PERFORMANCE NEWS

Issue 8 – February 2021

2020 – A REVIEW

BY BARTON ROBINSON

Everyone will have their own perspectives about the previous year and I hope you are all healthy and well. For us at Velocity Software, 2020 ended up being a very productive year. Moving our datacenter from California to Ohio, purchasing a brand new z15 T02, and then showing off the IBM Z technology by implementing a full blown z/VM SSI complex, creating a cloud environment, and then cloning 155 Linux servers in 20 minutes - and we did this in 2 days (see page 3/4). Truth in advertising, we did not use any of the IBM software other than z/VM and RACF. Implementing zPRO with its zDIRECT component as the directory management facility, the solution proved to be simple, elegant and very straightforward to install. And we have several new customers that are ecstatic about a simple, elegant solution that just works!

With less travel, we've had more time to expand our products in areas we believe z/VM installations have real needs. zPRO now has support for RACF management in addition to the existing RACF support normally used for managing the security of a z/VM implementation. Spool management was added, and there is now a scheduler component that is already successfully competing against IBM's Operations Manager and VM:Schedule for most functions.

What is the major drawback today for z/VM? The ancient 3270 interface that nobody coming out of school today (or even most of your users) considers acceptable. Our mission is to zPRO (as a verb) the platform and make it attractive to your users. And provide modern interfaces to manage the platform as well.

zVPS was not left out of our efforts. The z/VM support of course was enhanced, but so was the z/VSE support and the z/OS support. We keep ramping up our CICS workloads to see how much we can handle, and at 100 transactions per second, we don't even see a blip in the data processing requirements. zTUNE has also been enhanced, and will soon support z/OS performance - if you have a performance problem, and if we know what to look for, we'll put that into the rules and give you the report of what was measured and what the corrective options are as we do for z/VM and Linux today.

We are redefining zVIEW, our graphical interface to performance data. It really has become the "z" View, your "View" on your "z" . Presenting z/OS, z/VM, Linux, CICS, z/VSE all on one easily user defined view definitely makes it the z View.

SINCE 1988
VELOCITY SOFTWARE

MAINFRAME TO CLOUD IN TWO DAYS!

Enabling and managing a private Linux Cloud on a z15 T02 and z/VM

For the first time in our company's history we participated in IBM's ESP program for the new Z15 T02. And let me tell you these last couple of months have been a pretty cool journey and experience.

From the time that we decided to pursue this idea, I gave my team a very clear project: I want us to go from "Metal to Cloud in two days" – and our team took on the challenge.

Don't get me wrong, our Cloud on Z is very real and we have been running some of our core corporate projects on it and have helped many customers worldwide implement their Cloud on Z using zPRO, our Cloud Enablement and Management tool.

Building the new environment from zero to full Cloud in two days was a different story, but I know our technology. If this new machine was anything like I had expected, I was sure that it was possible.

We made that happen: our team managed to install z/VM 7.1 in a 4-way SSI cluster with TCPIP, RACF and our Velocity Software cloud enablement and management software suite zVPS and zPRO in only two days and cloned a total of 155 servers in less than 20 minutes. And just to show the speed of the z15 and the DS8910F disk subsystem, we cloned 50 2GB Linux servers in only three minutes!

With this we've proven that Cloud on Z is real, resilient, secure, easy and extremely fast with the new z15 T02, DS8910F disk subsystem, and Linux on z/VM.

So before you trust someone else to run your corporate and core business on their cloud, leverage this great platform! We at Velocity Software now have all the experience we need to show you how to run your private Cloud on Z.

We want to thank our business partner Vicom Infinity and the IBM ESP team, who have been guiding and supporting us in the past three months to make things happen.

Barton Robinson
CEO, Velocity Software

zPRO VERSION 5 RELEASED IN 2020!

BY JAMES VINCENT

zPRO, Velocity Software's premier Linux on Z cloud management solution has had plenty of new and exciting features added this year. Although zPRO's main purpose is to make provisioning and management of your Linux on Z server farm simple and fast, it is also for helping to manage your z/VM system too! Some additions with Version 5 include:

VM Security

zPRO will help you find, report and manage security rules within your External Security Manager (ESM). When you need to validate or audit security rules, zPRO will help you do that quickly and easily. As a bonus for sites that use RACF on their z/VM system, zPRO has an "Orphaned Userids" report that will show you any rules that are in the RACF database that are orphaned after the userid was deleted. RACF does not remove all the security rules for a userid when it is deleted and finding them with RACF reports is not trivial. This new zPRO report will allow you to keep your RACF database content cleaned up fast and painlessly!

VM Spool

Your z/VM spool subsystem health is important to your system running smoothly. Spool is used for console logs, sending data from a user/system to another and in some cases, even for simple file backup storage! If not managed, your spool usage can grow and fill up, which is not a Good Thing. zPRO now includes tools to help you review your spool usage by reporting on key resource usage categories, such as users with the most spool files, the largest open spool files (console logs), top spool files by size and more. It also shows the overall system spool space usage and even any dump files that may be on your system. You can find and report on specific categories of spool files or search using your own criteria. We also include a report to show spool files that are unowned.

Continued on next page…

These are spool files that didn't get transferred to another user or purged before the owner was deleted from the system. These spool files often linger on systems and just take up space. zPRO lets you find, review and clean them up with just a few clicks of your mouse!

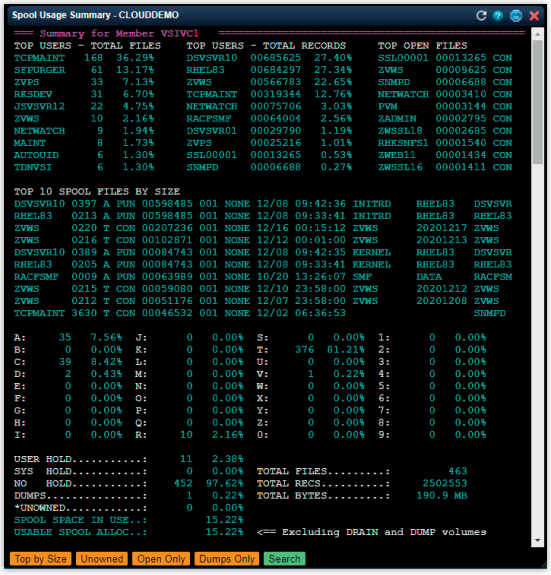
Configuration Management (CMDB)

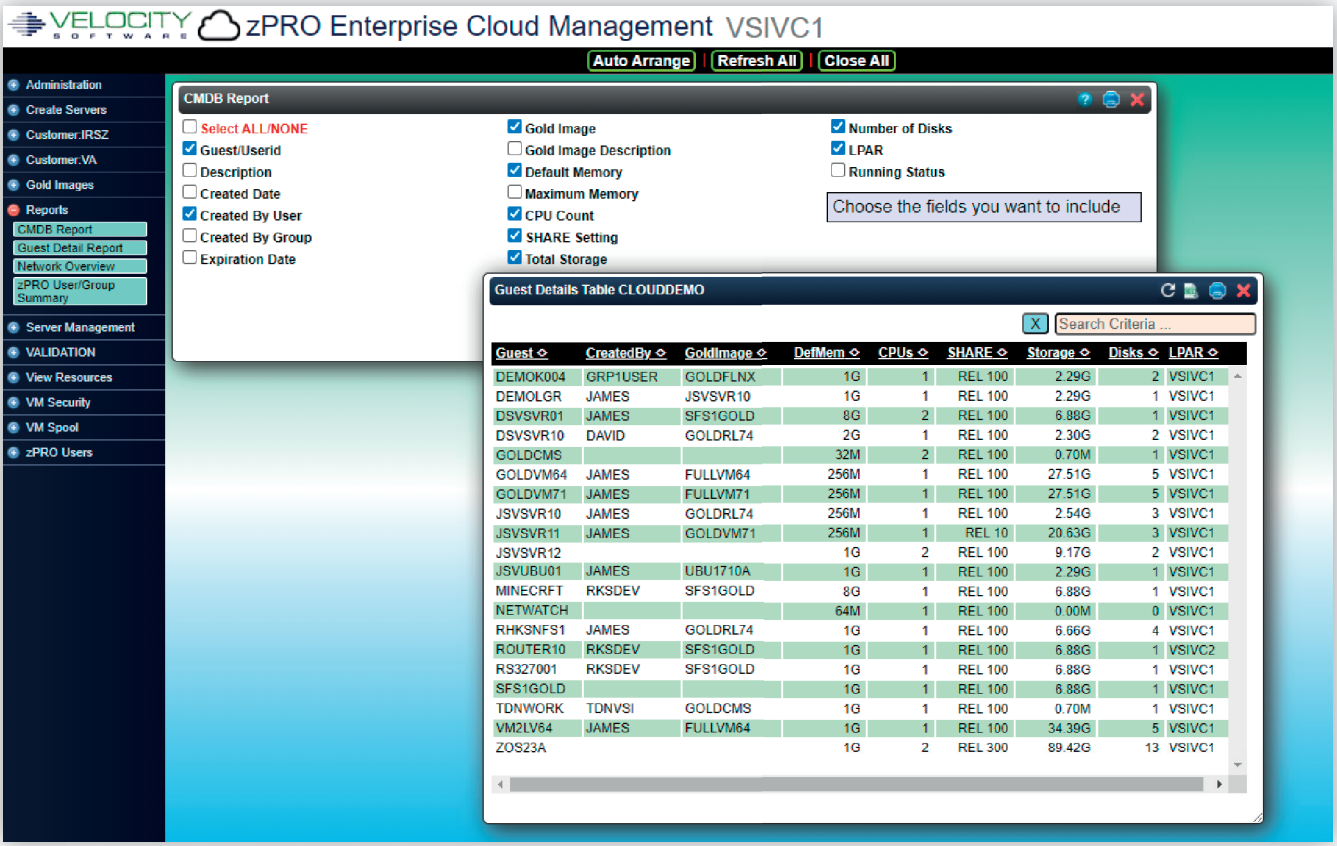
Keeping track of your servers, what resources are in use by them and even what each server's purpose is are just a few of the key reporting items people often need. zPRO helps in this regard by providing description management and a flexible reporting feature that allows you to select what details you require and building a report for all your servers. This report can be exported as a CSV file or printing it to a PDF. This flexibility built into zPRO will help as reporting requirements change based on who needs the data and what it will be used for.

These are just a few highlights of what zPRO has to offer!

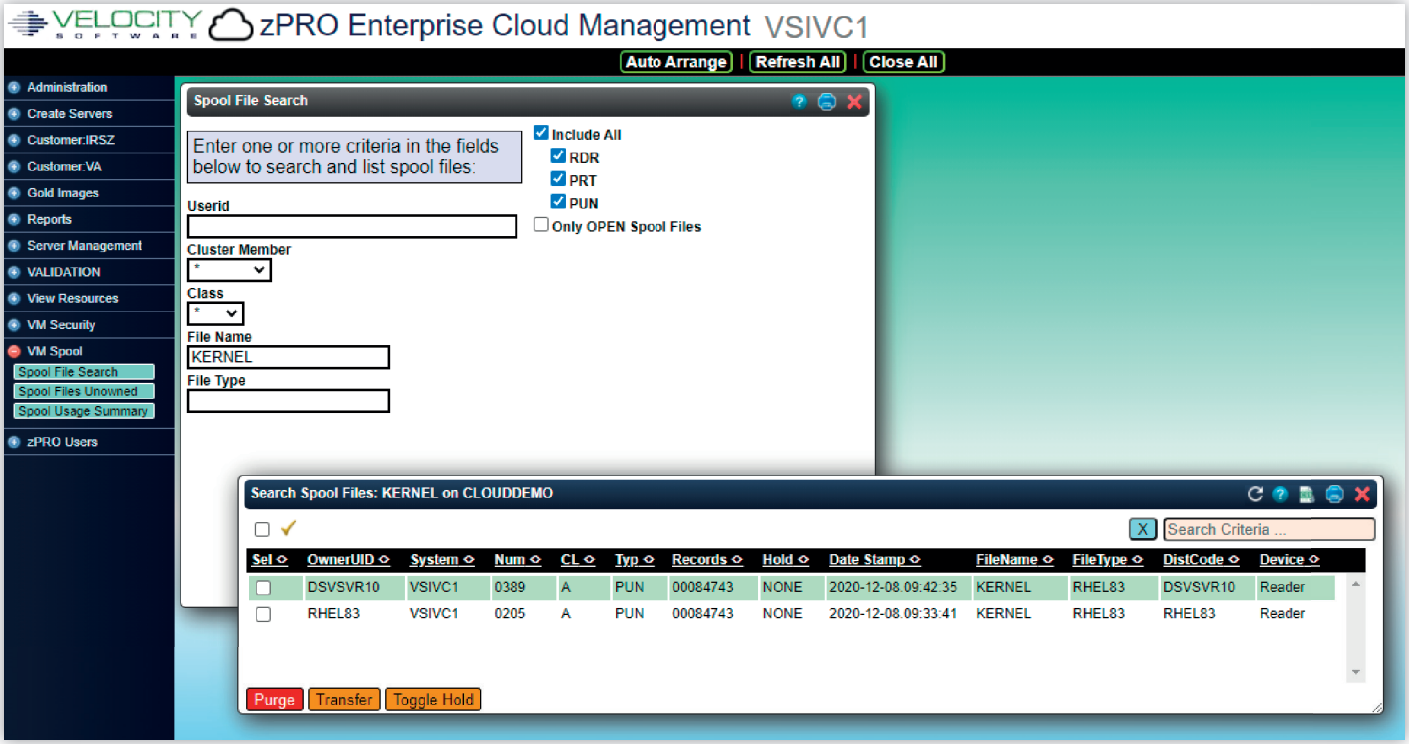
James

James is a Sr. Systems Engineer and primary developer for the zPRO product. He has been a member of the Velocity Software team since mid-2017 and has over 35 years of experience in z/VM technologies.





Guest	CreatedBy	GoldImage	DefMem	CPUs	SHARE	Storage	Disks	LPAR
DEMOK004	GRP1USER	GOLDFLNX	1G	1	REL 100	2.29G	2	VSIVC1
DEMOLGR	JAMES	JSVSVR10	1G	1	REL 100	2.29G	1	VSIVC1
DSVSVR01	JAMES	SFS1GOLD	8G	2	REL 100	6.88G	1	VSIVC1
DSVSVR10	DAVID	GOLDRL74	2G	1	REL 100	2.30G	2	VSIVC1
GOLDCMS			32M	2	REL 100	0.70M	1	VSIVC1
GOLDVM64	JAMES	FULLVM64	256M	1	REL 100	27.51G	5	VSIVC1
GOLDVM71	JAMES	FULLVM71	256M	1	REL 100	27.51G	5	VSIVC1
JSVSVR10	JAMES	GOLDRL74	256M	1	REL 100	2.54G	3	VSIVC1
JSVSVR11	JAMES	GOLDVM71	256M	1	REL 10	20.63G	3	VSIVC1
JSVSVR12			1G	2	REL 100	9.17G	2	VSIVC1
JSVUBU01	JAMES	UBU1710A	1G	1	REL 100	2.29G	1	VSIVC1
MINECRFT	RKSDEV	SFS1GOLD	8G	1	REL 100	6.88G	1	VSIVC1
NETWATCH			64M	1	REL 100	0.00M	0	VSIVC1
RHKSNFS1	JAMES	GOLDRL74	1G	1	REL 100	6.66G	4	VSIVC1
ROUTER10	RKSDEV	SFS1GOLD	1G	1	REL 100	6.88G	1	VSIVC2
RS327001	RKSDEV	SFS1GOLD	1G	1	REL 100	6.88G	1	VSIVC1
SFS1GOLD			1G	1	REL 100	6.88G	1	VSIVC1
TDNWORK	TDNVSI	GOLDCMS	1G	1	REL 100	0.70M	1	VSIVC1
VM2LV64	JAMES	FULLVM64	1G	1	REL 100	34.39G	5	VSIVC1
ZOS23A			1G	2	REL 300	89.42G	13	VSIVC1


VELOCITY SOFTWARE
zPRO Enterprise Cloud Management VSIVC1
Auto Arrange | Refresh All | Close All
Administration
Create Servers
Customer:IRSZ
Customer:VA
Gold Images
Reports
Server Management
VALIDATION
View Resources
VM Security
VM Spool
Spool File Search
Spool Files Unowned
Spool Usage Summary
zPRO Users
Spool File Search
Enter one or more criteria in the fields below to search and list spool files:
Include All
RDR
PRT
PUN
Only OPEN Spool Files
Userid
Cluster Member
Class
File Name
KERNEL
File Type
Search Spool Files: KERNEL on CLOUDDEMO
Search Criteria ...
Sel | OwnerUID | System | Num | CL | Typ | Records | Hold | Date Stamp | FileName | FileType | DistCode | Device
DSVSVR10 | VSIVC1 | 0389 | A | PUN | 00084743 | NONE | 2020-12-08.09:42:35 | KERNEL | RHEL83 | DSVSVR10 | Reader
RHEL83 | VSIVC1 | 0205 | A | PUN | 00084743 | NONE | 2020-12-08.09:33:41 | KERNEL | RHEL83 | RHEL83 | Reader
Purge
Transfer
Toggle Hold

VELOCITY SOFTWARE
zPRO Enterprise Cloud Management VSIVC1
Auto Arrange | Refresh All | Close All
Administration
Create Servers
Customer:IRSZ
Customer:VA
Gold Images
Reports
Server Management
VALIDATION
View Resources
VM Security
Orphaned Userids
Rule Search
VM Spool
zPRO Users
Orphaned Userids
Search Criteria ...
Sel | Userid | Rule Count | System
DEMOKCMS | 3 | VSIVC1
DEMOK002 | 1 | VSIVC1
DEMOLGR1 | 2 | VSIVC1
FULLVM64 | 13 | VSIVC1
FULLVM71 | 15 | VSIVC1
GOLDR1 | 2 | VSIVC1
JSV1234 | 2 | VSIVC1
JSV12354 | 4 | VSIVC1
LSYIV001 | 3 | VSIVC1
Delete
Show Rules
Rule Report for ZVPS on VSIVC1
Search Criteria ...
Sel | Class | Resource | User | Access | Description
USER | ZVPS | | | User entry in Security Manager
GROUP | SYS1 | ZVPS | | DEFAULT Security Group the user is part of
VMMDISK | ZADMIN.391 | ZVPS | CONTROL | User has read and write, not MW
VMMDISK | ZALERT.191 | ZVPS | ALTER | User has any mode access
VMMDISK | ZMAP.191 | ZVPS | ALTER | User has any mode access
VMMDISK | ZMAP.192 | ZVPS | ALTER | User has any mode access
VMMDISK | ZMAP.194 | ZVPS | ALTER | User has any mode access
VMMDISK | ZTCP.191 | ZVPS | ALTER | User has any mode access
VMMDISK | ZTCP.195 | ZVPS | ALTER | User has any mode access
VMMDISK | ZVPS.191 | * | NONE | Universal - no access
VMMDISK | ZVPS.191 | ZVPS | ALTER | User has any mode access
VMMDISK | ZVPS.192 | * | NONE | Universal - no access
VMMDISK | ZVPS.192 | ZVPS | ALTER | User has any mode access
VMMDISK | ZVPS.193 | * | NONE | Universal - no access
VMMDISK | ZVPS.193 | ZVPS | ALTER | User has any mode access
VMMDISK | ZVPS.300 | * | NONE | Universal - no access
VMMDISK | ZVPS.300 | ZVPS | ALTER | User has any mode access
Delete Selected
Rule Search
Enter a userid to search for to show all security rules
Userid
zvps
OK

zPRO'S BUILT-IN SCHEDULER!

BY RICH SMRCINA

The zPRO product has had a need to schedule internal events since its inception. A number of customers have requested a scheduling mechanism along with our other offerings. Velocity Software is pleased to announce that we now have an event scheduler.

It is included as part of zPRO. Along with other new zPRO functions (see the article by James Vincent in this issue), the zPRO Scheduler is part of zPRO 5110. It does require updates to zVWS (the Web Server), so it will need to be updated as well.

The zPRO Scheduler is managed completely via a web based user interface. No 3270 is required.

The web interface allows the user to display the currently scheduled events, create a new event, and delete one or more events.

Figure 1 shows the zPRO menu of available Scheduler functions. Click 'Manage Scheduled Events' to see the current list of events.

Figure 2 shows the current list of events. The list that is generated will show the events owned by the logged on user. If the user is also a zPRO administrator, that user will see all of the events.

The list shows the owner of the event, event name, the system name (in an SSI cluster this will be the cluster name), scheduled date(s), time, the date and time of the last event was last run, the stop time, the interval time for recurring events, the command that is executed, the system ID on which the event will run, and whether the event is currently active.

Under the event name is the description of the event that can be entered when the event is created.

Events owned by SYSTEM are zPRO internal events and can not be deleted.

On the bottom of the list are actions that can be taken. There are currently two actions avaialble, Add and Delete.

From the event list, clicking on the 'Add' button will produce the schedadd dialog. This dialog allows the user to enter information for a new event.

Figure 3:

The Event Name is the name of the event. The Run Date can be a specific date or multiple dates on which the event will be run. The date can also be specific days (MON, TUE, etc) on which to run the event, along with keywords DAILY, WEEKDAYS, WEEKENDS. The days can either be entered in the Run Date field, or use the check boxes to select one or more days. A date can also be one or more date patterns that can represent a specific day (or days) of the month on which to run an event.

Start Time is the time at which to schedule the event, or to start scheduling the event in the case of a recurring event.

End Time is the time at which to stop running the event. This is useful for events that occur multiple times a day, but need to stop running at a certain time.

Occurs Every indicates an event that runs multiple times a day.

All time fields are expressed in 24 hour time and represent the local LPAR time.

The Command field is the command that is executed at

the scheduled event time. It can be a CP command, a CMS command, an EXEC, or a subset of zPRO specific functions.

Using the zPRO functions provides the ability to schedule starting, stopping, or relocating servers at certain times.

The Description field allows for the entry of a comment to be associated with the event.

When the required information is entered, press 'Process Request'. The event list will be updated automatically with the new event. If the event is scheduled for any time on the current day, the 'Active' column will indicate that the event is active.

To delete an event, select it from the event list and click the Delete button. A confirmation dialog will appear that requires the user to click 'Ok' to delete the event.

Rich

Rich has been with Velocity Software for over 11 years. He provides customer support and training, and maintains zALERT and zPORTAL. Rich also works on our new product zOSMON and our z/VSE monitor.

Figure 1

Figure 3

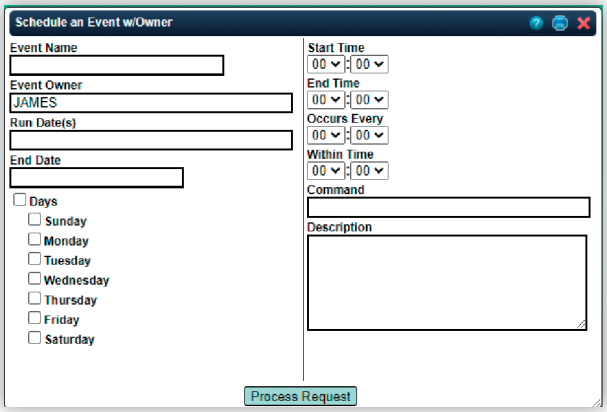
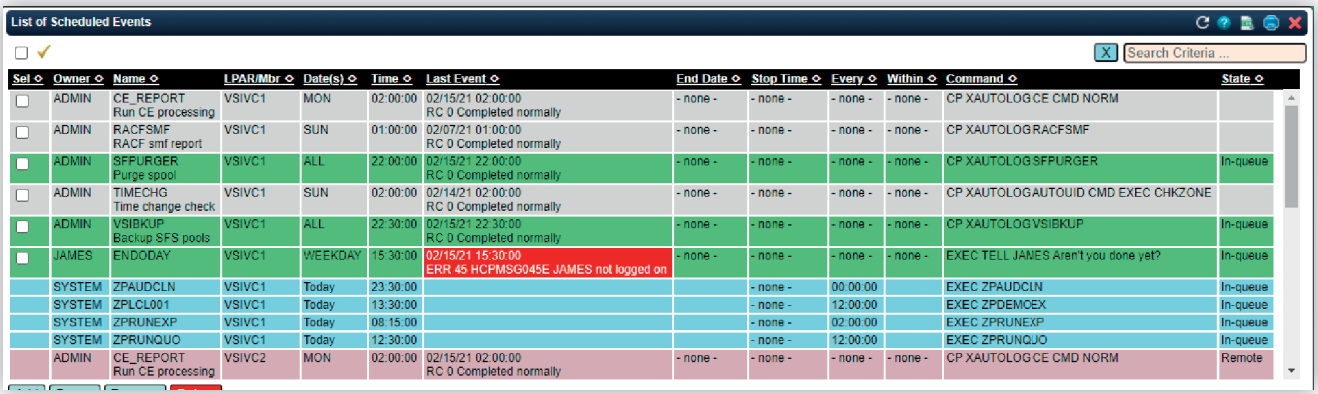


Figure 2



Sel	Owner	Name	LPAR/Mbr	Date(s)	Time	Last Event	End Date	Stop Time	Every	Within	Command	State
	ADMIN	CE_REPORT Run CE processing	VSIVC1	MON	02:00:00	02/15/21 02:00:00 RC 0 Completed normally	- none -	- none -	- none -	- none -	CP XAUTOLOG CE CMD NORM	
	ADMIN	RACFSMF RACF smf report	VSIVC1	SUN	01:00:00	02/07/21 01:00:00 RC 0 Completed normally	- none -	- none -	- none -	- none -	CP XAUTOLOG RACFSMF	
	ADMIN	SFPURGER Purge spool	VSIVC1	ALL	22:00:00	02/15/21 22:00:00 RC 0 Completed normally	- none -	- none -	- none -	- none -	CP XAUTOLOG SFPURGER	In-queue
	ADMIN	TIMECHG Time change check	VSIVC1	SUN	02:00:00	02/14/21 02:00:00 RC 0 Completed normally	- none -	- none -	- none -	- none -	CP XAUTOLOG AUTOUID CMD EXEC CHKZONE	
	ADMIN	VSIBKUP Backup SFS pools	VSIVC1	ALL	22:30:00	02/15/21 22:30:00 RC 0 Completed normally	- none -	- none -	- none -	- none -	CP XAUTOLOG VSIBKUP	In-queue
	JAMES	ENDODAY	VSIVC1	WEEKDAY	15:30:00	02/15/21 15:30:00 ERR 45 HCPMSG045E JAMES not logged on	- none -	- none -	- none -	- none -	EXEC TELL JAMES Aren't you done yet?	In-queue
	SYSTEM	ZPAUDCLN	VSIVC1	Today	23:30:00			- none -	00:00:00		EXEC ZPAUDCLN	In-queue
	SYSTEM	ZPLCL001	VSIVC1	Today	13:30:00			- none -	12:00:00		EXEC ZPDEMOEX	In-queue
	SYSTEM	ZPRUNEXP	VSIVC1	Today	08:15:00			- none -	02:00:00		EXEC ZPRUNEXP	In-queue
	SYSTEM	ZPRUNQUO	VSIVC1	Today	12:30:00			- none -	12:00:00		EXEC ZPRUNQJO	In-queue
	ADMIN	CE_REPORT Run CE processing	VSIVC2	MON	02:00:00	02/15/21 02:00:00 RC 0 Completed normally	- none -	- none -	- none -	- none -	CP XAUTOLOG CE CMD NORM	Remote

Velocity Software – Headquarters
P.O. Box 390640
Mountain View, CA 94039-0640
Phone: 650/964-8867 | Fax: 650/964-9012
info@velocitysoftware.com
www.velocitysoftware.com

PRSRT FIRST CLASS
US POSTAGE
PAID
SAN JOSE, CA
PERMIT #10

2021 IBM Z, Z/VM AND LINUX ON Z EVENTS

Looking to improve your IBM Z knowledge and skills? Here are some events that might be of interest for you. Please check our next newsletters and social media sites for updates.

SHARE Virtual Summit
March 2-4, 9-11, 16-17, 23-24

SHARE Virtual Experience
Summer 2021, August

IBM Think
A digital event experience
May 11 – 12, 2021 | Americas
May 12 – 13, 2021 | APAC and EMEA

IBM TechU
The virtual edition
On Demand package all sessions replays
until January 31, 2021

VM Workshop
The Ohio State University, Columbus, OH
June 10-12, 2021

GSE UK Virtual Conference
November 2 - 11

Imprint
Velocity Software, Inc. Located in Mountain View, California,
Columbus, Ohio and Mannheim, Germany.
Follow us on LinkedIn, Facebook, Twitter and xing.
www.velocitysoftware.com, info@velocitysoftware.com