zPRO, giving "control" back to your users….

VELOCITY SOFTWARE

PROVEN PERFORMANCE

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

Velocity Software Objectives

zVPS: More than ½ 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

SMAPI is “heavy”

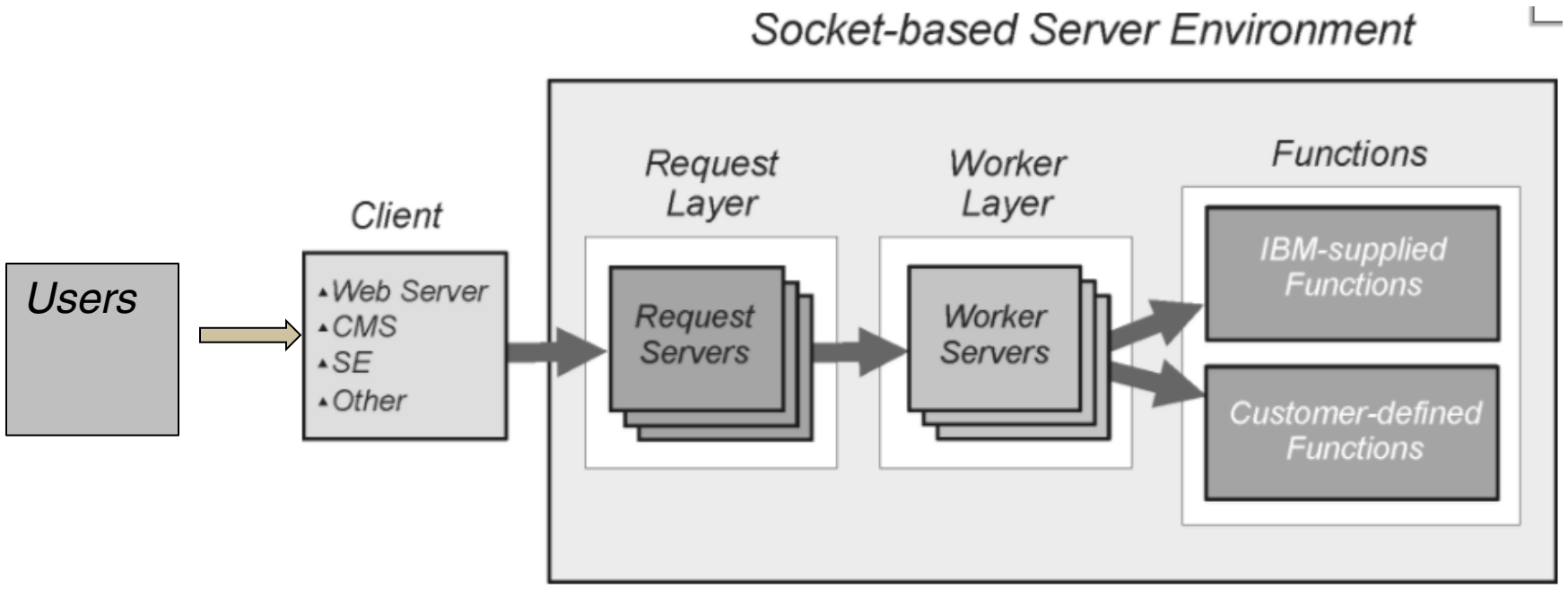
Other z/VM cloud solutions are complex and heavy

- 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

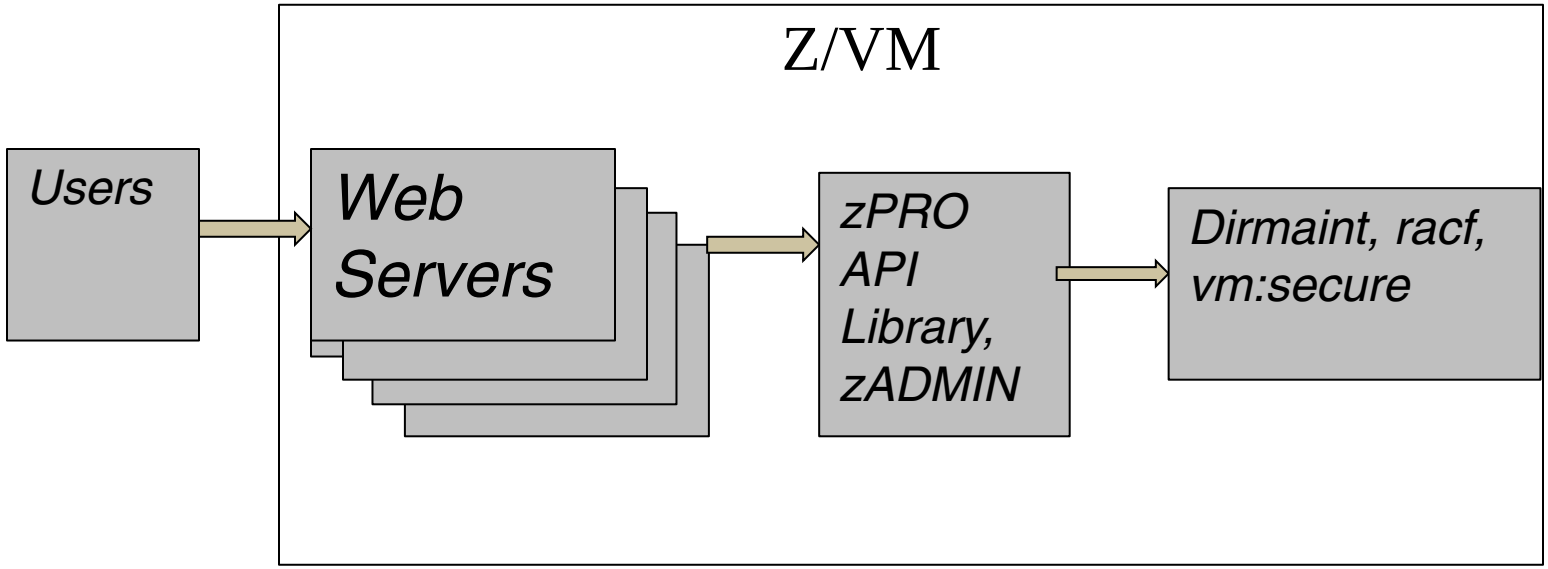


zPRO Simplified Architecture

No Linux requirement

API Library extensible to OpenStack…

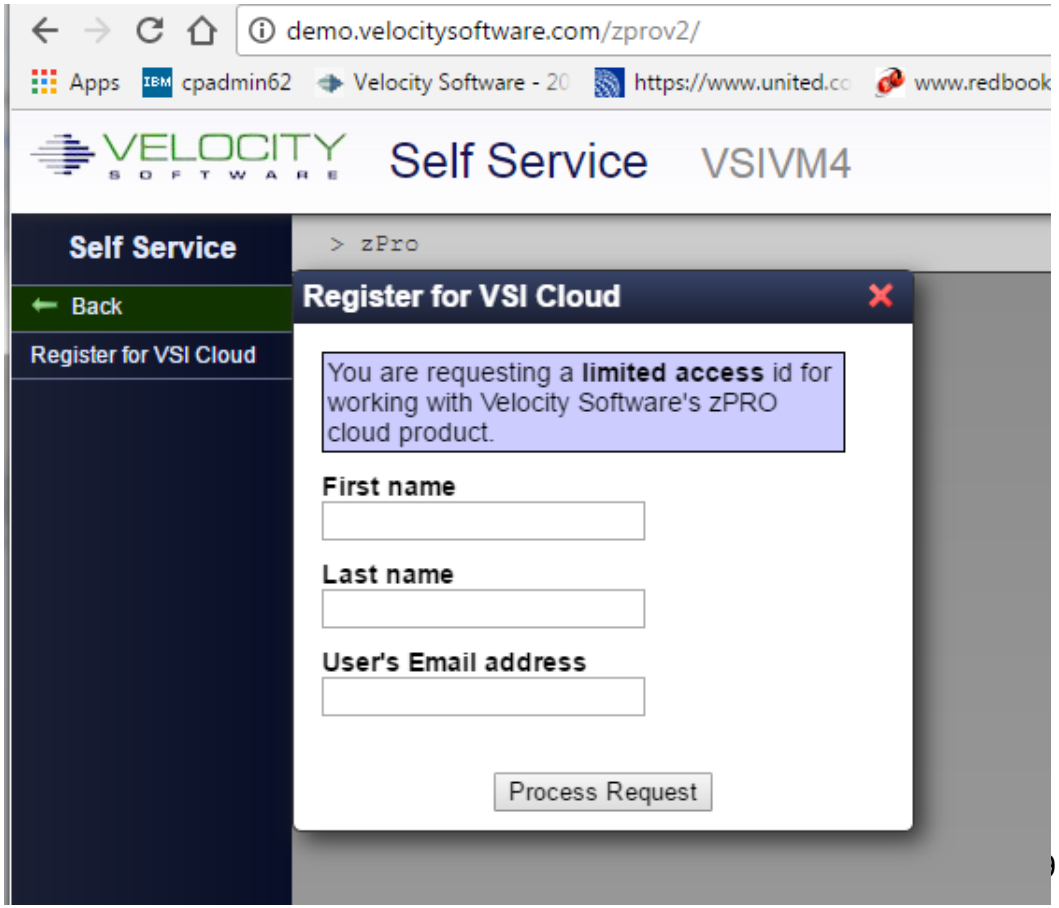
No “data move” machines needed.



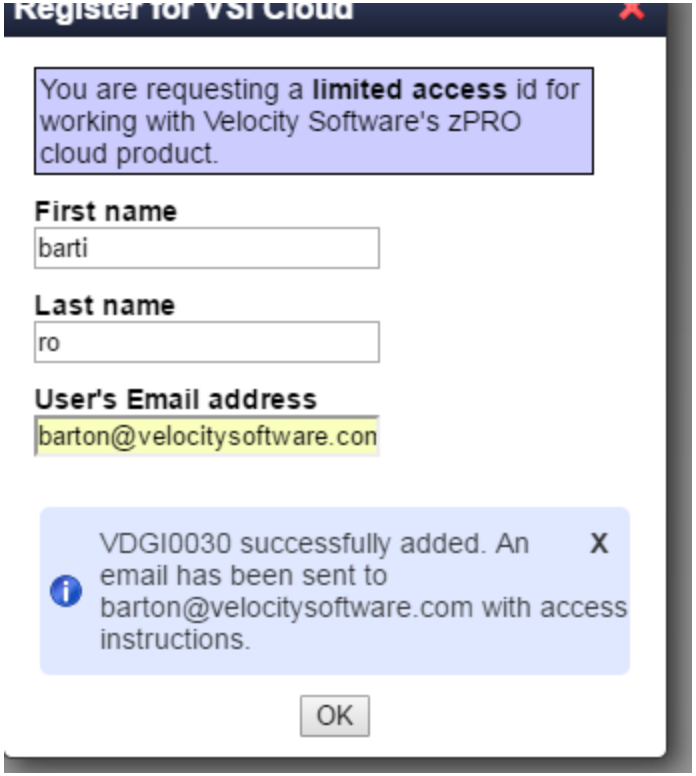
zPRO for demonstration and education

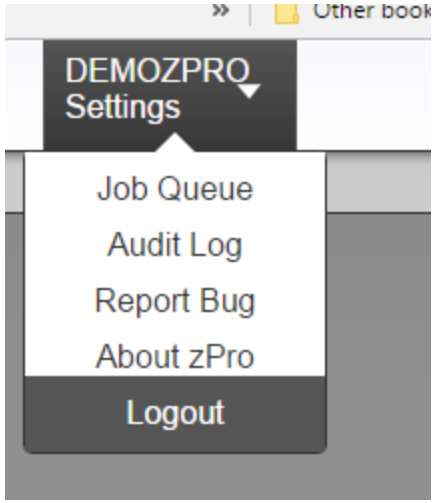
To register: "http://zPROv2.VelocitySoftware.com"

Userid is "demozpro",
Password "demodemo"



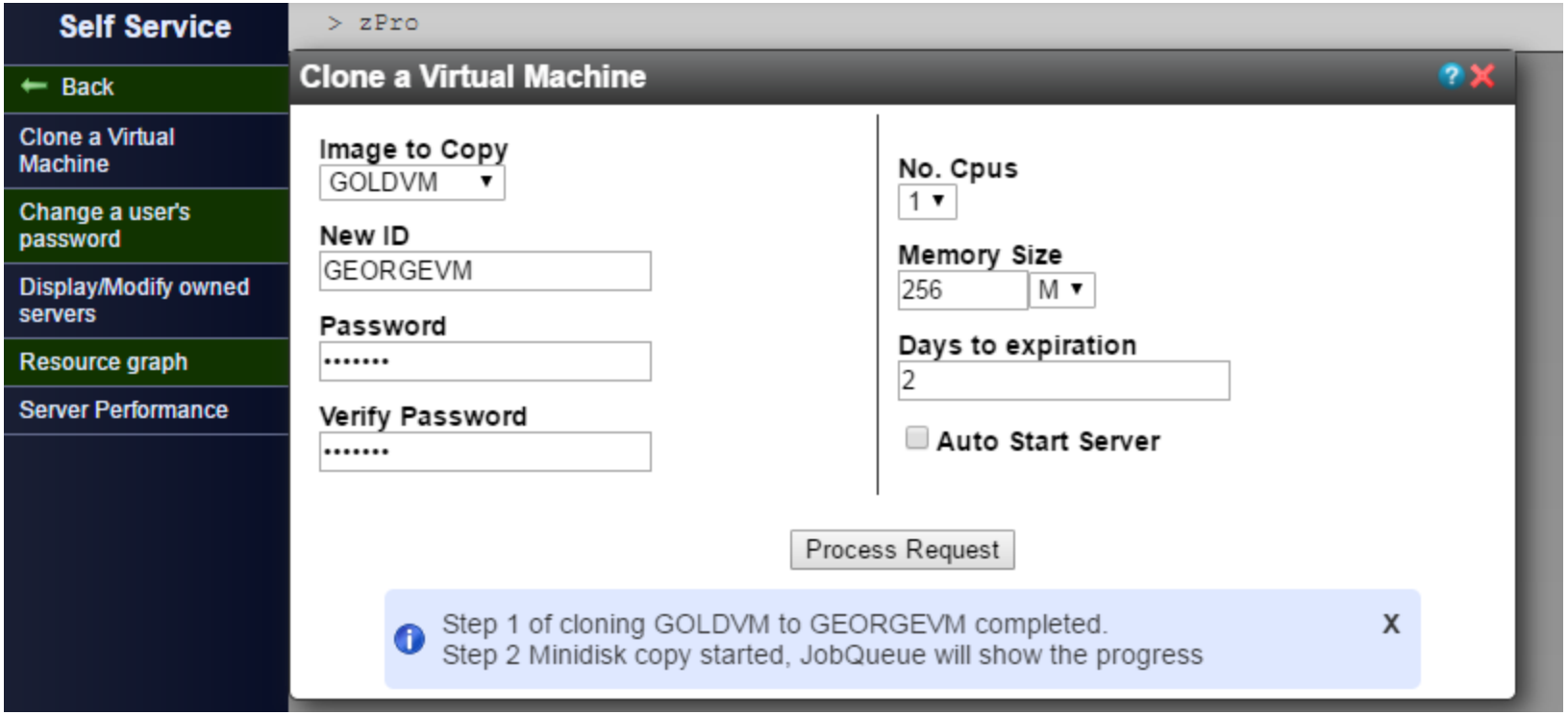
zPRO for demonstration and education
Registration information sent to email





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

User chooses vcpu, memory, expiration limits



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