CA Linux on System z Strategy and Future Roadmap

Abstract

This session will provide an update on how CA Management Solutions for Linux on System z provide holistic monitoring, management and protection of Linux on System z and z/VM environments, including partner products – Velocity zVPS Performance Suite and UPSTREAM for Linux on System z . We will discuss how integration with cross-platform solutions can help reduce costs and improve operational of consolidating workloads to Linux on System z as part of a hybrid computing environment.

Abstract

Agenda

— High level strategy and roadmap

— VM:Manager Suite enhancement backlog

— GUI enhancements

— AppLogic for System z

Agenda

Linux on System z overall strategy

— Simplify the management and security of Linux on System z with a management suite

  – Deliver a management and security suite for Linux on System z that can be managed by both mainframe and distributed staffs

  – Empower customers with the ability to consolidate distributed Linux servers onto Linux on System z

— Make Linux on System z a cost-effective choice for customers

  – deliver a full lifecycle management solution for Linux on System z

— Agility delivered

  – allow clients to quickly deliver capacity on demand with Linux on System z

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Linux on System z overall strategy

Roadmap Overview

— Day One support for future z/VM and Linux on System z distributions

— Further Exploitation of z/VM Single System Image

— Deliver additional products in IBM VMSES/E format in support of CA's Next-Generation Mainframe Management strategy
  – CA Dynam/T Tape Management for z/VM
  – CA VM:XMENU
  – CA VTERM
  – CA Top Secret and CA ACF2

— Deliver enhancements to improve Linux guest management and as a foundation for Cloud solutions

— Deliver enhancements in response to customer demand

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Roadmap Overview

Improve capability to manage Linux on System z guests

— Integration of zVPS and UPSTREAM for Linux on System z with CA VM:Manager Suite to enhance management of z/VM and Linux on System z environments
  – modernize the user interfaces
  – simplify reporting capabilities
  – Automate and simplify Linux on System z provisioning

— CA VM:Operator enhancements to allow simpler and more secure automated management of Linux on System z guests

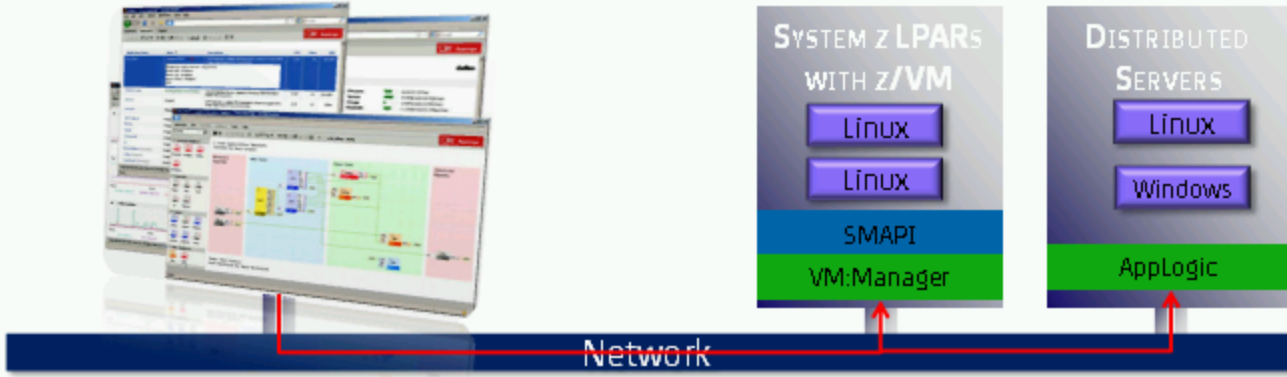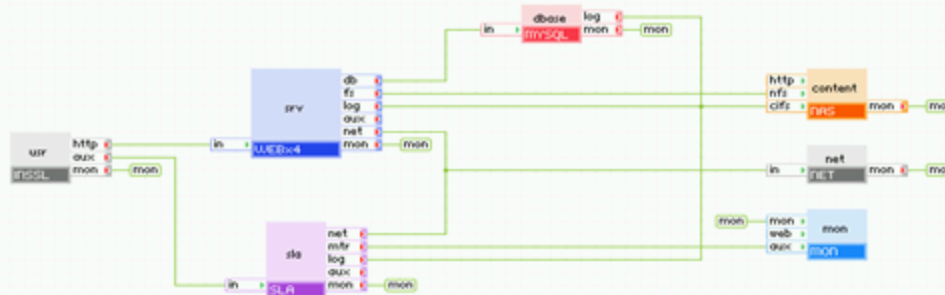Improve capability to manage Linux on System z guests

CA AppLogic® – what is it?

CA AppLogic for Mainframe
use cases for mainframe as part of a cloud strategy

— Focus on managing complete services, in a scalable, dynamic way

— Initial target use cases:

- Migrating distributed workloads to Linux on System z
  - Candidates are those that connect to z/OS

- Creating new workloads on System z

- Allow use of Compound Services that cross platforms

- The combination of low cost, massive scalability, reduction in network and hardware needs is driving re-hosting efforts across many customers. CA AppLogic can be an accelerator of these trends by removing technical and political barriers.

- In general, use of the mainframe platform as a cloud delivery platform

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CA AppLogic for Mainframe use cases for mainframe as part of a cloud strategy

Enhancing AppLogic to support z/VM as a hosted platform

CA AppLogic encompassing Linux on System z and z/OS

VM:Manager Suite possible enhancements

— Support for SMAPI changes, including functions supporting URM

- Working with IBM to improve overall design, our ability to support

– Integration with partner products – Velocity, Upstream

- Scope TBD

— Repackage VM:Manager products managed using Activator to be installed/maintained using IBM VMSES/E

- CA Top Secret for z/VM
- CA ACF2 for z/VM
- CA Dynam/T for z/VM

— Convert CA Dynam/T for VM to VM Common Nucleus

— Common user interface (GUI)

VM:Manager Suite possible enhancements

VM:Manager Suite
possible enhancements (continued)

— CA VM:Operator Additional interfaces to our OS products like NSM and OPS/MVS

— CA VM:Secure support for cross-platform/cross-product security:
  - LDAP/PAM client support
  - Synchronization of passwords with other VM systems, with z/OS, etc.
  - Integrate with CA Access Control, SiteMinder, Audit -- single sign-on

— z/VM Single System Image (SSI) exploitation
  - CA VM:Schedule – Shared database with one VM:Schedule managing all nodes in the SSI complex
  - CA VM:Account – Overall view of accounting data across the SSI complex
  - CA Explore for z/VM – Add support for additional records, provide single performance view of the SSI complex

VM:Manager Suite possible enhancements (continued)

VM:Manager Suite
possible enhancements (continued)

— CA VM:Backup HiDRO Feature enhancements:

  • Satisfy DARs for increasing max number of EXCEPT statements, support creation of "twin" backup tapes.

— Enhance CA VM:Backup's DASDTAPE and Media Copy features

  • Improve DASDTAPE feature or possibly develop new, separate product

  • Improve DASDTAPE I/O

  • Improve DASDTAPE expiration

  • Provide checkpoint restart feature in Media Copy feature

— VM:Account enhancements

  • Track usage on Linux guests based on current project and package accounting capabilities and provide chargeback

  • Convert to VM Common Nucleus – infrastructure improvement

  • Support for zSeries CMS

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VM:Manager Suite possible enhancements (continued)

VM:Manager Suite
possible enhancements (continued)

— CA VM:Schedule - Convert to VM Common Nucleus

— CA VM:Batch – Convert to VM Common Nucleus and add support for z/Series CMS

— Common configuration method for all VM:Manager products
  • Possible centralized configuration interface

— CA VM:Backup DARs
  • Improve restore performance
  • Automate VM:Tape TMC update

— CA VM:Operator enhancements:
  • Improve CMS command locking
  • Support duplicate consoles
  • Improve initialization messages
  • Enhancements to restart procedures
  • Provide action routine trigger details

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VM:Manager Suite possible enhancements (continued)

**VM:Manager Suite
possible enhancements (continued)**

— CA VM:Secure – Create journal entries for password changes

— CA VM:Tape – Interface to CA Dynam/T for VSE

— CA VM:Batch – Support devices above 3590

— CA VTERM and CA Xmenu – repackage for IBM VMSES/E inst
and maint

VM:Manager Suite possible enhancements (continued)

Questions ???

Questions ???

Velocity zVPS Performance Suite possible integrations

— VM:Secure and VM:Director
  - Provide interface for dynamic creation of zVPS virtual machines during installation
  - zVPS currently provides support for IBM DIRMAINT
  - Minimally provide scripts until features can be developed into zVPS installer

— Top Secret, ACF2 and VM:Secure
  - Provide interface to dynamically define security policies for zVPS virtual machines during installation
  - zVPS currently provides supports RACF
  - Minimally provide scripts until features can be developed into zVPS installer

— VM:Operator
  - Current integration involves messaging OPERATOR from zVPS
  - Provide MONALERT file with standard alerting format for VM:Operator (and possibly a MONALERT for SPECTRUM traps)
  - Policy package for with routing tables, default actions and scripting based on a best practices guide

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Velocity zVPS Performance Suite possible integrations

Velocity zVPS Performance Suite possible integrations (continued)

— VM:Account

- Collecting zLinux performance metrics from zVPS

— Wily APM

- Integrate zVPS performance and status metrics as an agent to APM's Enterprise Manager and workstation

— SYSVIEW

- Integrate zVPS performance data and metric directly into SYSVIEW to be competitive with BMC's MAINVIEW for z/OS and IBM's OMEGAMON for z/OS that supports zLinux via agent.

- Perhaps we use these metrics to feed Wily APM?

Velocity zVPS Performance Suite possible integrations (continued)

Velocity zVPS Performance Suite possible integrations (continued)

— VM:Manager Suite for Linux on System z

    – Consider zVWS and zVPS PORTAL for web based user interfaces

— Chorus for Mainframe

    – Integration of zVPS performance data into Chorus Role(s)

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Velocity zVPS Performance Suite possible integrations (continued)

UPSTREAM for Linux on System z possible integrations

— Vantage SRM
  - Integrate UPSTREAM backup details and status for zLinux

— Chorus for Mainframe
  - Integration of UPSTREAM into Storage Role
  - May be able to obtain from Vantage integration

— OPS/MVS and SOLVE:Operations
  - Policy package for UPSTREAM Storage Server events based on best practices guide

UPSTREAM for Linux on System z possible integrations