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

VM Workshop 2018

Velocity Software, Inc

https://www.velocitysoftware.com

Agenda

- Introduction
- zPRO Overview – what it is all about
- Live DEMO
- zPRO in Education of z/VM and Linux
- The Future

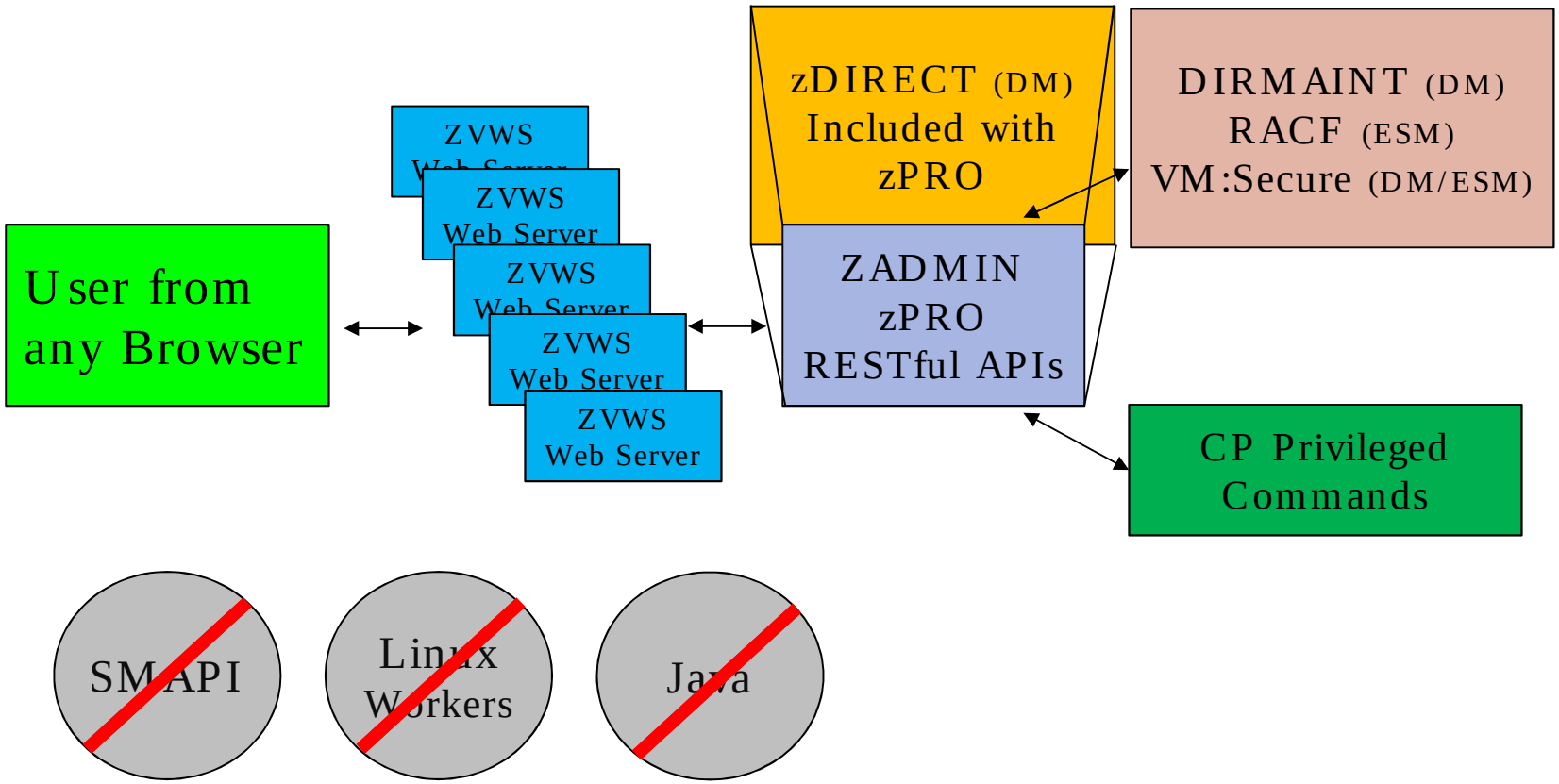
zPRO Overview

I’m often asked,

“How does zPRO work?”

“Quite WELL, thank you!”

zPRO Overview



Why?

- **zPRO leverages the *strengths* of VM**
  - Very dynamic – extensible
  - Enables quick solutioning – both in speed and time
- **Keep it simple, fast, lightweight and reliable**

zPRO Overview

- **zPRO API Library**
  - Browser-based end-user interface
    - All common browsers supported
- **Utilizes the zVWS *native* z/VM web server**
  - No changes required in web server to support zPRO
  - **Installs in about 10 minutes (usually much LESS!)***
- **Supports common directory/security management**
  - zDIRECT with or without RACF
  - DIRMAINT with or without RACF
  - VM:Secure
- **Authentication support**
  - VM / LDAP / AD

zPRO Overview

- **z/VM Cloud Server Management**
  - Clone (provision), modify, start, stop, delete servers
    - Linux w/Oracle, Websphere, etc – any z/VM defined server
  - Define server expirations
    - Useful for LAB, test or proof-of-concept servers
  - Selective resource controls and quota management
  - SSI / LGR (live guest relocation) support
  - Enterprise view of servers*
    - View servers on other nodes
      - even if not in an SSI cluster
        - » Current zTCP and zMON required

zPRO Overview

- **Exceptionally Extensible**
  - Can define and “plug in” site-defined services
- **Give access to non-Sysprog users/groups**
  - No special z/VM authority required for users/groups
  - Define resource boundaries for groups and users
    - Each group and user can use the same or specific
      - Resource Pools
      - Resource Limits – even by server
  - Users manage *their own* resources and servers
    - Can clone and manage their own servers how and when ever they need
      - zPRO ADMIN sets who can do what

zPRO Overview

- **No z/VM system knowledge needed**
  - Fills in for any lack of z/VM skills
    - Do *YOU* need to be concerned about that?!
- **Reduces time**
  - z/VM System Programmer time is freed up
  - Self-service model allows others to provision and manage with defined controls/authorities
- **Empowers others**
  - Unix/Linux admins, Application groups, Operations and more

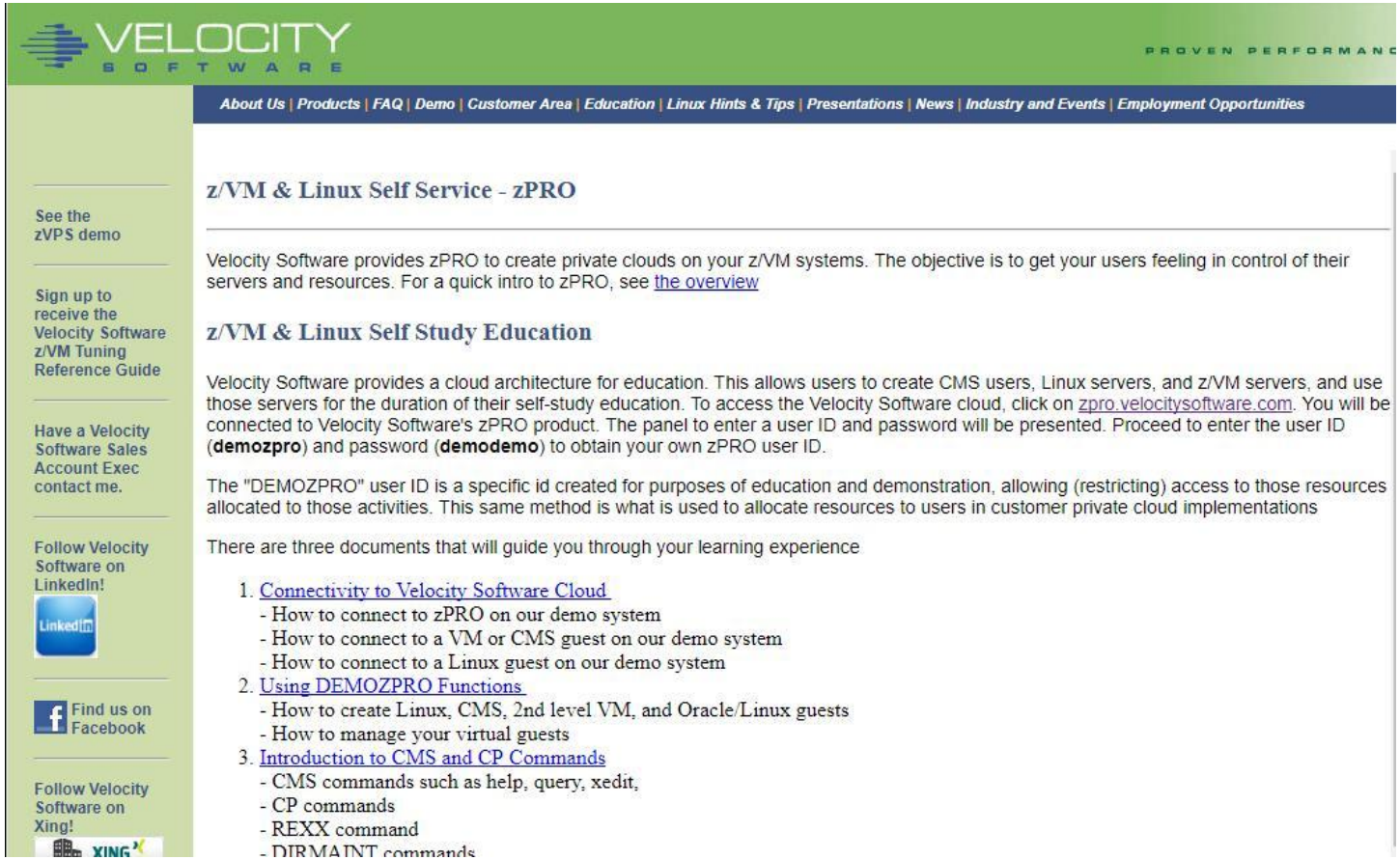
- *And still retains control by the Systems Programmer (and management!)*

Live Demo!

- **Showing lots of cool features…**

zPRO - z/VM & Linux Education

- **https://www.velocitysoftware.com/educate/**



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See the zVPS demo

Sign up to receive the Velocity Software z/VM Tuning Reference Guide

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z/VM & Linux Self Service - zPRO

Velocity Software provides zPRO to create private clouds on your z/VM systems. The objective is to get your users feeling in control of their servers and resources. For a quick intro to zPRO, see the overview

z/VM & Linux Self Study Education

Velocity Software provides a cloud architecture for education. This allows users to create CMS users, Linux servers, and z/VM servers, and use those servers for the duration of their self-study education. To access the Velocity Software cloud, click on zpro.velocitysoftware.com. You will be connected to Velocity Software's zPRO product. The panel to enter a user ID and password will be presented. Proceed to enter the user ID (**demozpro**) and password (**demodemo**) to obtain your own zPRO user ID.

The "DEMOZPRO" user ID is a specific id created for purposes of education and demonstration, allowing (restricting) access to those resources allocated to those activities. This same method is what is used to allocate resources to users in customer private cloud implementations

There are three documents that will guide you through your learning experience

1. Connectivity to Velocity Software Cloud
   - How to connect to zPRO on our demo system
   - How to connect to a VM or CMS guest on our demo system
   - How to connect to a Linux guest on our demo system
2. Using DEMOZPRO Functions
   - How to create Linux, CMS, 2nd level VM, and Oracle/Linux guests
   - How to manage your virtual guests
3. Introduction to CMS and CP Commands
   - CMS commands such as help, query, xedit,
   - CP commands
   - REXX command
   - DIRMAINT commands

Use Case for Education #1

- **North Carolina A&T University**
  - Cameron Seay, Professor

    Computer Systems Technology

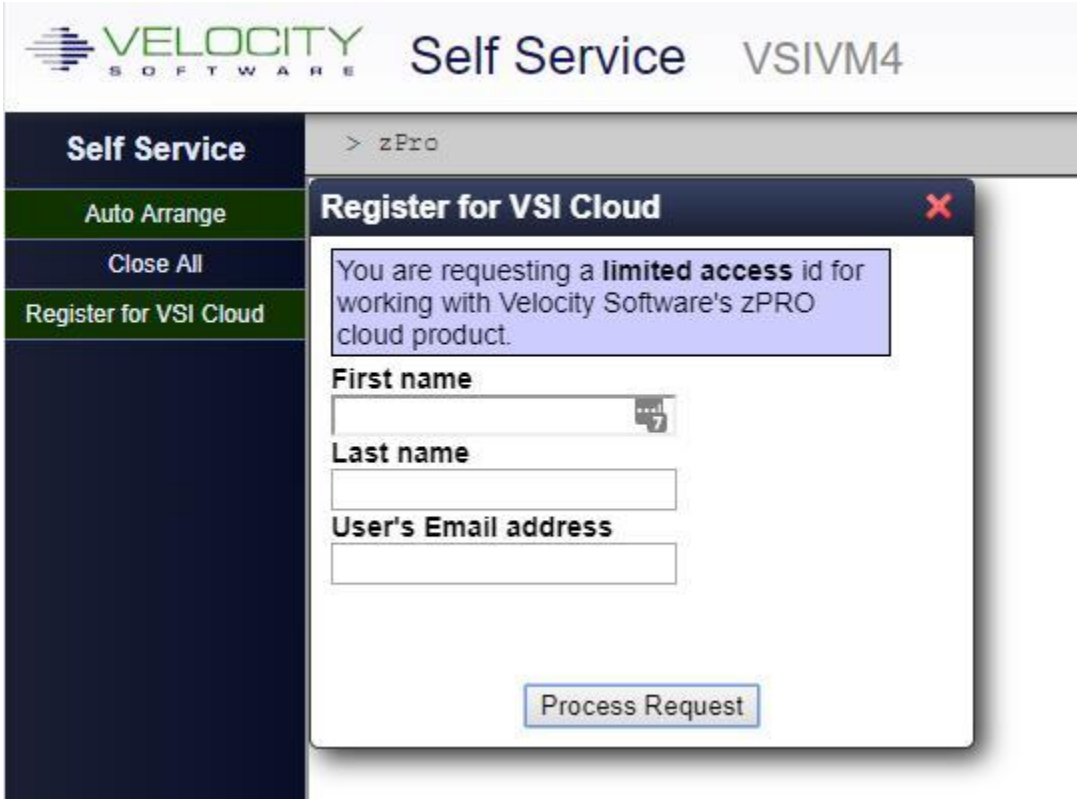
- **Virtualization class**
  - Students given access to build, start, stop and delete their own servers
  - They can logon to the 3270 console to watch the Linux OS boot up
  - All “self service” and requires no special intervention

Use Case for Education #2

- **Mainframe Academy in Switzerland**
  - Teaching z/VM skills
  - Will provision 2nd level z/VM 6.4 systems
  - These educational systems are mostly R/O
    - Plenty of R/W disk available for testing and trying different things, like installing zVPS
  - Email contains access instructions
    - Logon, change the initial password and 'boot' the z/VM system
    - Gives them access to the Stand Alone Loader
    - OPERATOR, AUTOLOG1 (and more) are available to modify

zPRO Cloud Demo Site

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



zPRO futures

- Full RH kickstart support
- Catalog for Gold Images
- Resource Management Reports
- Added z/VM controls (RACF, SFS, Spool, etc)
- Enterprise control (Cross Origin Resource Sharing)
- Open and complete API support
- UI smoother, cleaner, faster
- Command-line interface for zDIRECT
- MUCH more!

zPRO Summary

VM based solid front-end + powerful +
easy to use + proven performance

zPRO

- - -

To *(mostly)* quote a fellow z/VM Systems Programmer:

“zPRO takes the suck factor of my job way down”

MG

Questions / Comments?

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