

zPRO

Powerful, Easy to Use Cloud Management for Linux on IBM Z

A Virtual Demo

Velocity Software, Inc

<https://www.velocitysoftware.com>

info@velocitysoftware.com
support@velocitysoftware.com



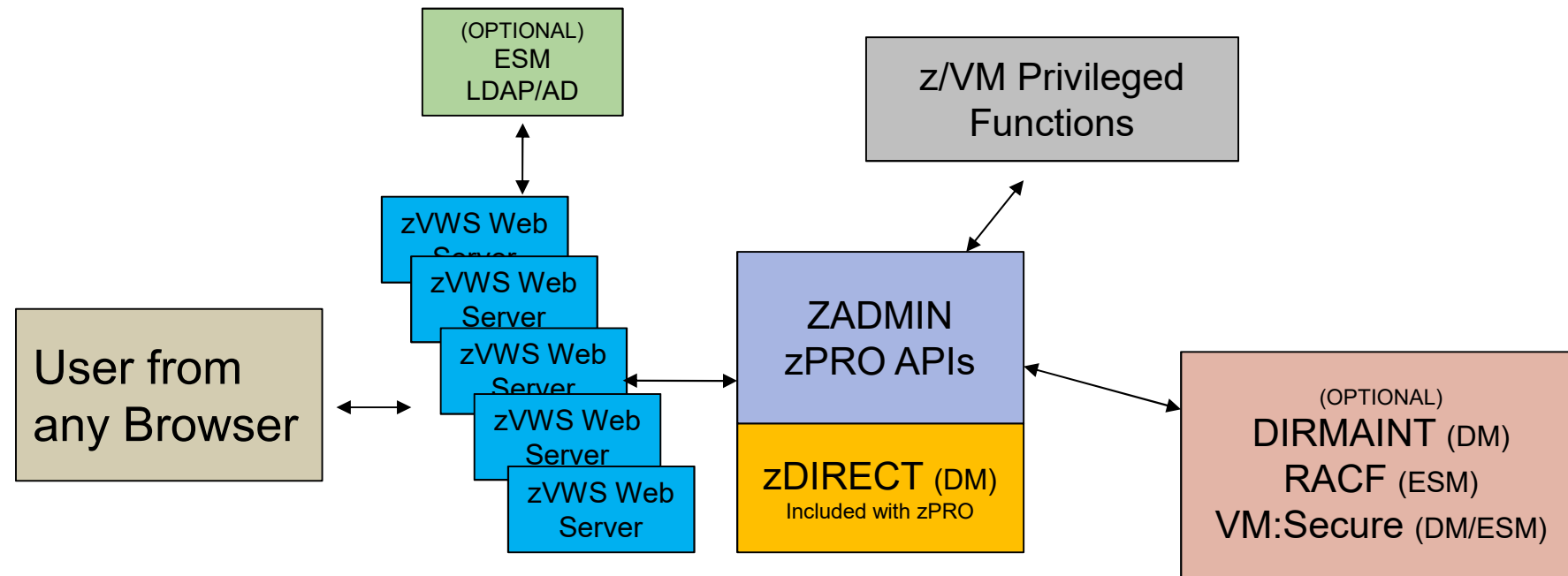
Introduction

- **This Virtual Demo is intended to convey details about what zPRO is and how it can be used to improve workflow in the management of Linux on Z**
- **There is far more to zPRO than can be put into this document**
 - The zPRO Administrator's Guide has more information
- **Contact us to learn more or to schedule a real-time demo of the product!**
 - We would love the opportunity to show you more about zPRO and how it can help you and your organization be successful with Linux on z/VM

Why zPRO

- **zPRO leverages the *strengths* of z/VM**
 - Very dynamic – extensible
 - zPRO allows you to define different exits, additional APIs, process-windows (called DIRMODELS) and more, to fit your specific needs.
 - Enables quick solutioning – both in speed and time
 - zPRO makes managing Linux on z very easy for systems programmers, end-users, operations, management and potentially other groups. It allows you to designate privileges to other users to build and manage their own servers within the guidelines and scope established by YOU.
 - **Simple, Fast, Lightweight and Reliable** - This is the premise of zPRO and our commitment to you. There are no other requirements other than z/VM and zVPS to run zPRO!

Overview



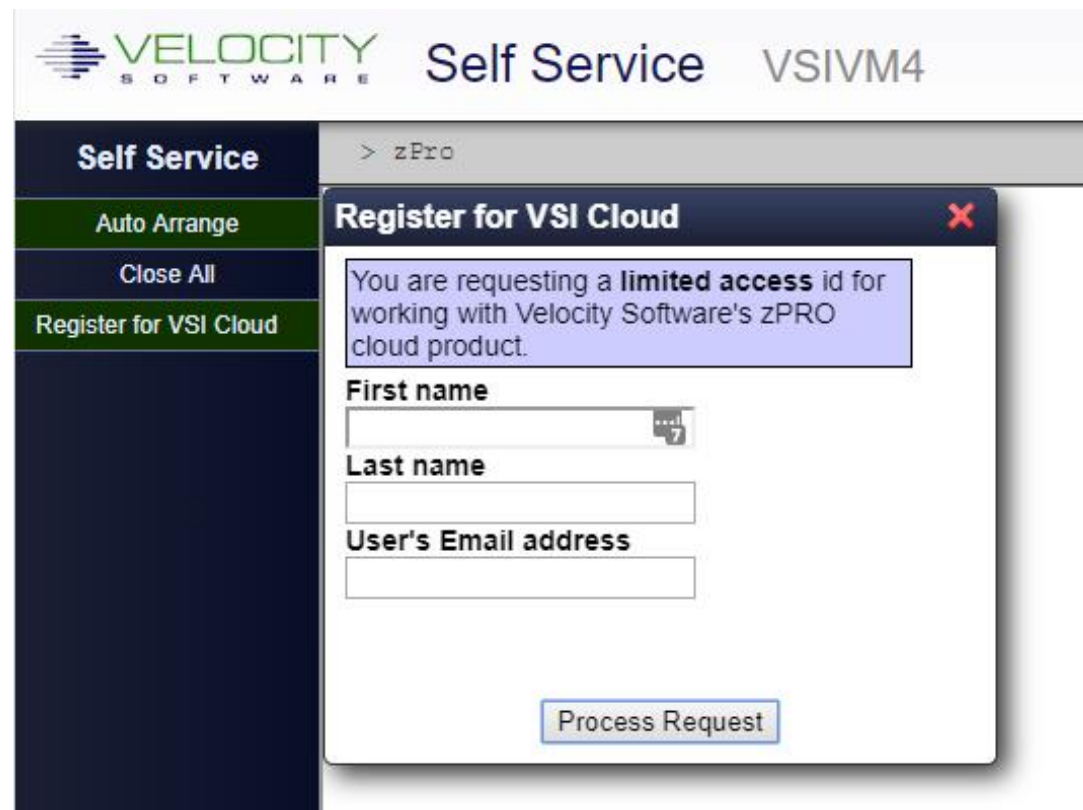
zVPS includes zVWS, which installs five web servers along with ZADMIN by default. zPRO uses the web servers and ZADMIN to perform all of its required functions. The ZADMIN virtual machine handles the privileged commands and interfaces with the Directory Manager (DM) and External Security Manager (ESM), if present. If there is no DIRMANT or VMSECURE available, zPRO is shipped with a zDIRECT feature that will handle all the zPRO-required directory maintenance processes for you, while allowing you to maintain the CP Directory manually for other needs.

Velocity's zPRO Cloud Demo Site

- **To register:** <https://demo.velocitysoftware.com/zpro/>
 - Userid: **demozpro**
 - Password: **demodemo**
- **Check your email for your login info**

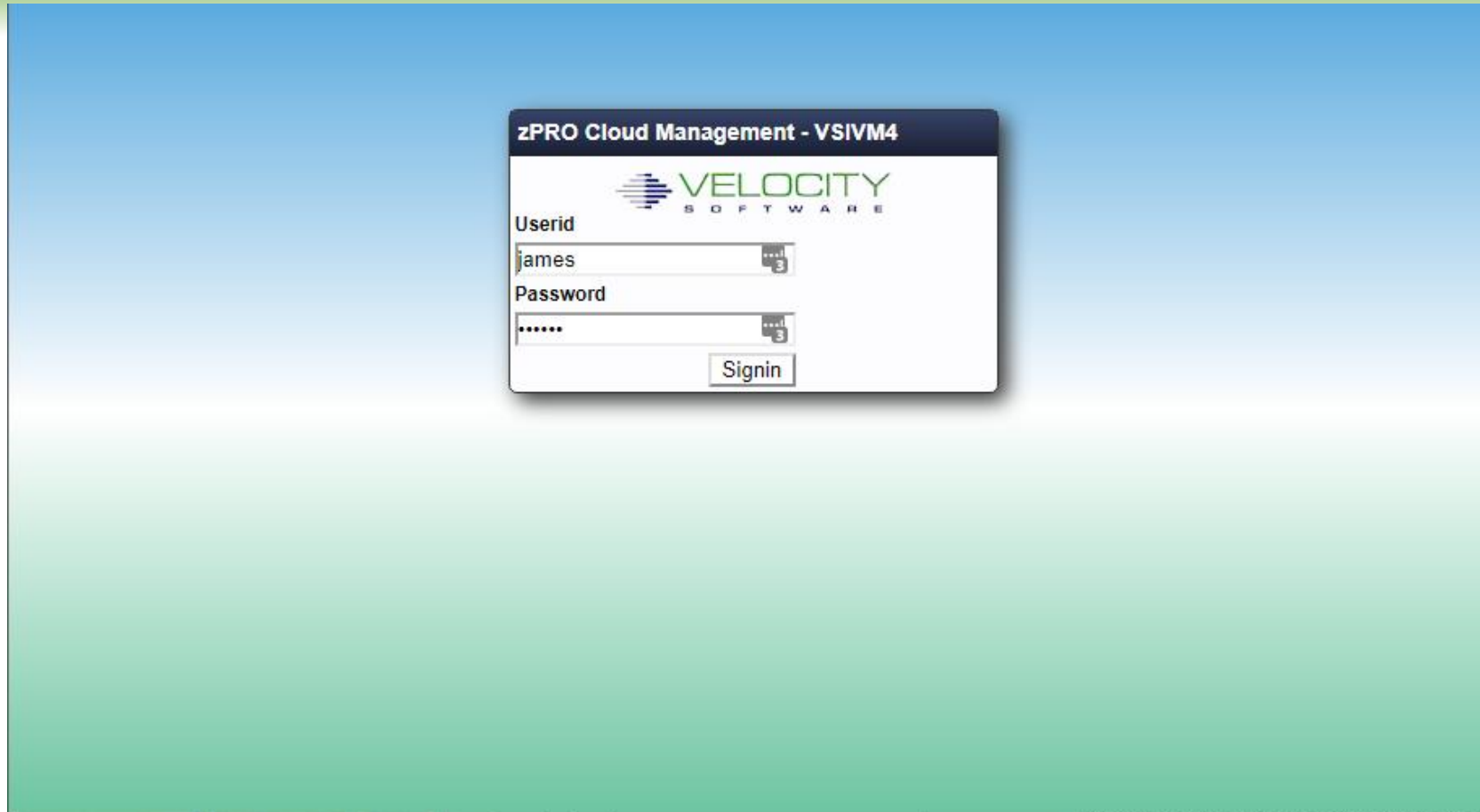
Our Cloud Demo site will allow you to register for your own userid. You can then use that userid to create, manipulate and use a selection of servers through zPRO.

It is a full zPRO system that is running the same code we ship to our customers. **Note** that Demo userids only have access to a subset of zPRO functions and are limited in authorizations.




The screenshot displays the Velocity Software Self Service interface. At the top, the Velocity Software logo is on the left, and 'Self Service' and 'VSIVM4' are on the right. Below the logo, a navigation menu includes 'Self Service', 'Auto Arrange', 'Close All', and 'Register for VSI Cloud'. The 'zPro' section is active. A modal window titled 'Register for VSI Cloud' is open, containing a message: 'You are requesting a **limited access** id for working with Velocity Software's zPRO cloud product.' Below the message are input fields for 'First name', 'Last name', and 'User's Email address'. A 'Process Request' button is at the bottom of the modal.

zPRO Virtual Demo: Sign-in

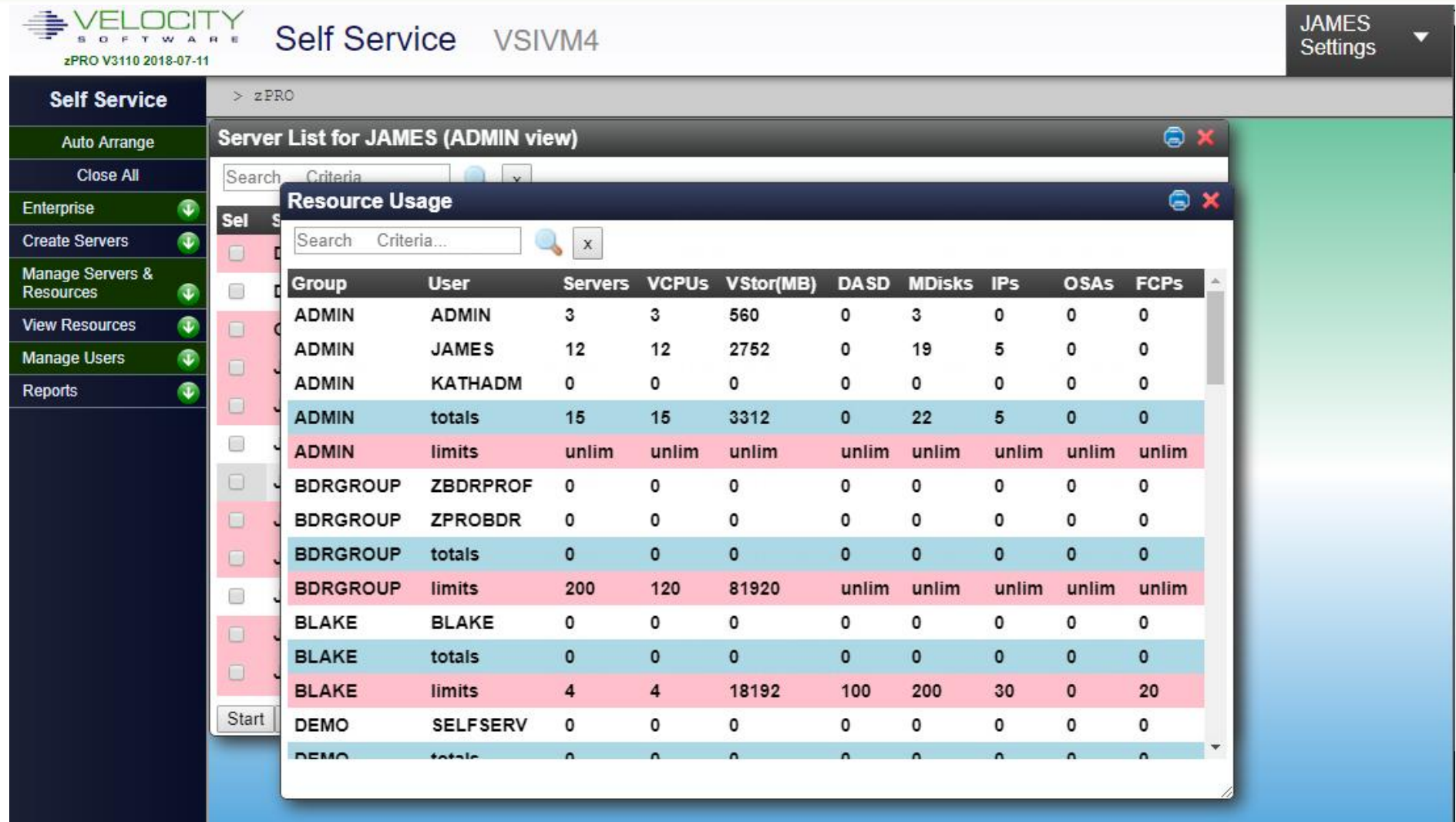


Login to zPRO is simple – you are presented with a userid/password prompt to enter your zPRO defined information. Your credentials can be validated on z/VM directly, through LDAP/AD, or any credential verification process that can be implemented via the available security exit.

Virtual Demo: Initial View

Once logged on, you are presented with the zPRO workspace. Within the workspace is where the process-windows are opened. You can move/arrange these windows as you wish. On login, the AUTOOPEN windows, as defined by the zPRO administrator, are presented. The left side is the menu that gives you access to all the self-service processes that you are authorized to use. Clicking on a menu item with the down-arrow icon  will display sub-menu items for that group.

Content of the various windows is governed by the authorizations and scope imposed on the end-user.



The screenshot shows the Velocity Software Self Service interface. The top navigation bar includes the Velocity Software logo, 'Self Service', and 'VSIVM4'. A user profile for 'JAMES' with a 'Settings' dropdown is in the top right. The left sidebar contains a 'Self Service' menu with options like 'Auto Arrange', 'Close All', 'Enterprise', 'Create Servers', 'Manage Servers & Resources', 'View Resources', 'Manage Users', and 'Reports'. Two windows are open: 'Server List for JAMES (ADMIN view)' and 'Resource Usage'. The 'Resource Usage' window displays a table with columns for Group, User, Servers, VCPUs, VStor(MB), DASD, MDisks, IPs, OSAs, and FCPs.




Group	User	Servers	VCPUs	VStor(MB)	DASD	MDisks	IPs	OSAs	FCPs
ADMIN	ADMIN	3	3	560	0	3	0	0	0
ADMIN	JAMES	12	12	2752	0	19	5	0	0
ADMIN	KATHADM	0	0	0	0	0	0	0	0
ADMIN	totals	15	15	3312	0	22	5	0	0
ADMIN	limits	unlim	unlim	unlim	unlim	unlim	unlim	unlim	unlim
BDRGROUP	ZBDRPROF	0	0	0	0	0	0	0	0
BDRGROUP	ZPROBDR	0	0	0	0	0	0	0	0
BDRGROUP	totals	0	0	0	0	0	0	0	0
BDRGROUP	limits	200	120	81920	unlim	unlim	unlim	unlim	unlim
BLAKE	BLAKE	0	0	0	0	0	0	0	0
BLAKE	totals	0	0	0	0	0	0	0	0
BLAKE	limits	4	4	18192	100	200	30	0	20
DEMO	SELSERV	0	0	0	0	0	0	0	0
DEMO	totals	0	0	0	0	0	0	0	0

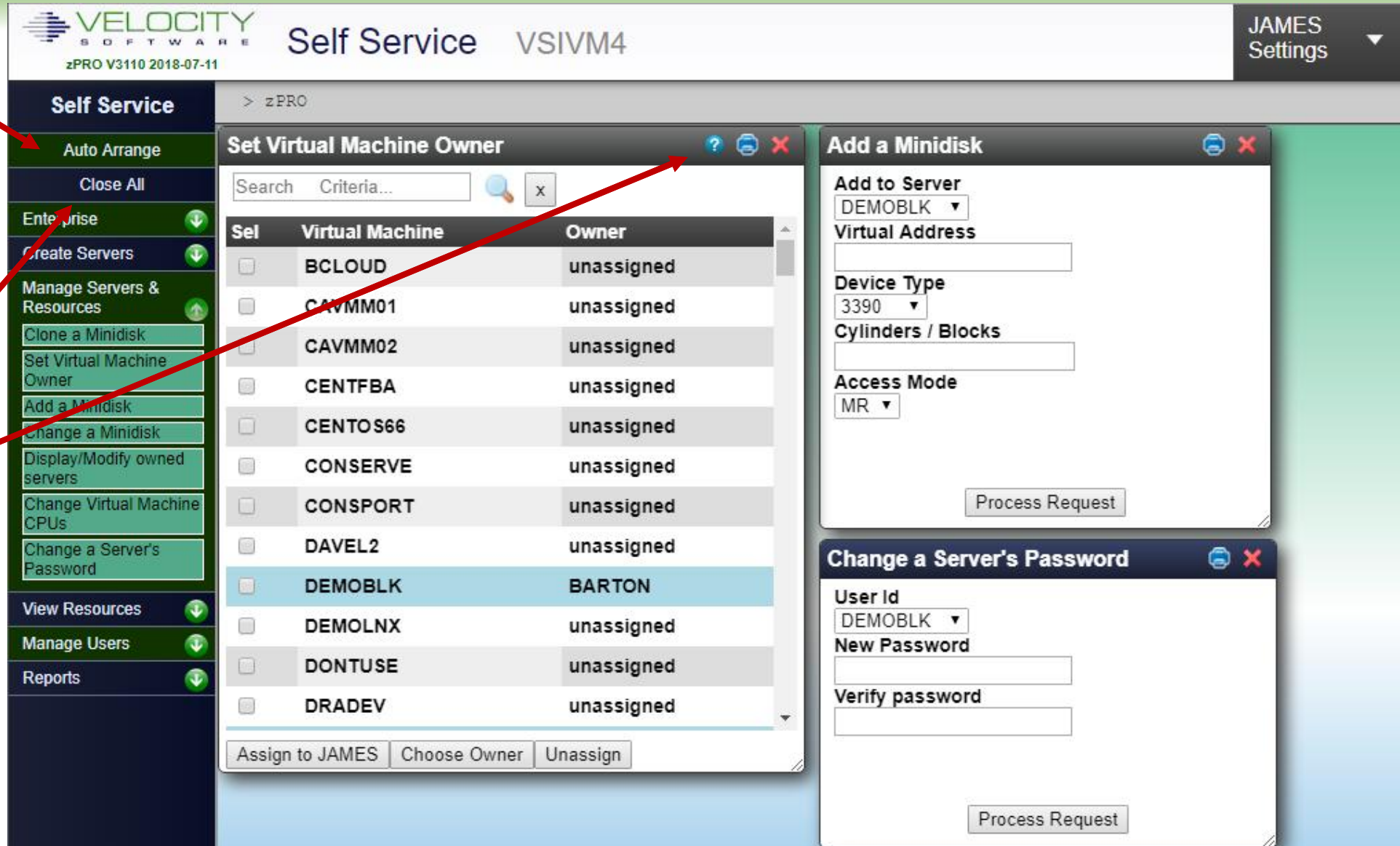
Virtual Demo: Windows and Controls

Any open windows can be Auto Arranged to present them side-by-side across your workspace. This can be handy if you have multiple windows open on top of each other and want to see them all at once.

A simple Close All is available to close any open windows no matter how many are open.

Windows also may have three basic controls on the title bar:

-  Content Help (if available)
-  Print
-  Close



The screenshot displays the Velocity Software Self Service interface. The main window is titled "Set Virtual Machine Owner" and contains a table of virtual machines. The table has columns for "Sel", "Virtual Machine", and "Owner". The "DEMOBLK" row is selected, and its owner is "BARTON".

Sel	Virtual Machine	Owner
<input type="checkbox"/>	BCLOUD	unassigned
<input type="checkbox"/>	CAVMM01	unassigned
<input type="checkbox"/>	CAVMM02	unassigned
<input type="checkbox"/>	CENTFBA	unassigned
<input type="checkbox"/>	CENTOS66	unassigned
<input type="checkbox"/>	CONSERVE	unassigned
<input type="checkbox"/>	CONSPORT	unassigned
<input type="checkbox"/>	DAVEL2	unassigned
<input checked="" type="checkbox"/>	DEMOBLK	BARTON
<input type="checkbox"/>	DEMOLNX	unassigned
<input type="checkbox"/>	DONTUSE	unassigned
<input type="checkbox"/>	DRADEV	unassigned

Other windows visible include "Add a Minidisk" and "Change a Server's Password". The "Add a Minidisk" window shows fields for "Add to Server" (DEMOBLK), "Virtual Address", "Device Type" (3390), "Cylinders / Blocks", and "Access Mode" (MR). The "Change a Server's Password" window shows fields for "User Id" (DEMOBLK), "New Password", and "Verify password".

The interface also features a sidebar with navigation options: "Self Service", "Auto Arrange", "Close All", "Enterprise", "Create Servers", "Manage Servers & Resources", "Clone a Minidisk", "Set Virtual Machine Owner", "Add a Minidisk", "Change a Minidisk", "Display/Modify owned servers", "Change Virtual Machine CPUs", "Change a Server's Password", "View Resources", "Manage Users", and "Reports".

Virtual Demo: Server Management

The Manage Services and Resources menu items shipped give you a multitude of ways to manage your servers.

You can add, change, and delete MDISKS, CPU and Storage size. You can change servers' VM password if needed. There is also a Set Virtual Machine Owner model to bring servers that were built outside of zPRO, under the zPRO umbrella of server management. This process also assigns "ownership" of servers to an end-user for subsequent server management. In addition, by using the "Unassign" feature servers can be removed from zPRO's scope of management.

zPRO utilizes two "NOGO" lists, which identify virtual machines that can never be added to zPRO server management. zPRO is shipped with a standard list and you can define your own list locally. These are to protect system userids from inadvertently being added to zPRO.

VELOCITY SOFTWARE Self Service VSIVM4 JAMES Settings

zPRO V3110 2018-07-11

Self Service > zPRO

Set Virtual Machine Owner

Sel	Virtual Machine	Owner
<input type="checkbox"/>	BCLLOUD	unassigned
<input type="checkbox"/>	CAVMM01	unassigned
<input type="checkbox"/>	CAVMM02	unassigned
<input type="checkbox"/>	CENTFBA	unassigned
<input type="checkbox"/>	CENTOS66	unassigned
<input type="checkbox"/>	CONSERVE	unassigned
<input type="checkbox"/>	CONSPORT	unassigned
<input type="checkbox"/>	DAVEL2	unassigned
<input checked="" type="checkbox"/>	DEMOBLK	BARTON
<input type="checkbox"/>	DEMOLNX	unassigned
<input type="checkbox"/>	DONTUSE	unassigned
<input type="checkbox"/>	DRADEV	unassigned

Assign to JAMES Choose Owner Unassign

Add a Minidisk

Add to Server DEMOBLK Virtual Address Device Type 3390 Cylinders / Blocks Access Mode MR Process Request

Change a Server's Password

User Id DEMOBLK New Password Verify password Process Request

Virtual Demo: Server Management (cont.)

Managing servers in zPRO is done in many ways. The “Display/Modify owned servers” menu item is the most commonly used method for this purpose. The table shows all the servers that you have access to manage, and details about each.

The row of buttons at the bottom of the window will include only operations that you are authorized to perform for any selected servers. Selecting one or more servers and clicking an action button will initiate the action FOR ALL SELECTED SERVERS. Confirmations are presented for anything that causes a state-change to the server (like stopping, deleting, etc) You can manage MDISKS and LINKS for each server from here also.

VELOCITY SOFTWARE
zPRO V3111 2018-08-08

Self Service VSIVM4

JAMES Settings

Self Service > zPRO

Server List for JAMES (ADMIN view)

Search Criteria...

Sel	Server	Owner	Group	Expiration	System	Status
<input type="checkbox"/>	DEMOBLK	BARTON	ADMIN	NONE	VSIVM4	Not Running
<input type="checkbox"/>	DSA0001	TDNVS	TONY1	NONE	VSIVM4	Running
<input type="checkbox"/>	GOLDTDN1	RKSDEV	GROUP1	NONE	VSIVM4	Not Running
<input type="checkbox"/>	JAMES100	JAMES	ADMIN	11 Oct 2018 - 07:43:00	VSIVM4	Not Running
<input type="checkbox"/>	JAMES101	JAMES	ADMIN	11 Oct 2018 - 07:43:51	VSIVM4	Not Running
<input type="checkbox"/>	JAMES102	JAMES	ADMIN	28 Oct 2018 - 16:26:51	VSIVM4	Running
<input type="checkbox"/>	JAMES103	JAMES	ADMIN	30 Oct 2018 - 04:04:07	VSIVM4	Running
<input type="checkbox"/>	JAMES104	JAMES	ADMIN	30 Oct 2018 - 04:52:54	VSIVM4	Not Running
<input type="checkbox"/>	JAMES105	JAMES	ADMIN	30 Oct 2018 - 04:54:53	VSIVM4	Not Running
<input type="checkbox"/>	JAMES106	JAMES	ADMIN	6 Nov 2018 - 07:33:12	VSIVM4	Not Running
<input type="checkbox"/>	LXDB2001	RKSDEV	GROUP1	NONE	VSIVM4	Running
<input type="checkbox"/>	NC SX0401	NC SI0000	NCATGRP	30 Oct 2018 - 10:28:46	VSIVM4	Running

Start Stop Delete View Log Edit MDisks LINKs

Virtual Demo: Server Expiration

zPRO allows you to define servers with optional expiration periods. This can be handy for groups/users that you want to allow servers to exist for a finite amount of time.

There are different configurations you can set for expirations including the type of delete (a soft-delete where the server is disabled but still defined on the system, a hard-delete where the server is completely deleted and all associated resources are reclaimed or a notification-only). Notifications can be set up to go to the owner and the system admin before and as expiration actions occur.

Expiration target date/time can also be edited at any time.

VELOCITY SOFTWARE Self Service VSIVM4 JAMES Settings

zPRO V3111 2018-08-08

Self Service > zPRO

Server List for JAMES (ADMIN view)

Sel	Server	Owner	Group	Expiration	System	Status
<input type="checkbox"/>	DEMOBLK	BARTON	ADMIN	NONE	VSIVM4	Not Running
<input type="checkbox"/>	DSA0001	TDNVS1	TONY1	NONE	VSIVM4	Running
<input type="checkbox"/>	GOLDTDN1	RKSDEV	GROUP1	NONE	VSIVM4	Not Running
<input type="checkbox"/>	JAMES100	JAMES	ADMIN	11 Oct 2018 - 07:43:00	VSIVM4	Not Running
<input type="checkbox"/>	JAMES101	JAMES	ADMIN	11 Oct 2018 - 07:43:51	VSIVM4	Not Running
<input type="checkbox"/>	JAMES102	JAMES	ADMIN	28 Oct 2018 - 16:26:51	VSIVM4	Running
<input type="checkbox"/>	JAMES103	JAMES	ADMIN	30 Oct 2018 - 04:04:07	VSIVM4	Running
<input type="checkbox"/>	JAMES104	JAMES	ADMIN	30 Oct 2018 - 04:52:54	VSIVM4	Not Running
<input type="checkbox"/>	JAMES105	JAMES	ADMIN	30 Oct 2018 - 04:54:53	VSIVM4	Not Running
<input type="checkbox"/>	JAMES106	JAMES	ADMIN	6 Nov 2018 - 07:33:12	VSIVM4	Not Running
<input type="checkbox"/>	LXDB2001	RKSDEV	GROUP1	NONE	VSIVM4	Running
<input type="checkbox"/>	NC SX0401	NC SI0000	NCATGRP	30 Oct 2018 - 10:28:46	VSIVM4	Running

Start Stop Delete View Log Edit MDisks LINKs

Virtual Demo: Provisioning

There are many ways to provision servers in zPRO. This shows you two different ways. The first is a self-defined server creation (Clone a Virtual Machine). This approach allows the user to define a new server and set specific resource characteristics.

Upon successful creation, this process will cause an email notification to be sent to the requestor. Optionally, the target email address can be changed if perhaps it is being built for someone else.

The screenshot displays the Velocity Software Self Service interface. The top navigation bar includes the Velocity Software logo, the text 'Self Service VSIVM4', and a user profile for 'JAMES' with a 'Settings' dropdown. The main content area is titled 'zPRO' and features a 'Clone a Virtual Machine' form. The form is divided into two columns. The left column contains fields for 'Image to Copy' (set to 'DEFLNXRO'), 'New ID', 'Password', 'Verify Password', and 'Account No.' (set to 'N/A'). The right column contains fields for 'No. Cpus' (set to '1'), 'Memory Size' (set to '1 G'), 'Days to expiration' (set to '2'), and an 'Auto Start Server' checkbox. Below these fields is an 'Optional (blank field for no email): Email address to send notification to' field (set to 'james@velocitysoftware.com') and a 'Your Return Email address' field (set to 'james@velocitysoftware.com'). A 'Process Request' button is located at the bottom of the form. A sidebar on the left lists various server creation options, with 'Clone a Virtual Machine' highlighted. Red arrows point from the text on the left to the 'Clone a Virtual Machine' option in the sidebar and the 'Email address to send notification to' field in the form.

Virtual Demo: Provisioning (cont.)

The second provision model is a self-contained definition where all the details are pre-defined for the user.

In this example, a provision model for a RHEL 7 server and one for a z/VM 6.4 2nd level guest is presented.

All the user has to do is click one button to provision the new server. They will receive an email on completion with any additional instructions or information on the new server.

The screenshot displays the Velocity Software Self Service interface. The top navigation bar includes the Velocity Software logo, the text "Self Service VSIVM4", and a user profile for "JAMES Settings". The main content area shows a sidebar with various provisioning options, including "Request RHEL 7.4 Server" and "Request a z/VM 6.4 Virtual Machine". Two modal windows are open, both titled "Request RHEL 7.4 Server" and "Request a z/VM 6.4 Virtual Machine". Each window contains a "Hello" message, a text input field for the user's name (James Vincent), a confirmation message, a checked checkbox for "Do you wish to start server", a "Details will be sent to:" field with the email "james@velocitysoftware.com", and a "Process Request" button.

Virtual Demo: Provisioning Status

When you create a new server, zPRO will give you the initial status and IP (if assigned). It will also open the Job Queue window to allow you to know the status of the new server generation process.

Some server clone processes will take time; the Job Queue gives you a way to know what the status is of the new servers.

Clicking on the server information in the Job Queue will open the Audit log for that server... (see next slide)

The screenshot displays the Velocity Software Self Service interface. At the top, the logo and 'Self Service VSIVM4' are visible, along with a user profile for 'JAMES' and a 'Settings' dropdown. The main content area is divided into a left sidebar and a central workspace. The sidebar, titled 'Self Service', lists various options: 'Auto Arrange', 'Close All', 'Enterprise', 'Create Servers', and several server request options including 'Build multiple Virtual Machines from one Gold Image', 'Clone a Virtual Machine', 'Request a CMS virtual machine', 'Request RHEL 7.4 Server', 'Request a Minimal SLES 11 Linux Server', 'Request a Full SLES 11 Linux Server', 'Request a Ubuntu 16.04 Linux Server', and 'Request a Ubuntu 17.10 Linux Server'. The central workspace shows a 'Request RHEL 7.4 Server' dialog box with a 'Process Request' button. A notification box at the bottom of the dialog states: 'Image JAMES106 creation started Assigned IP address 10.0.0.18'. To the right, a 'Job Queue' window displays a list of completed jobs: 'JAMES106 - CLONE Completed 18/08/07 09:15:37 JAMES106 has been autostarted' and 'JAMES111 - CLONE Completed 18/08/07 04:11:33 JAMES111 has been autostarted', both with 'Disk 0200 - Ended' status. A 'Clear Completed Jobs' button is at the bottom of the Job Queue.

Virtual Demo: Auditing

The Audit Log provides step by step details on each action zPRO performed to complete a request on behalf of the end-user. This information is a useful way to see what steps were done, any issues that may have occurred and an audit-trail of processes for problem determination and resolution.

The Audit Log is also available from the Userid drop-down. This drop-down also gives you access to the Job Queue, Reporting a bug and Logout.

Only audit information that falls within the scope of the end-user's authorizations is displayed.

The screenshot displays the Velocity Software Self Service interface. At the top, it shows the Velocity Software logo, the text 'Self Service VSIVM4', and the user 'JAMES' with a dropdown menu. The dropdown menu includes options: 'Job Queue', 'Audit Log', 'Report Bug', 'About zPRO', and 'Logout'. The main content area is titled 'Request RHEL 7.4 Server' and shows a 'Hello' message to 'James Vincent'. Below this is the 'JAMES111 Log' section, which includes a search filter and a list of log entries. A red arrow points from the 'Audit Log' option in the dropdown menu to the 'JAMES111 Log' section. Another red arrow points from the 'Job Queue' option to the 'Job Queue' button in the interface.

Timestamp	User	Action
08/07/2018 - 04:23:55.712892	JAMES	ZMDSKMGT: Request to list all links from JAMES111
08/07/2018 - 04:23:35.870958	JAMES	PROCZPRO: Minidisk 0204 deleted from server JAMES111 rc=0
08/07/2018 - 04:23:35.868674	JAMES	ZMDSKMGT: Minidisk 0204 deleted from server JAMES111
08/07/2018 - 04:23:34.560069	JAMES	ZMDSKMGT: Delete minidisk 0204 requested for JAMES111
08/07/2018 - 04:22:57.279712	JAMES	PROCZPRO: Minidisk 0204 added to server JAMES111 with size 5 cylinders rc=0
08/07/2018 - 04:22:57.277180	JAMES	ZMDSKMGT: Minidisk 0204 added to server JAMES111 with size 5 cylinders
08/07/2018 - 04:22:55.954423	JAMES	ZMDSKMGT: Add minidisk 0204 requested for JAMES111
08/07/2018 - 04:22:55.945769	JAMES	ZMDSKMGT: Request to list all devices for JAMES111

Virtual Demo: Managed Resources

The View Resources menu items give you a view into resource consumption.

Resource Usage shows you a break-down by user and group of the number of servers and the amount of resource consumed by each. These totals are used in conjunction with installation defined resource-limits. These limits are used to control resource allocation by Groups and/or Users. You can configure a limit on any of the resources so that any group or user does not consume more than they should. You can also limit resources at a server level. For example, if you do not want servers to have memory in excess of 10G for instance, you can set a memory limit for all servers.

The screenshot shows the Velocity Software Self Service interface. The main window is titled "Resource Usage" and contains a table with the following data:

Group	User	Servers	VCPUs	VStor(MB)	DASD	MDisks	IPs	OSAs	FCPs
ADMIN	ADMIN	3	3	560	0	3	0	0	0
ADMIN	JAMES	13	13	3008	0	20	6	0	0
ADMIN	KATHADM	0	0	0	0	0	0	0	0
ADMIN	totals	16	16	3568	0	23	6	0	0
ADMIN	limits	unlim	unlim	unlim	unlim	unlim	unlim	unlim	unlim
BDRGROUP	ZBDRPROF	0	0	0	0	0	0	0	0
BDRGROUP	ZPROBDR	0	0	0	0	0	0	0	0
BDRGROUP	totals	0	0	0	0	0	0	0	0
BDRGROUP	limits	200	120	81920	unlim	unlim	unlim	unlim	unlim
BLAKE	BLAKE	0	0	0	0	0	0	0	0
BLAKE	totals	0	0	0	0	0	0	0	0
BLAKE	limits	4	4	18192	100	200	30	0	20
DEMO	SELSERV	0	0	0	0	0	0	0	0
DEMO	totals	0	0	0	0	0	0	0	0

Virtual Demo: IP Address Allocation

Display zPRO controlled IP Addresses is a view to present a list of IP addresses managed by zPRO. The display shows whether an IP address is available or, if allocated, which end-user allocated it and to which server it has been allocated.

IP addresses are maintained within a table, described in the zPRO Admin Guide. You can define Tables for Groups and Users also to help contain what they use for the servers. For instance, in a Lab you may want them to only use a Lab VSWITCH and IPs and not the production VSWITCH/IPs.

The screenshot shows the Velocity Software Self Service interface. The top navigation bar includes the Velocity Software logo, the text "Self Service VSIVM4", and a user profile for "JAMES" with a "Settings" dropdown. The main content area is titled "Self Service" and contains a sidebar with navigation options: "Auto Arrange", "Close All", "Enterprise", "Create Servers", "Manage Servers & Resources", "View Resources" (with sub-options: "Display zPRO controlled IP addresses", "Resource Graph", "Resource Usage", "Server Performance"), "Manage Users", and "Reports". The main display area shows a breadcrumb "> zPRO" and a window titled "IP Address List for JAMES". This window contains a search bar and a table of IP addresses.

IP Address	Status	Allocation Date	User	Server	Network
10.0.0.18	ALLOC	08/07/18	JAMES	JAMES106	VSI10NET
10.0.0.19	FREE	07/16/18			VSI10NET
10.0.0.21	FREE	06/26/18			VSI10NET
10.0.0.22	FREE	06/26/18			VSI10NET
10.0.0.23	FREE	06/26/18			VSI10NET
10.0.0.24	FREE	06/26/18			VSI10NET
10.0.0.25	ALLOC	04/18/18	RKSDEV	RKSUBU01	VSI10NET
10.0.0.26	FREE	05/27/18			VSI10NET
10.0.0.27	FREE	05/27/18			VSI10NET
10.0.0.28	FREE	05/27/18			VSI10NET

Virtual Demo: Performance Link

The Server Performance model gives you a direct link into zVIEW to show details on your Linux servers.

For any Linux server running, you can click the server name link and it will open zVIEW in another tab with the MYLINUX views. That view setup is predefined for you in zVIEW.

The screenshot shows the Velocity Software Self Service interface. The top navigation bar includes the Velocity Software logo, 'Self Service', and 'VSIVM4'. A user profile 'JAMES' with a 'Settings' dropdown is in the top right. The main content area is titled '> zPRO' and contains a 'Server Performance - JAMES' window. This window has a search bar and a table of server performance data. A red arrow points from the 'Server Performance' link in the left sidebar to the 'Server Performance' window.

Server	Type	Owner	Status
DEMOBLK		BARTON	Not Running
DSA0001		TDNVI	Running
GOLDTDN1		RKSDEV	Not Running
JAMES100		JAMES	Not Running
JAMES101		JAMES	Not Running
JAMES102		JAMES	Running
JAMES103		JAMES	Running
JAMES104		JAMES	Not Running
JAMES105		JAMES	Not Running
JAMES106		JAMES	Running
JAMES107		JAMES	Running
JAMES108		JAMES	Not Running

Virtual Demo: zPRO User Management

The Manage zPRO Users menu items allow you to manage your zPRO end-user userids.

The Manage zPRO Users model shows you all the users defined as zPRO end-users, their name and if they have servers defined. You can delete any ALT-ID user if they do not own servers.

An ALT-ID is defined within another zPRO user. That ALT-ID has its own userid, but it uses/inherits all the authorities and resource limits of the base zPRO user. ALT-IDs is also a means to allow users to authenticate via LDAP/AD with greater than 8 character userids.

The screenshot displays the Velocity Software Self Service interface. The top navigation bar includes the Velocity Software logo, the text "Self Service VSIVM4", and a user profile for "JAMES Settings". The main content area is titled "Managed User List" and features a search bar and a table of users. The table has columns for "Sel", "User", "Alt-ID of", "Name", and "Has Servers". A "Delete" button is located at the bottom of the table.

Sel	User	Alt-ID of	Name	Has Servers
	ADMIN	n/a	zPRO Administrator	No
	BARTON	ADMIN	Barton Robinson	Yes
	BLAKE	n/a	Blake Robinson	No
	DEMOZPRO	n/a	VSI_Demo User	No
	DGUEST	n/a	VSI_Demo Guest	No
	GRP1ADM	n/a	VSI-Demo Admin	No
	GRP1USER	n/a	VSI-Demo User	No
	IAMOPER	n/a	Joe Operator	No
	JAMES	n/a	James Vincent	Yes
	JSVDEV	NCATIT01	James Zincent	Yes
	KATHADM	n/a	Kathryn Arrell	No
	NCATIT01	n/a	Cameron Seay	No
<input type="checkbox"/>	NCSIKATH	NCATIT01	Kathryn Arrell	No

Virtual Demo: Add End-user

Within Manage zPRO Users, you can Add a new zPRO user as an ALT-ID of another zPRO user. This process emails the new user with information on how to login to zPRO.

You can also manage zPRO end-users' passwords. Any user that forgets their password or that you simply need to change a password for, can be done from this self-service model.

The screenshot displays the Velocity Software Self Service interface. The top navigation bar includes the Velocity Software logo, the text 'Self Service VSIVM4', and a user profile for 'JAMES Settings'. The main content area is titled 'zPRO' and contains two overlapping windows. The 'Add a new zPRO user' window is the primary focus, featuring a 'Process Request' button at the bottom. It contains the following fields: 'New ZPRO User Id' (text input), 'Owning ZPUSER' (dropdown menu set to 'ADMIN'), 'First name' (text input), 'Last name' (text input), 'User's Email address' (text input), and 'Your Return Email address' (text input with the value 'james@velocitysoftware.com'). A secondary window, 'Change a user's password', is also visible, containing 'User Id' (dropdown menu set to 'ADMIN'), 'New Password' (text input), and 'Verify password' (text input), with a 'Process Request' button at the bottom. A red arrow points from the 'Add a new zPRO user' window to the 'Change a user's password' window. The left sidebar of the interface lists various self-service options: 'Auto Arrange', 'Close All', 'Enterprise', 'Create Servers', 'Manage Servers & Resources', 'View Resources', 'Manage Users' (with sub-options 'Add a new zPRO user', 'Add a new zPRO Group User', 'Change a user's password', and 'Manage zPRO Users'), and 'Reports'.

Virtual Demo: Resource Reports

Currently, zPRO ships with a report for User/Groups summary. This report shows you not only the counts of defined users/groups, but details on each user. This includes servers built, if the zPRO user has ALT-IDs defined to it and the last time zPRO saw that user in the system (based on the available Audit logs).

More reports will be added as more releases of zPRO are made available.

The screenshot shows the Velocity Software Self Service interface. The top navigation bar includes the Velocity Software logo, the text "Self Service VSIVM4", and a user profile for "JAMES Settings". The main content area is titled "Velocity Software zPRO User Report" and displays the following information:

zPRO User and Group Summary:

- 31 Total zPRO users with ZPUSER configurations
- 27 Total zPRO Alternate users related to a ZPUSER
-
- 58 Total of all zPRO users

- 22 Total zPRO Groups defined

- 6 zPRO users with servers assigned
- 52 zPRO users with no servers assigned

Below the summary, there is a section titled "zPRO users for group ADMIN" which contains a table with the following data:

Userid	Name	Email	ALT-IDs	Servers	Last Seen
ADMIN	zPRO Administrator	support@velocitysoftware.com	2	0	>2018-05-07
* BARTON	Barton Robinson	barton@velocitysoftware.com	.	3	2018-05-09
* ZVPS	zVPS Admin	support@velocitysoftware.com	.	0	>2018-05-07
JAMES	James Vincent	james@velocitysoftware.com	0	12	2018-08-07

Virtual Demo: Server Relocation (LGR)

zPRO has multiple ways to manage relocating servers, via LGR(Live Guest Relocation), within your SSI clusters.

zPRO is aware when it is running in an SSI cluster and will present the Move function in the Server List model if you are authorized for it. You can select and move servers by selecting the target member to move them to, or zPRO will ask to move it to the other member for a two-member cluster.

VELOCITY SOFTWARE
zPRO V3110 2018-07-11

Self Service VSIVM5

JAMES Settings

> zPRO > Self Service

Server List for JAMES (ADMIN view)

Search Criteria...

Sel	Server	Owner	Group	Expiration	System	Status
<input type="checkbox"/>	LXORA12	ADMIN	N/A	NONE	VSIVM5	Running at VSIVM5
<input type="checkbox"/>	ROBLX6	JSVDEV	MRCGROUP	31 Dec 2043 - 00:00:01	VSIVM5	Running at VSIVM6

Start Stop Move Delete View Log Edit MDisks LINKs

Virtual Demo: Server Relocation (cont)

You also have the option in zPRO to use the Relocate a Server model. Under SSI, zPRO will enable the model to let you select a userid and the target member within the SSI cluster.

The destination list will show all members, including the member the server may be running on but will tell you so and let you chose another member easily.

The screenshot displays the Velocity Software Self Service interface. The top navigation bar includes the Velocity Software logo, the text 'zPRO V3110 2018-07-11', 'Self Service', and 'VSIVM5'. A user profile 'JAMES Settings' is visible in the top right. The left sidebar contains a 'Self Service' menu with options: Auto Arrange, Close All, Back, Create Servers, Manage Servers & Resources (with sub-options: Clone a Minidisk, Set Virtual Machine Owner, Add a Minidisk, Display/Modify owned servers, Relocate a Server (LGR), Change a Server's Password), View Resources, Manage Users, and Reports. The main content area shows a breadcrumb path '> zPRO > Self Service' and a modal dialog box titled 'Relocate a Server (LGR)'. The dialog box contains two dropdown menus: 'Userid on Node' set to 'ROBLX6' and 'Destination' set to 'VSIVM6'. A 'Process Request' button is located at the bottom of the dialog.

Virtual Demo



zPRO Cloud Management - VSIVM4

VELOCITY
SOFTWARE

Userid
iamoper

Password

Signin

The next examples will show you just a hint of how you can utilize zPRO with other groups in your organization. In this case we will login with an Operations userid.

Virtual Demo: Sample Operations User

This Operations zPRO user has very limited access to self-service functions and actions. In this example, they can see every server zPRO has through the Server List model as shown, but they can only Start, Stop and View Log for any server.

zPRO can be configured, exactly as needed to for each group or user, to whom you wish to grant access to. There are a multitude of options available for scope and authorizations.

VELOCITY SOFTWARE
zPRO V3110 2018-07-11

Self Service VSIVM4 IAMOPER Settings

Self Service

Auto Arrange

Close All

Manage Servers & Resources

Display/Modify owned servers

> zPRO

Server List for IAMOPER (ADMIN view)

Search Criteria...

Sel	Server	Owner	Group	Expiration	System	Status
<input type="checkbox"/>	DEMOBLK	BARTON	ADMIN	NONE	VSIVM4	Not Running
<input type="checkbox"/>	DSA0001	TDNVS	TONY1	NONE	VSIVM4	Running
<input type="checkbox"/>	GOLDTDN1	RKSDEV	GROUP1	NONE	VSIVM4	Not Running
<input type="checkbox"/>	JAMES100	JAMES	ADMIN	11 Oct 2018 - 07:43:00	VSIVM4	Not Running
<input type="checkbox"/>	JAMES101	JAMES	ADMIN	11 Oct 2018 - 07:43:51	VSIVM4	Not Running
<input type="checkbox"/>	JAMES102	JAMES	ADMIN	28 Oct 2018 - 16:26:51	VSIVM4	Running
<input type="checkbox"/>	JAMES103	JAMES	ADMIN	30 Oct 2018 - 04:04:07	VSIVM4	Running
<input type="checkbox"/>	JAMES104	JAMES	ADMIN	30 Oct 2018 - 04:52:54	VSIVM4	Not Running
<input type="checkbox"/>	JAMES105	JAMES	ADMIN	30 Oct 2018 - 04:54:53	VSIVM4	Not Running
<input type="checkbox"/>	JAMES106	JAMES	ADMIN	5 Nov 2018 - 09:15:29	VSIVM4	Running
<input type="checkbox"/>	JAMES107	JAMES	ADMIN	30 Oct 2018 - 06:11:52	VSIVM4	Running
<input type="checkbox"/>	JAMES108	JAMES	ADMIN	30 Oct 2018 - 08:58:27	VSIVM4	Not Running

Start Stop View Log

zPRO's Management Benefits

Management of an enterprise, from the resource perspective, requires knowledge of resource allocation, usage, and growth. zPRO keeps track of system resources which are defined within the scope of zPRO management.

Managers can:

- View resource consumption by individuals and/or groups of individuals
- Keep track of activities related to system usage and/or provisioning (Auditing)
- Provide a more responsive environment for end-users. In a mainframe environment, the procurement process for a new collection of Linux servers is generally eliminated. zPRO can be used to "spin up" one or more new servers in the amount of time it takes for the end-user to click and get a cup of coffee.

For even more details, see zPRO Product Highlights at

<https://www.velocitysoftware.com/zPRO.html>

Thank you!

- **We at Velocity Software sincerely hope you found this zPRO Virtual Demo useful**

and remember,

- **Contact us to learn more or to schedule a real-time demo of the product!**
 - We would love the opportunity to show you more about zPRO and how it can help you and your organization be successful with Linux on z/VM

info@velocitysoftware.com
support@velocitysoftware.com