CA AppLogic® for System z

12487: Using AppLogic for System z to Leverage Your Mainframe in the Private Cloud

Andrew M Chapman
Scott A Fagen
agenda

- Who is this session for?
- High-level product overview
- What’s the business problem we are solving?
- Product deep-dive and use case
- Product benefits
- AppLogic and the System z ecosystem
Who cares?

- Forced to do more with less?
- Under pressure to increase speed through the application life cycle?
- Want control over what software is running in your environment?
  - Who is deploying what and what is running where?
- Need to increase Service Level Objectives without increasing costs?
- Using Linux on System z and need help to deploy and manage?
- Ready to roll out Linux on System z and need more efficient tool?
- Managed Service Provider looking to increase profits?
- Competitors who wish their products were this cool?
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CA AppLogic® – what is it?

AppLogic – It’s all about Linux on System z Applications

Design
Provision
Assign resources
Manage components
De-commission

"Without AppLogic, I have to have a golden image, it has to have a public IP address. I have to create the user directory, copy the minidisks, set up vswitch authorization, run it, configure networking and passwords, and if I forget an important step I have to debug and iterate. That is if I have a golden image. If I don’t, I have to install the thing from scratch which takes hours.", Beta Tester
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is this the cloud?

If you want...
why Linux on System z?

Highly available, cost effective, scalable, secure and agile

- A system zEC12 or z196 can hosts dozens of AppLogic grids, each with hundreds or thousands of virtual appliances.

- Replace hundreds of power hogging distributed servers and their associated network fabric.

- Reduction of software license and hardware acquisition costs.

- Easy and efficient connectivity to z/OS resident application and database servers.

- OOTB Mainframe capabilities: highly available, extremely secure, robust and scalable.
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sample application: Call Center Information System
Public facing, web based application: aggregates CICS data

Browser Interface
Firewall
Load Balancer
Web Servers and App Servers
Storage
Lots of cabling

...and operations staff!
using AppLogic® for System z

- Browser Interface
- Firewall
- Load Balancer
- Web Servers and App Servers
- Storage

No cabling, just graphical lines
but what is it really?

- System Dashboard - Applications Tab
- Infrastructure Editor – Catalog
- Infrastructure Editor – Appliances Instances
- z/OS Service End Point
- Virtual network connections
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Need more appliances?
Visit Cloud Commons & download
Build your own
Create empty Linux VM within AppLogic
Install selected software
Create descriptor file to map config to AppLogic

Component name

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but what is it really?
Infrastructure Editor – Appliances Instances

Scaling of a VoIP cluster. In this example, the udp_roundrobin mode of operation is used.

Notes
Open source and third-party software used inside of the appliance

L3LB uses the following third-party open source packages in addition to the third-party open source packages used by its base class LUX64.

- haproxy-1.4.19-1.cl6.ca.s390x.rpm
- php-httpd-2.25b-24.cl6_5.3.3.ca.s390x.rpm
- perl-Time-HiRes-1.9721-119.cl6_1.1.s390x.rpm
- php-common-5.3.3-3.cl6_2.8.s390x.rpm
- php-embedded-5.3.3-3.cl6_2.8.s390x.rpm

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4 Disagree
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Five certified z/OS subsystems:
1. IBM IMS
2. CA Datacom
3. CA IDMS
4. IBM DB2
5. IBM CICS

Or just roll your own…
but what is it really?
Virtual network connections

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what else does AppLogic® for System z provide?

- **More Agility for Enterprises, build and deploy apps in minutes!**
  - Deliver appropriate platform for SLO
  - On-demand elasticity and flexibility
  - IT manages the environment but development manages the applications

- **Self-validating deployments**

- **Resource Management**
  - Migrate between LPARS

- **Appliance Management**
  - Easy to construct “next” instances of appliances from the current versions
  - Easy to move appliances/applications from one grid to another

- **Recovery techniques**
  - HA, disk mirroring, etc. can be designed into the appliance/application implementation as policy

- **Ability to Build Services for MSPs**
  - Build new services that drive revenue in a commodity market.
  - Instantly replicate custom services for other customers
  - Migrate entire apps instantly
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AppLogic® for System z
the bigger picture
Thank you