

zPRO V4

High Octane, On-prem Private Cloud for Linux on Z

VM Workshop 2020

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A Challenge: The Magical Cloud

- **Executives get sold on “the cloud” being:**
 - Easier, Cheaper, Faster, Requiring fewer FTE
 - Able to run *everything* they have now in the datacenter
 - More secure (are you laughing yet?)
- **They buy into it, especially when:**
 - Anti-mainframe people/executives are pushing it
 - Hidden agendas
 - They want a short-term win on their resume

Report: Putting Head In Hands And Moaning Quietly Still Best Way To Get Through Next Several Seconds



<https://www.theonion.com/report-putting-head-in-hands-and-moaning-quietly-still-1819577866>

A Challenge: z/VM Skills Dwindling

- **IT People are Retiring / Leaving**
- **Companies usually are not ready for retirements**
 - No planning in progress for back-fill of skills
 - No job-shadowing in progress
- ***IF the company planned, there are new people to train***
 - Skills uplift can be slow
 - And overwhelming; “learn it quick – you are responsible for it all!”
 - Reluctance to send to training



Why zPRO is Right

- **What customers really want from solutions**
 - Simple and easy to understand
 - Stable, dependable, *FAST*
 - Reduce time – delegation of tasks
- **I want it *now*...**
 - zPRO installs in about 10 minutes on top of zVPS
 - Initial zVPS install is about 2 hours for all components
 - Can be customized and tailored quickly
 - Usually 2 additional hours if z/VM not already set up
 - Usable by multiple users/groups concurrently
 - Clones servers in seconds (assuming flashcopy)

zPRO is Fast & Easy?

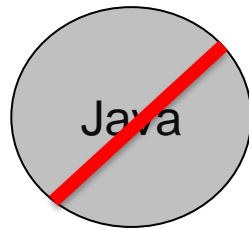
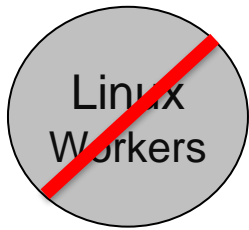
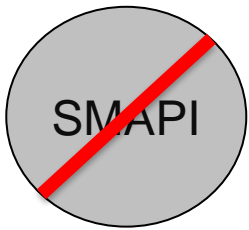
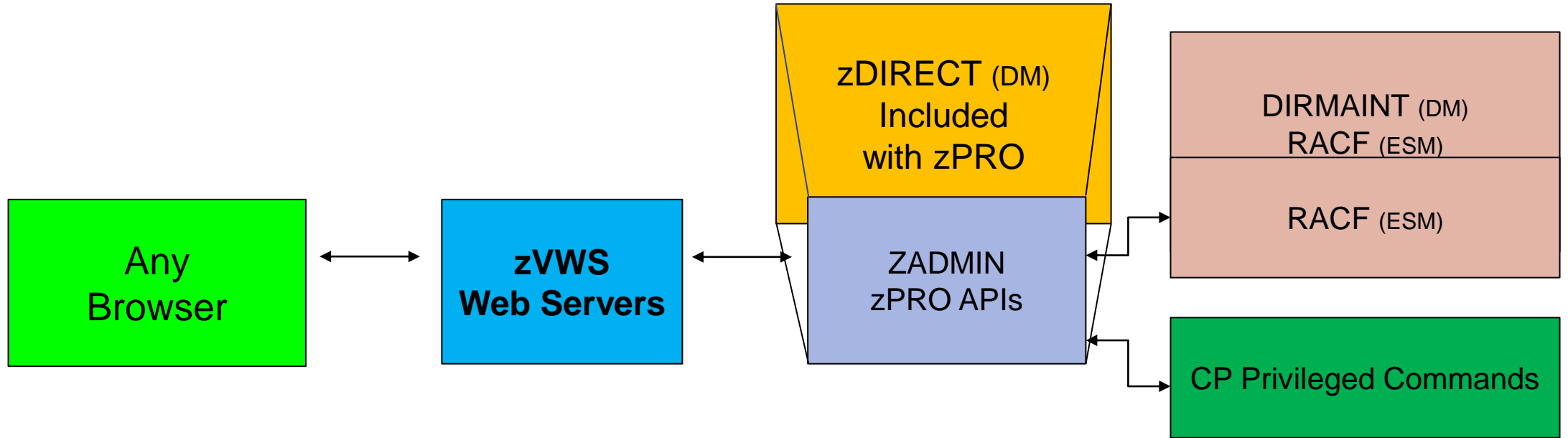
“Metal to Cloud in Two Days”

- **zPRO was a key factor in making it happen**
 - Topic presented on Tuesday of this week; many more details at (Virtual) SHARE!
- **<30 minutes – four systems – fully capable**
- **... took a break while a Linux guest was built from scratch**
- **Fired up Linux and Guest provisioning**
 - Over 155 images cloned and provisioned in <20 minutes

zPRO exploiting the Z platform

- **Utilizes the zVWS *native* z/VM web server**
 - Super fast engine – written in Assembler
 - Authentication support & Secure
 - VM / LDAP / AD / your own
 - CGIs easy to build; many customers w/Apps
- **Supports common directory/security management**
 - zDIRECT is *included* for Directory Management - with or without RACF
- **zPRO is powerful, yet SIMPLE to use**

zPRO's Structure – Simple!

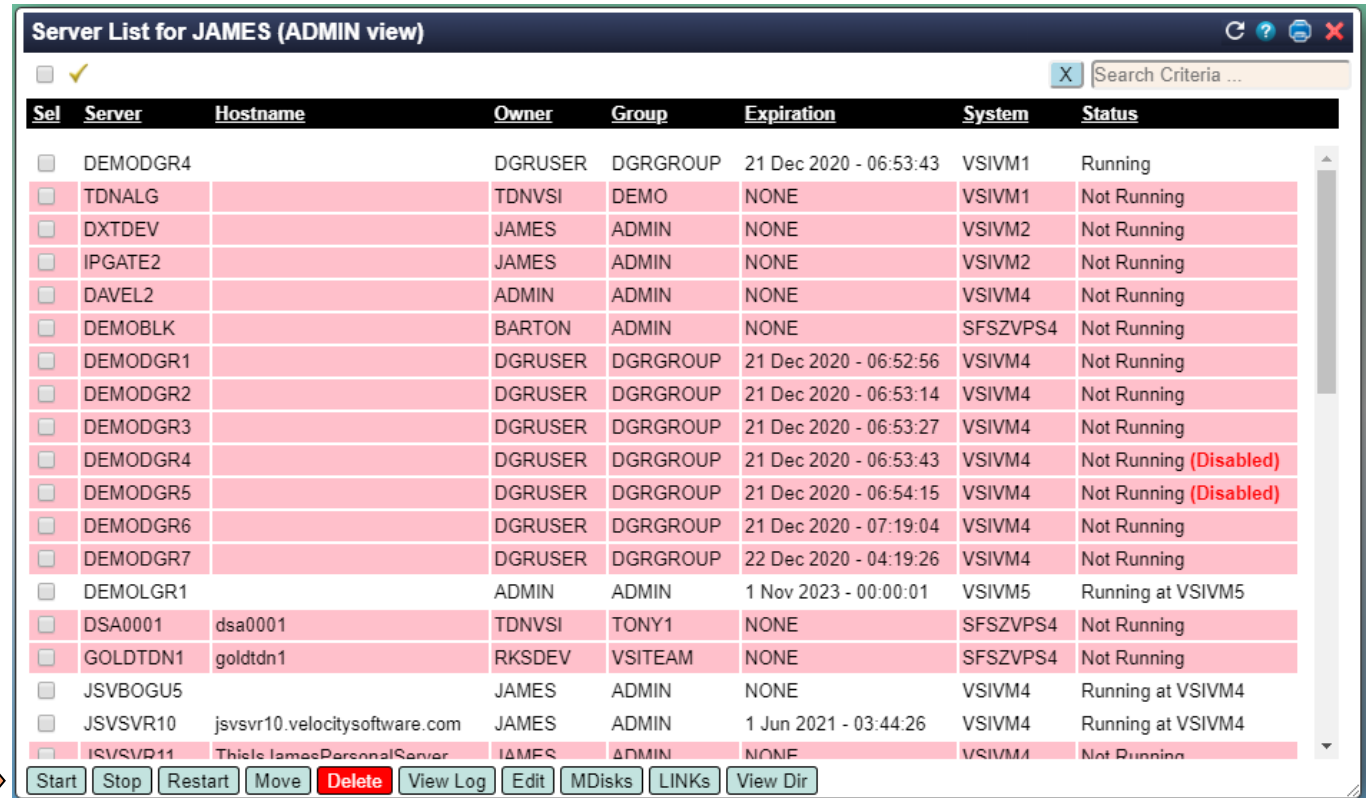


zPRO on *the* Z platform

- **zPRO is Exceptionally Extensible** (™ 😊)
 - Can define and “plug in” site-defined services quickly
 - Use any of the great tools in z/VM: CP/CMS, REXX, Pipelines, networking capabilities, memory management, communications
 - Very dynamic
 - zPRO allows you to define exits and additional APIs (in REXX), custom process-windows (called DIRMODELS) and more, to fit your specific needs
 - Quick Solutioning for managing systems (operations)
 - Velocity Support will gladly assist with anything you need

zPRO Z cloud management

- Clone (provision), modify, start, stop, move, delete servers
 - Linux w/Oracle, Websphere, etc – any z/VM guest
- Define server expirations
 - Useful for LAB, test or POC
- Selective resource controls and quota management
 - Hierarchical control from global, to group, to user to server
- SSI / LGR (live guest relocation)



Sel	Server	Hostname	Owner	Group	Expiration	System	Status
<input type="checkbox"/>	DEMODGR4		DGRUSER	DGRGROUP	21 Dec 2020 - 06:53:43	VSIVM1	Running
<input type="checkbox"/>	TDNALG		TDNCSI	DEMO	NONE	VSIVM1	Not Running
<input type="checkbox"/>	DXTDEV		JAMES	ADMIN	NONE	VSIVM2	Not Running
<input type="checkbox"/>	IPGATE2		JAMES	ADMIN	NONE	VSIVM2	Not Running
<input type="checkbox"/>	DAVEL2		ADMIN	ADMIN	NONE	VSIVM4	Not Running
<input type="checkbox"/>	DEMOBLK		BARTON	ADMIN	NONE	SFSZVPS4	Not Running
<input type="checkbox"/>	DEMODGR1		DGRUSER	DGRGROUP	21 Dec 2020 - 06:52:56	VSIVM4	Not Running
<input type="checkbox"/>	DEMODGR2		DGRUSER	DGRGROUP	21 Dec 2020 - 06:53:14	VSIVM4	Not Running
<input type="checkbox"/>	DEMODGR3		DGRUSER	DGRGROUP	21 Dec 2020 - 06:53:27	VSIVM4	Not Running
<input type="checkbox"/>	DEMODGR4		DGRUSER	DGRGROUP	21 Dec 2020 - 06:53:43	VSIVM4	Not Running (Disabled)
<input type="checkbox"/>	DEMODGR5		DGRUSER	DGRGROUP	21 Dec 2020 - 06:54:15	VSIVM4	Not Running (Disabled)
<input type="checkbox"/>	DEMODGR6		DGRUSER	DGRGROUP	21 Dec 2020 - 07:19:04	VSIVM4	Not Running
<input type="checkbox"/>	DEMODGR7		DGRUSER	DGRGROUP	22 Dec 2020 - 04:19:26	VSIVM4	Not Running
<input type="checkbox"/>	DEMOLGR1		ADMIN	ADMIN	1 Nov 2023 - 00:00:01	VSIVM5	Running at VSIVM5
<input type="checkbox"/>	DSA0001	dsa0001	TDNCSI	TONY1	NONE	SFSZVPS4	Not Running
<input type="checkbox"/>	GOLDTDN1	goldtdn1	RKSDEV	VSITEAM	NONE	SFSZVPS4	Not Running
<input type="checkbox"/>	JSVBOGU5		JAMES	ADMIN	NONE	VSIVM4	Running at VSIVM4
<input type="checkbox"/>	JSVSVR10	jsvsvr10.velocitysoftware.com	JAMES	ADMIN	1 Jun 2021 - 03:44:26	VSIVM4	Running at VSIVM4
<input type="checkbox"/>	JSVSVR11	This is James Personal Server	JAMES	ADMIN	NONE	VSIVM4	Not Running

Start Stop Restart Move Delete View Log Edit MDisks LINKs View Dir

zPRO RESTful API Interface

- **Connect from an appliance or trusted application**
 - Standard RESTful API structures (JSON)

Audit_log

Guest_add_disks

Guest_clone_disks

Guest_create

Guest_delete

Guest_delete_disks

Guest_get_console

Guest_get_info

Guest_get_power_state

Guest_list

Guest_run_state

Guest_show_definition

Host_get_info

Image_list

image_show_definition

Job_queue

Version

...more

zPRO Full Enterprise Support!



zPRO Full Enterprise Connectivity

- zPRO Version 4 connects your Enterprise Z clouds

“Single pane of glass”
All from a single
browser session

Secure inter-connections

One-click to disable/enable
remote sites

Graphical drag-drop

VELOCITY SOFTWARE zPRO Enterprise Cloud Management VSIVM4

DEMO SYS CUSTOMER DEVELOPMENT

Resource Summary Report

zPRO Users Last Active

Server List for JAMES (ADMIN view)

Sel	Server	Hostname	Owner	Group	Expiration	System	Status
<input type="checkbox"/>	DEMOLGR1		ADMIN	ADMIN	1 Nov 2023 - 00:00:01	VSIVM5	Running at VSIVM5
<input type="checkbox"/>	DSA0001	dsa0001	TDNVI	TONY1	NONE	VSIVM4	Not Running
<input type="checkbox"/>	GOLDTDN1	goldtdn1	RKSDEV	VSITEAM	NONE	VSIVM4	Not Running
<input type="checkbox"/>	JSVBOGU5		JAMES	ADMIN	NONE	VSIVM4	Running at VSIVM4
<input type="checkbox"/>	JSVSVR10	jsvsrv10.velocitysoftware.com	JAMES	ADMIN	1 Jun 2021 - 03:44:26	VSIVM4	Running at VSIVM4
<input type="checkbox"/>	JSVSVR11	ThisIsJamesPersonalServer	JAMES	ADMIN	NONE	VSIVM4	Not Running
<input type="checkbox"/>	JSVSVR12	jsvsrv12	JAMES	ADMIN	NONE	VSIVM5	Running at VSIVM5
<input type="checkbox"/>	JSVSVR13	jsvsrv13	JAMES	ADMIN	NONE	VSIVM4	Not Running
<input type="checkbox"/>	JSVSVR14	jsvsrv14.velocitysoftware.com	JAMES	ADMIN	NONE	VSIVM4	Running at VSIVM4
<input type="checkbox"/>	JSVUBU01	jsvubu01	JAMES	ADMIN	NONE	VSIVM4	Running at VSIVM4
<input type="checkbox"/>	JSV00001		JAMES	ADMIN	NONE	VSIVM4	Not Running
<input type="checkbox"/>	LXDB2001		RKSDEV	VSITEAM	NONE	VSIVM4	Not Running

Start Stop Restart Move Delete View Log Edit MDisks LINKs View Dir

zPRO Demo

This would be a good place for a Live Demo!

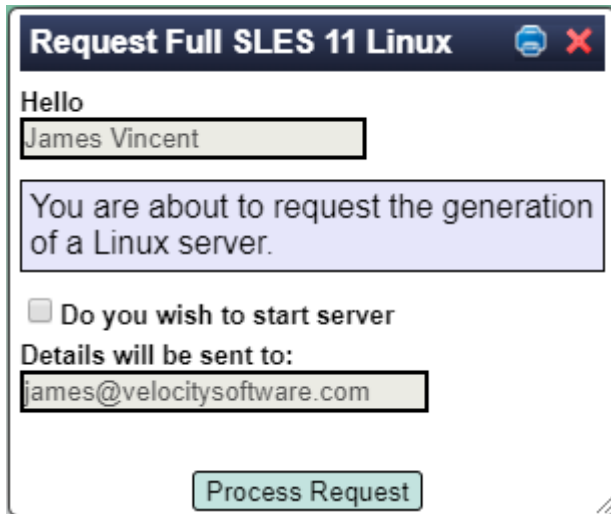
zPRO Full Enterprise Connectivity

Target the system where the action should be run

The screenshot displays the Velocity Software zPRO Enterprise Cloud Management interface. The top navigation bar includes the Velocity Software logo, the text 'zPRO Enterprise Cloud Management VSIVM4', and a user profile 'JAMES Settings'. Below the navigation bar are tabs for 'DEMOSYS', 'CUSTOMER', and 'DEVELOPMENT'. A left-hand sidebar contains a list of actions such as 'Auto Arrange', 'Refresh All', 'Close All', 'Administration', 'Create Servers', and 'Request Full SLES 11 Linux'. The main content area features a 'Clone a Virtual Machine' dialog box. This dialog box has a 'Target System' dropdown menu with an orange arrow pointing to it, containing options for 'DEMOSYS', 'CUSTOMER', and 'DEVELOPMENT'. Other fields in the dialog include 'Memory Size' (1 G), 'Days to expiration' (2), 'Password', 'Verify Password', 'Account No.' (N/A), and 'No. Cpus' (1). There are also fields for 'Email address to send notification to' and 'Your Return Email address', both containing 'james@velocitysoftware.com'. A 'Process Request' button is located at the bottom of the dialog box.

Simple Cloning/Provisioning

- **Single push-button or details**



Request Full SLES 11 Linux

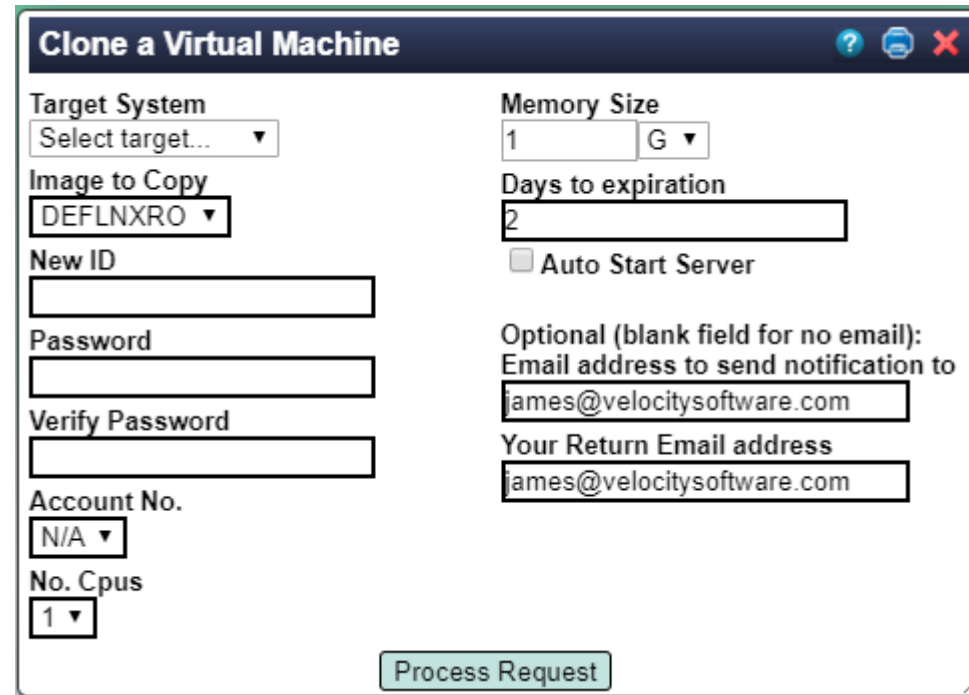
Hello
James Vincent

You are about to request the generation of a Linux server.

Do you wish to start server

Details will be sent to:
james@velocitysoftware.com

Process Request



Clone a Virtual Machine

Target System
Select target... ▼

Image to Copy
DEFLNXRO ▼

New ID
[]

Password
[]

Verify Password
[]

Account No.
N/A ▼

No. Cpus
1 ▼

Memory Size
1 G ▼

Days to expiration
2

Auto Start Server

Optional (blank field for no email):
Email address to send notification to
james@velocitysoftware.com

Your Return Email address
james@velocitysoftware.com

Process Request

- **Gold Images**
- **RH Kickstart**

Workers? No problem!

- **zPRO** uses workers for long-running tasks
 - If more needed, it *dynamically adds more* and then removes them when complete
 - Monitors the tasks and manages the workers without interaction
 - You don't have to dread real work failing and then have to react and manually change or fix things

Resource Management

- Keep track of resource usage – full control of quotas

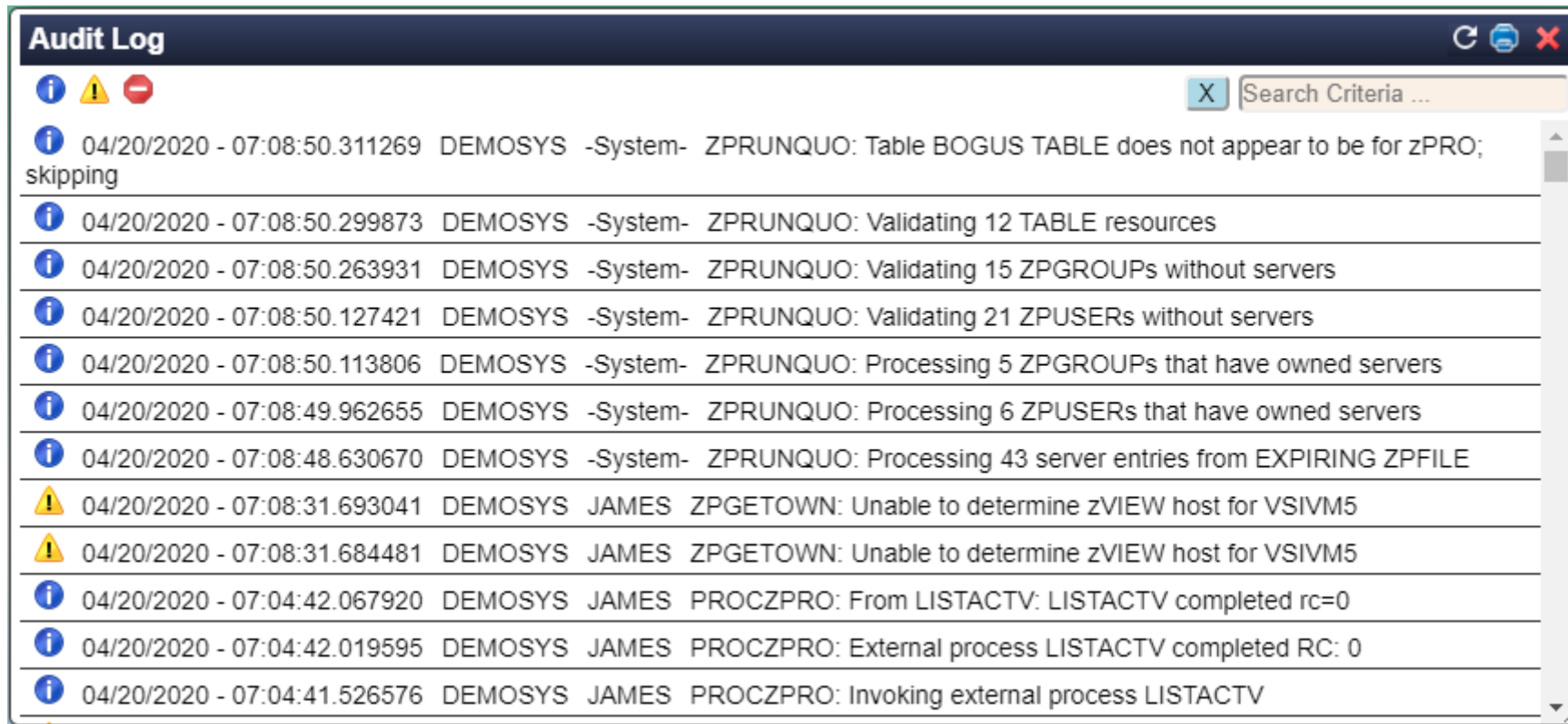
Resource Summary Report

X Search Criteria ...

System	Group	User	Servers	VCPUs	VStor(MB)	DASD	MDisks	IPs	OSAs	FCPs
CUSTOMER	DGRGROUP	totals	1	1	32	0	1	0	0	0
CUSTOMER	DGRGROUP	limits	10	120	81920	unlim	unlim	unlim	unlim	unlim
CUSTOMER	IBMGROUP	IBM	0	0	0	0	0	0	0	0
CUSTOMER	IBMGROUP	totals	0	0	0	0	0	0	0	0
CUSTOMER	IBMGROUP	limits	60	120	81920	unlim	unlim	unlim	unlim	unlim
CUSTOMER	ZPROPER	ZPROPER	0	0	0	0	0	0	0	0
CUSTOMER	ZPROPER	totals	0	0	0	0	0	0	0	0
CUSTOMER	ZPROPER	limits	0	0	0	0	0	0	0	0
CUSTOMER	ALL	totals	2	2	48	0	1	0	0	0
DEMOSYS	ADMIN	ADMIN	13	16	11888	0	33	0	6	6
DEMOSYS	ADMIN	JAMES	10	14	12288	0	21	8	0	0
DEMOSYS	ADMIN	KATHADM	0	0	0	0	0	0	0	0
DEMOSYS	ADMIN	RKSDEV	5	6	3584	0	8	5	0	0
DEMOSYS	ADMIN	totals	28	36	27760	0	62	13	6	6
DEMOSYS	ADMIN	limits	unlim	unlim	unlim	unlim	unlim	unlim	unlim	unlim

Auditing

- Full auditing of who/what was done



The screenshot shows a window titled "Audit Log" with a search bar and several log entries. The entries are as follows:

Timestamp	User	System	Description
04/20/2020 - 07:08:50.311269	DEMOSYS	-System-	ZPRUNQUO: Table BOGUS TABLE does not appear to be for zPRO; skipping
04/20/2020 - 07:08:50.299873	DEMOSYS	-System-	ZPRUNQUO: Validating 12 TABLE resources
04/20/2020 - 07:08:50.263931	DEMOSYS	-System-	ZPRUNQUO: Validating 15 ZPGROUPs without servers
04/20/2020 - 07:08:50.127421	DEMOSYS	-System-	ZPRUNQUO: Validating 21 ZPUSERS without servers
04/20/2020 - 07:08:50.113806	DEMOSYS	-System-	ZPRUNQUO: Processing 5 ZPGROUPs that have owned servers
04/20/2020 - 07:08:49.962655	DEMOSYS	-System-	ZPRUNQUO: Processing 6 ZPUSERS that have owned servers
04/20/2020 - 07:08:48.630670	DEMOSYS	-System-	ZPRUNQUO: Processing 43 server entries from EXPIRING ZPFILE
04/20/2020 - 07:08:31.693041	DEMOSYS	JAMES	ZPGETOWN: Unable to determine zVIEW host for VSIVM5
04/20/2020 - 07:08:31.684481	DEMOSYS	JAMES	ZPGETOWN: Unable to determine zVIEW host for VSIVM5
04/20/2020 - 07:04:42.067920	DEMOSYS	JAMES	PROCZPRO: From LISTACTV: LISTACTV completed rc=0
04/20/2020 - 07:04:42.019595	DEMOSYS	JAMES	PROCZPRO: External process LISTACTV completed RC: 0
04/20/2020 - 07:04:41.526576	DEMOSYS	JAMES	PROCZPRO: Invoking external process LISTACTV

Empowerment through access

- **zPRO makes managing Linux on z *very easy***
 - Systems programmers, end-users, Operations, management – really anyone
- **Give access to any groups/users you need to**
 - Unix/Linux admins, Application groups, Operations and more
 - No special z/VM authority required for groups/users
 - Defined resource boundaries for groups and users
 - Each group and user can use the same or specific resource pools / limits
 - Can clone and manage their own servers how and whenever they need
 - You/management define what they can and can't do or use (Functional Decentralization)

Integration with zVPS suite

- Performance – high level or deep dive

Server Performance

Server	Hostname	Type	System	Status	CPU%	IO/sec	Pg/sec	Swap Use	Swap/sec	FS>90
JSVSVR14	jsvsvr14.velocitysoftware.com		VSIVM4	Running	0.10	0.7	0	0.00%	0.00	
JSVUBU01	jsvubu01		VSIVM4	Running	0.06	0.7	0			
JSV00001			VSIVM4	Down						
LXDB2001			VSIVM4	Down						
LXORA12			VSIVM5	Down						
MONGO01	mongo01.velocitysoftware.com		VSIVM4	Running	0.87	1.6	0			
NETWATCH			VSIVM4	Running	0.04	6.4	0			
ORACLE			VSIVM4	Running	0.09	0.8	0			
REDHAT7	redhat7.velocitysoftware.com		VSIVM4	Running	0.09	0	0			
RHKS NFS1	rhksnfs1.velocitysoftware.com		VSIVM4	Running	0.11	0.7	0			
RKSR7401			VSIVM4	Down						
RKSUBU01	rksubu01		VSIVM4	Running	0.06	0.7	0			
RK SVM01			VSIVM4	Down						
RVDHWEB			VSIVM4	Down						
RVDWEB03			VSIVM4	Down						

zVIEW - Velocity Software - VSIVM4 (DEMO)
Performance Displays for z/VM, Linux, z/OS and z/VSE

ESALNXP - Linux Process Configuration - DEMO

Node	Process Name	ID	PPID	Group	Appl Name	<-User	
JSVSVR14	system	1	1	1	systemd	root	
JSVSVR14	ktread	2	1	0	1	kernel	
JSVSVR14	ksortfsd/0	3	2	0	1	kernel	
JSVSVR14	kworke/0:0H	5	2	0	1	kernel	
JSVSVR14	migration/0	7	2	0	1	kernel	
JSVSVR14	rcu_gh	8	2	0	1	kernel	
JSVSVR14	rcu_sched	9	2	0	1	kernel	
JSVSVR14	kdevtmpfs	10	2	0	1	kernel	
JSVSVR14	netns	11	2	0	1	kernel	
JSVSVR14	khungtaskd	12	2	0	1	kernel	
JSVSVR14	writeback	13	2	0	1	kernel	
JSVSVR14	kintegrityd	14	2	0	1	kernel	
JSVSVR14	bioset	15	2	0	1	kernel	
JSVSVR14	kblockd	16	2	0	1	kernel	
JSVSVR14	md	17	2	0	1	kernel	
JSVSVR14	cio	18	2	0	1	kernel	
JSVSVR14	cio_chp	19	2	0	1	kernel	
JSVSVR14	kworke/u128:1	20	2	0	1	kernel	
JSVSVR14	kworke/0:1	21	2	0	1	kernel	
JSVSVR14	appliance	25	2	0	1	kernel	
JSVSVR14	ksvgsd	26	2	0	1	kernel	
JSVSVR14	ksmd	27	2	0	1	kernel	
JSVSVR14	crypto	28	2	0	1	kernel	
JSVSVR14	ktbraid	35	2	0	1	kernel	
JSVSVR14	khvcd	36	2	0	1	kernel	
JSVSVR14	kmpath_rdcd	37	2	0	1	kernel	
JSVSVR14	kechekc	38	2	0	1	kernel	
JSVSVR14	ispv_addrconf	39	2	0	1	kernel	
JSVSVR14	deferwq	48	2	0	1	kernel	
JSVSVR14	ksuidtd	75	2	0	1	kernel	
JSVSVR14	geth_wq	313	2	0	1	kernel	
JSVSVR14	kworke/u128:3	330	2	0	1	kernel	
JSVSVR14	jbd2/dsdd1-0	398	2	0	1	kernel	
JSVSVR14	ext4-rsv-conver	399	2	0	1	kernel	
JSVSVR14	kworke/0:1H	3415	2	0	1	kernel	
JSVSVR14	kworke/0:0	7135	2	0	1	kernel	
JSVSVR14	kworke/0:2	10035	0	1	kernel	root	
JSVSVR14	systemd-journald	463	1	463	833	systemd-root	
JSVSVR14	systemd-udev	504	1	504	833	systemd-root	
JSVSVR14	auditd	567	1	567	auditd	root	
JSVSVR14	dbus-daemon	631	1	631	631	dbus-dae	dbus
JSVSVR14	chronyd	643	1	643	643	chronyd	chron
JSVSVR14	rsyslogd	648	1	648	648	rsyslogd	root
JSVSVR14	polkitd	651	1	651	651	polkitd	polkit
JSVSVR14	system-logind	653	1	653	833	systemd-root	
JSVSVR14	crond	656	1	656	656	crond	root
JSVSVR14	agetty	665	1	665	666	agetty	root
JSVSVR14	agetty	666	1	666	666	agetty	root
JSVSVR14	agetty	667	1	667	667	agetty	root
JSVSVR14	NetworkManager	621	1	621	621	NetworkM	root
JSVSVR14	sshd	1036	1	1036	1036	sshd	root

ESALNXP - VSI Linux Percent Usage by Process - DEMO

Time	Node	Name	ID	PPID	GRP	Tot sys	user	syst	usr	valu	valu	Stk	EXEC	Lib	Lck	Ptd	min	maj	mnt	Read	write	User			
00:05:00	JSVSVR14	"Totals"	0	0	0	0.1	0.1	0.0	0	0	0	2329	73.6	2654	0	1270	2.8	7.9	116	0	0	4580	0		
00:05:00	JSVSVR14	systemd	1	1	0	0.0	0.0	0.0	0	0	0	20	86.4	3.7	150	0	81.0	0.1	1.4	3.5	0	0	10	0	
00:05:00	JSVSVR14	smhd	1041	1	1041	0.1	0.0	0.0	0	-10	10	125	12.3	139	0	5.5	0.1	0.0	17.7	0	0	1	0	4498	0

ESAHST2 - LINUX HOST Storage Analysis Report - DEMO

Time	Node/Group	Index	Size	Used	Full	Err	Units	R/W	Boot	Description
00:05:00	JSVSVR14	39	118	0	0	0	4K	r/w	No	/sys/fs/cgroup
00:05:00	JSVSVR14	38	118	4	3.5	0	4K	r/w	No	/run
00:05:00	JSVSVR14	36	118	0	0	0	4K	r/w	No	/dev/shm
00:05:00	JSVSVR14	31	2246	1000	44.9	0	4K	r/w	Yes	/
00:05:00	JSVSVR14	10	372	0	0	0	1K			Swap space

ESAUCD2 - LINUX UCD Memory Analysis Report - DEMO

Time	Node/Group	Real Storage (MB)	Swap Storage (MB)	Total	Storage in Use (MB)	Error								
00:05:00	JSVSVR14	236.9	48.6	187.3	371.9	371.9	0	15.6	421.5	0.0	15.0	107.8	64.5	0.0

ESAUCD4 - LINUX UCD System Statistics Report - DEMO

Time	Node/Group	Processor Pct	Util	Idle	Swaps	Disk IO	Switch	Intprt	Load	Averages	CPU	Overhead	I/O	Pro				
00:05:00	JSVSVR14	0.1	0.1	0.0	0	99.9	0	0	0	18.5	13.4	0.05	0.05	0.05	0	0.02	0	1.16

ESAHST4 - LINUX HOST System Statistics Report - DEMO

Time	Server	Num	Processes	Stgs	Local	System	System Initialization			
00:05:00	JSVSVR14	0	54	0	236.0	2020/4/20	08:05	60	0000	root/dev/disk/by-path/ccw-0.0.0200-part



Help with Skills and Time

- **Little or no z/VM system knowledge needed**
 - Fills in for any lack of z/VM skills
 - Do *YOU* need to be concerned about that? Who's retiring next?!
 - Helps to ramp-up support while learning about the platform
- **Reduces time in dealing with cloud management**
 - z/VM Systems Programmer time is freed up
 - Reduce or eliminate the off-hours support calls
 - Focus more on the bigger projects
 - Self-service models allow others to provision and manage with defined controls/authorities

Customer case stories

- “After the second week of {bleeping} around with {product} and still not getting it to work, we gave up. I had zPRO [running] on four systems before lunch.”
 - <customer> spent 4 *months* getting {product} working to then clone a server in 2 hours!!
- We (seriously experienced VM people) tried OpenStack, CMA, XCAT with absolutely NO success
- “I had a bunch of REXX scripts I used for DNS and hypersocket assignments. zPRO let me plug them in and continue using them without any changes”
- I had a real need to focus on bigger projects, not trivial stuff like building new servers, or restarting them
- Offsite Linux support people calling at ‘stupid hours of the night’ – no more!
- Linux admin team waiting for new servers from one z/VM guy

zPRO – try it yourself!

- 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



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

Summary

- **zPRO is Simple, Fast and Powerful to manage your z/VM on-prem cloud**
- **Real customers agree:**
 - ***“zPRO has spoiled me”*** from a Linux Admin that was given access to build and manage application/DB servers himself
 - ***“zPRO lets me focus on bigger, time-consuming projects”***
 - ***“After I gave zPRO access to our off-shore support teams, I have not had 2AM phone calls asking for help since”***
 - ***“We are using zPRO to make a case for [solutions] that require data to be stored more securely instead of [in] the AWS cloud.”***

Questions / Comments?



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zPRO Demo Site:

zPRO Virtual Demo PDF:

zPRO info:

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

<https://velocitysoftware.com/zprodemo.pdf>

<https://velocitysoftware.com/zpro.html>

