

# **zPRO Architecture**

VSI Class

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<https://www.velocitysoftware.com>



# Why zPRO is The Right Solution

- **Provides what you really need**
  - Powerful yet simple and easy to understand
  - Stable, dependable, *FAST*
  - Reduce time – controlled delegation of tasks
  - zPRO installs in about 10 minutes on top of zVPS
  - Can be customized and tailored quickly
    - Extensible – add functions easily
  - Usable by multiple users/groups concurrently
    - Other solutions don't allow concurrent use
  - Enterprise “Single pane of glass”
    - Secure inter-connections
  - Clones, provisions and manages your Linux on Z servers

# 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 with their own applications
- **Full Linux on Z (Cloud) server management**
  - Clone, provision and manage servers with a simple interface
  - Includes a command line interface to your servers; no network needed
- **Supports common directory/security management**
  - zDIRECT is *included* for Directory Management - with or without RACF
- **Provides powerful z/VM Administration functions**



# zPRO – System Administration Features

- **RESTful API interface**
  - Ansible playbooks included
- **Storage Server Manager (DS8K) and System Z HMC interface**
- **zSchedule - Event Scheduler**
- **Security management**
  - RACF Rule Wizard
- **zDIRECT - Directory and Storage Pool management**
- **Kubernetes Administration**
- **RSCS Administration**
- **zSPOOL - Spool management**
- **zSEG - DCSS/NSS Backup/Restore**
- **zBACKUP - Backup and Restore**
- **Shared File System (SFS) Management**
- **Virtual Network Management**
- **EDEV Management**
- **System Allocation Management**
  - Manage system Page and Spool space
- **CP Commands to running guests**
- **zVRM\* - Server Resource Manager**

# CoD HMC Management

The screenshot displays two windows from the Velocity software interface. The top window, titled "CPC HMC Configurations CloudDemo", shows a table with two rows of HMC configurations. The bottom window, titled "CPC HMC James\_Test CPC Listing - Context 2", shows a detailed listing for the selected HMC, including various performance and status metrics.

**CPC HMC Configurations CloudDemo**

| Sel                   | HMC Identifier | HMC IP1       | Port | TCP Host | Userid       | Debug |
|-----------------------|----------------|---------------|------|----------|--------------|-------|
| <input type="radio"/> | James_Test     | 192.168.5.125 | 6794 | TCPIP2   | james        | On    |
| <input type="radio"/> | VSI_Datacenter | 192.168.5.125 | 6794 | TCPIP2   | zpro_testing | On    |

**CPC HMC James\_Test CPC Listing - Context 2**

| Sel                   | CPC Name | Status    | OK  | DPM | Overall CPU | Power Watts | Ambient Temp  | Exhaust Temp  | Humidity | Dew Point    | Heat BTU/hr | Time Stamp          |
|-----------------------|----------|-----------|-----|-----|-------------|-------------|---------------|---------------|----------|--------------|-------------|---------------------|
| <input type="radio"/> | P0040F78 | operating | Yes | No  | 50%         | 1201        | 18.9C (66.0F) | 24.8C (76.6F) | 32%      | 9.4C (48.9F) | 4254        | 2024-11-22 12:24:10 |

Buttons at the bottom of the second window: View Logical Partitions, View Capacity Records, View Metrics History, Logoff HMC

# CoD HMC Management

CPC HMC James\_Test CPC Listing - Context 2

Line 1 of 1

| Sel                              | CPC Name | Status    | OK  | DPM | Overall CPU | Power Watts | Ambient Temp  | Exhaust Temp  | Humidity | Dew Point    | Heat BTU/hr | Time Stamp          |
|----------------------------------|----------|-----------|-----|-----|-------------|-------------|---------------|---------------|----------|--------------|-------------|---------------------|
| <input checked="" type="radio"/> | P0040F78 | operating | Yes | No  | 54%         | 1222        | 18.7C (65.7F) | 24.7C (76.5F) | 32%      | 9.4C (48.9F) | 4220        | 2024-11-22 12:25:10 |

CPC HMC James\_Test - P0040F78 Capacity Records

Line 1 of 1  In Use/Available/Maximum

| Sel                   | Record-ID | Type   | Status | Model Active | CPs   | SAPs  | ICFs  | IFLs  | zIIPs | CBPs  | Activated           | Expires             |
|-----------------------|-----------|--------|--------|--------------|-------|-------|-------|-------|-------|-------|---------------------|---------------------|
| <input type="radio"/> | M0040039  | Loaner | Real   | A02          | 1/0/1 | 0/0/0 | 0/0/0 | 4/0/4 | 1/0/1 | 0/0/0 | 2023-05-20 10:18:51 | 2025-05-31 23:59:59 |

# CoD HMC Management

CPC HMC James\_Test - P0040F78 Capacity Records

Line 1 of 1  In Use/Available/Maximum

| Sel                   | Record-ID | Type   | Status | Model Active | CPs   | SAPs  | ICFs  | IFLs  | zIIPs | CBPs  | Activated           | Expires             |
|-----------------------|-----------|--------|--------|--------------|-------|-------|-------|-------|-------|-------|---------------------|---------------------|
| <input type="radio"/> | M0040039  | Loaner | Real   | A02          | 1/0/1 | 0/0/0 | 0/0/0 | 4/0/4 | 1/0/1 | 0/0/0 | 2023-05-20 10:18:51 | 2025-05-31 23:59:59 |

**Remove Capacity P0040F78 - VSIVC1**

Select desired processor counts to reduce from capacity record M0040039

CP Processors - current 1

IFL Processors - current 4

zIIP Processors - current 1

# Scheduled CPC On/Off CoD

List of Scheduled Events

Line 1 of 2
  Queued
  Not Queued
  Paused
  System Event

| Sel                      | Owner | Name      | System | LPAR/Mbr | Date(s)  | Time     | Last Event | End Date | Stop Time | Every    | Within   | Command  | State |
|--------------------------|-------|-----------|--------|----------|----------|----------|------------|----------|-----------|----------|----------|--|-------|
| <input type="checkbox"/> | JAMES | CODADD    | VSIVC1 | VSIVC1   | ==/05/== | 02:00:00 |            | - none - | - none -  | - none - | - none - | ZPRO COD_ADD JAMES_TEST P0040F78 M0040039 if1 1    |       |
| <input type="checkbox"/> | JAMES | CODREMOVE | VSIVC1 | VSIVC1   | ==/05/== | 02:15:00 |            | - none - | - none -  | - none - | - none - | ZPRO COD_REMOVE JAMES_TEST P0040F78 M0040039 if1 1 |       |

  

**Schedule an Eventw/Owner - VSIVC1**

EventName:   
 EventOwner:   
 RunDate(s):   
 EndDate:   
 Days  
 Sunday  
 Monday  
 Tuesday  
 Wednesday  
 Thursday  
 Friday  
 Saturday

StartTime:  :   
 EndTime:  :   
 OccursEvery:  :   
 WithinTime:  :   
 Command:   
 Description:

# Questions / Comments?



Providing software and services to assist customers in optimizing the z/VM platform for more than 35 years!



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or: [maggie@velocitysoftware.com](mailto:maggie@velocitysoftware.com)

zPRO Demo Site: <https://demo.velocitysoftware.com/zpro/>  
Metal to Cloud in Two Days: <https://velocitysoftware.com/MetaltoCloud>

