

zPRO

Powerful, Easy to Use Cloud Management

Velocity Software, Inc

<https://www.velocitysoftware.com>

info@velocitysoftware.com

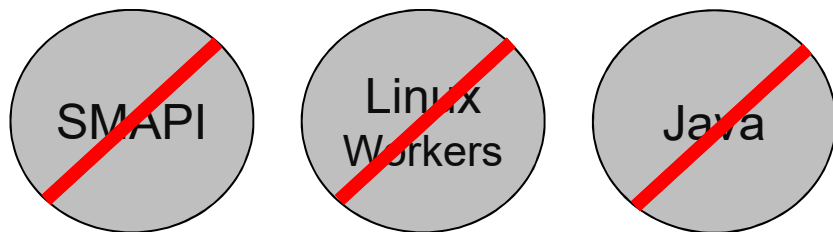
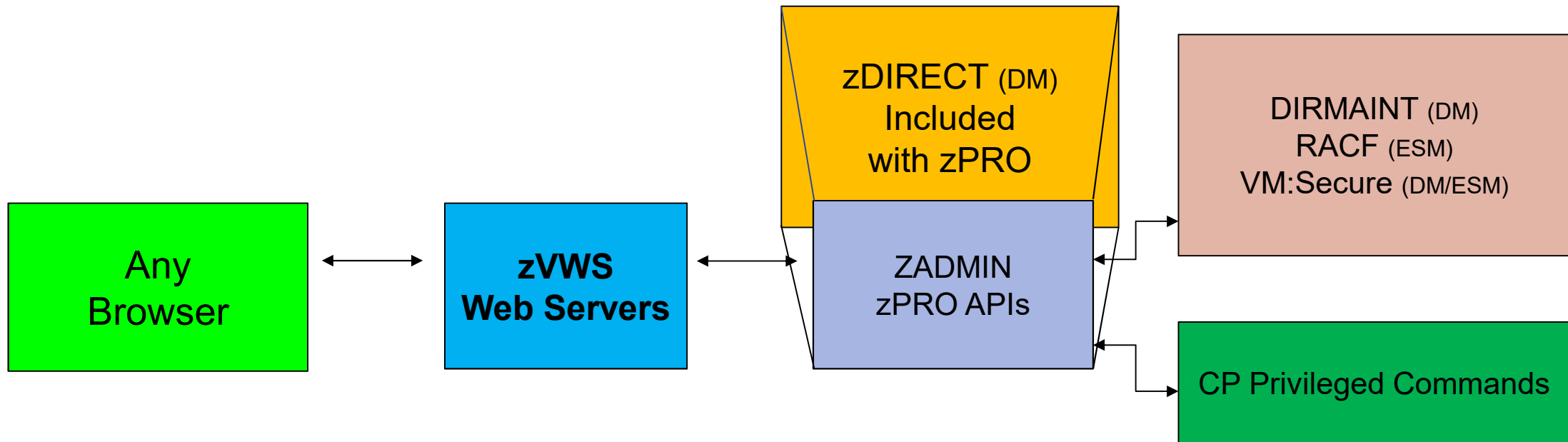
support@velocitysoftware.com




Why zPRO

- **zPRO leverages the *strengths* of z/VM**
- **Empower others to do what they need**
 - Remain in control of your system
 - Saves YOU time
- **Allows non-VM people to manage Linux on Z servers**
- **Very dynamic – extensible**
 - RESTful APIs included for external appliance/application connections
- **Simple, Fast, Lightweight and Reliable**

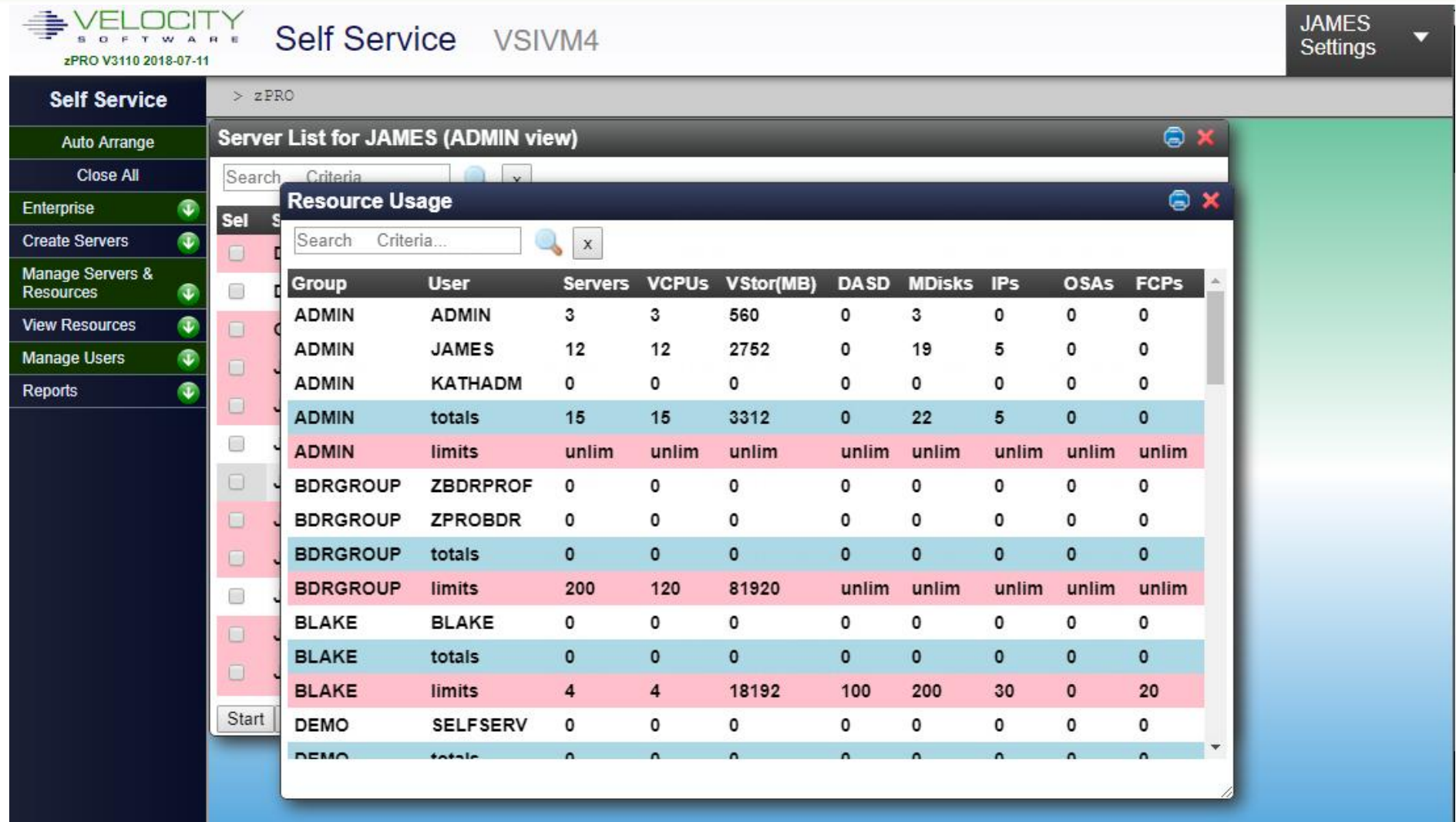
zPRO's Structure – Simple!



zPRO: 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 zPRO Self Service interface. The top navigation bar includes the Velocity Software logo, 'Self Service', and 'VSIVM4'. A user profile for 'JAMES' is visible in the top right corner. The main workspace contains two overlapping windows:

- Server List for JAMES (ADMIN view):** A window with a search bar and a list of servers.
- Resource Usage:** A window displaying a table of resource usage for various users and groups.

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

zPRO: 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"/>	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

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

zPRO: 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 Self Service VSIVM4 JAMES Settings

zPRO V3111 2018-08-08

Self Service > zPRO

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 zPRO Users Reports VALIDATION

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	TDNSI	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

zPRO: 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.

zPRO: 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 dialog boxes are open, each with a "Process Request" button. The first dialog, titled "Request RHEL 7.4 Server", shows a user named James Vincent, a confirmation message, a checked checkbox for "Do you wish to start server", and an email address "james@velocitysoftware.com". The second dialog, titled "Request a z/VM 6.4 Virtual Machine", shows the same user, a confirmation message, an unchecked checkbox for "Auto Start Server", and the same email address.

zPRO: 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.

VELOCITY SOFTWARE Self Service VSIVM4 zPRO V3110 2018-07-11

Self Service > zPRO

Request RHEL 7.4 Server

Hello
James Vincent

Job Queue Refresh Job Lis

JAMES111 Log

Filter: Search keyword Order Toggle: ↓

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

Clear Completed Jobs

JAMES Settings
Job Queue
Audit Log
Report Bug
About zPRO
Logout

zPRO: 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

zPRO: 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

Questions / Comments?



James Vincent

james@velocitysoftware.com

support@velocitysoftware.com

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