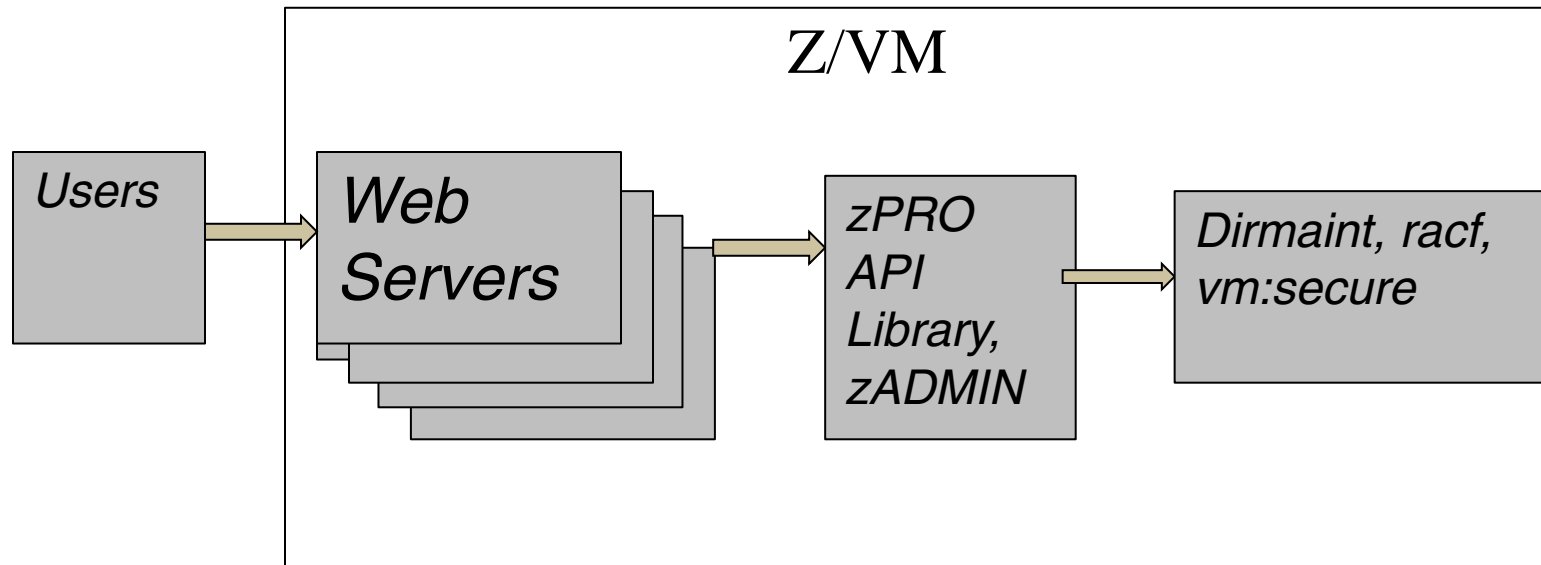


zPRO Simplified Architecture

No Linux requirement

API Library extensible to OpenStack...

No “data move” machines needed.



zPRO for demonstration and education

To register: “<http://zPROv2.VelocitySoftware.com>”

Userid is “demozpro”,
Password “demodemo”

The screenshot shows a web browser window at the URL `demo.velocitysoftware.com/zprov2/`. The page header includes the Velocity Software logo, "Self Service", and "VSIVM4". A navigation menu on the left shows "Self Service" selected, with sub-options for "Back" and "Register for VSI Cloud". A modal window titled "Register for VSI Cloud" is open, displaying a message: "You are requesting a **limited access** id for working with Velocity Software's zPRO cloud product." Below the message are three input fields: "First name", "Last name", and "User's Email address". A "Process Request" button is located at the bottom of the modal.

zPRO for demonstration and education Registration information sent to email

Register for VSI Cloud

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

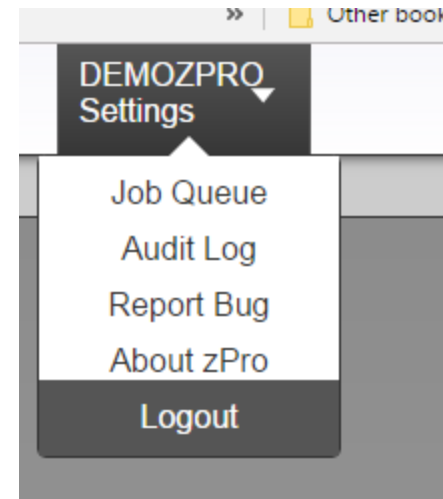
First name
barti

Last name
ro

User's Email address
barton@velocitysoftware.com

VDGI0030 successfully added. An email has been sent to barton@velocitysoftware.com with access instructions. X

OK



zPRO easily tailored to meet customer desires. Cloning includes any golden image (z/VM even)

User chooses vcpu, memory, expiration limits

Self Service

- ← Back
- Clone a Virtual Machine
- Change a user's password
- Display/Modify owned servers
- Resource graph
- Server Performance

> zPro

Clone a Virtual Machine

Image to Copy
GOLDVDM ▼

New ID
GEORGEVM

Password
.....

Verify Password
.....

No. Cpus
1 ▼

Memory Size
256 M ▼

Days to expiration
2

Auto Start Server

Process Request

Step 1 of cloning GOLDVDM to GEORGEVM completed.
Step 2 Minidisk copy started, JobQueue will show the progress

And now there is a z/VM system to play with

logon georgevm

Enter your password,

or

To change your password, enter: **ccc/nnn/nnn**

where **ccc** = current password, and **nnn** = new password

ICH70001I GEORGEVM LAST ACCESS AT 20:08:58 ON TUESDAY, JUNE 6, 2017

NIC 0600 is created; devices 0600-0602 defined

z/VM Version 5 Release 4.0, Service Level 1301 (64-bit),

built on IBM Virtualization Technology

There is no logmsg data

FILES: NO RDR, NO PRT, NO PUN

LOGON AT 20:10:02 PDT TUESDAY 06/06/17

z/VM V5.4.0 2014-03-11 14:07

To IPL z/VM, enter command LEVEL2 and at the SAIPL screen,

use parm CONS=0009

Ready; T=0.01/0.01 20:10:02

19:14:22 Start ((Warm|Force|COLD|CLEAN) (DRain) (DISable) (NODIRECT))

19:14:22 (NOAUTOlog)) or (SHUTDOWN)

And delete when done

The screenshot shows the 'zPro' Self Service interface. On the left is a navigation menu with options like 'Back', 'Clone a Virtual Machine', 'Change a user's password', 'Display/Modify owned servers', 'Resource graph', and 'Server Performance'. The main area displays the 'Clone a Virtual Machine' dialog with fields for 'Image to Copy' (GOLDVM), 'No. Cpus' (1), 'New ID' (GEORGEVM), 'Password', and 'Verify Password'. A modal window titled 'Server List for GEORGE' is overlaid, showing a table of servers with columns for 'Sel', 'Server', 'Expiration', 'System', and 'Status'. The 'GEORGEVM' server is selected. Below the table are buttons for 'Start', 'Stop', 'Delete', 'View Log', 'Edit', and 'MDisks'.

Server List for GEORGE

Sel	Server	Expiration	System	Status
<input type="checkbox"/>	BLAKEMC	No-Expiration	VSIVM4	Not Running
<input type="checkbox"/>	BLAKENEW	17/06/03-14:11:43	VSIVM4	Running
<input checked="" type="checkbox"/>	GEORGEVM	17/06/08-20:05:43	VSIVM4	Not Running

Navigation: << 1 >>

Actions: Start Stop Delete View Log Edit MDisks