CA Investments in Linux for System z

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June, 2014

technologies

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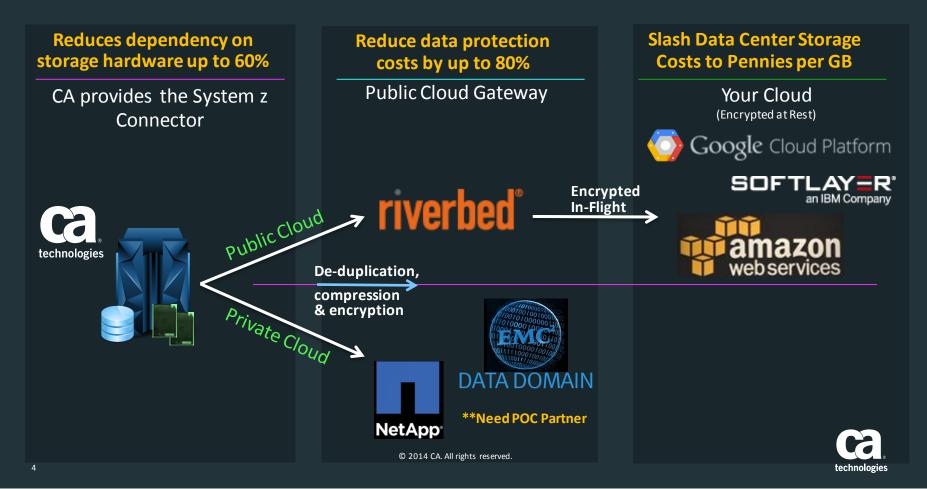
CA Cloud Storage for System z Value. Innovation. Compelling.

June, 2014

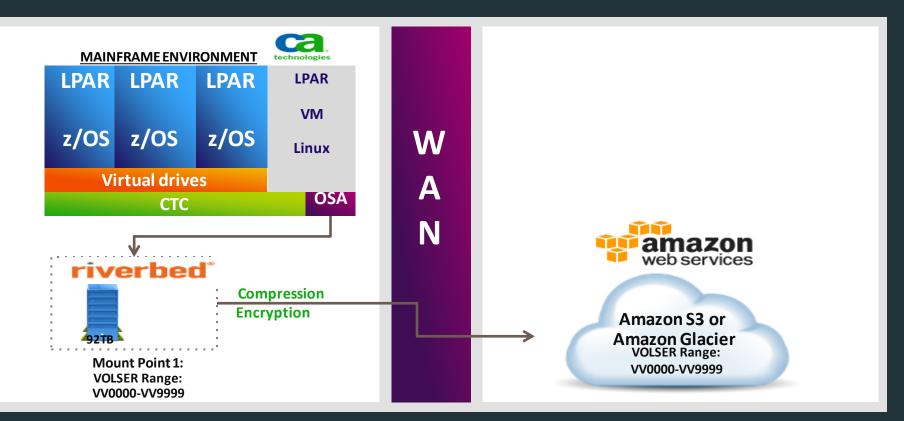
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CA Cloud Storage Solution Overview



CA Cloud Storage Solution Overview





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CA Innovation in z/VM and Linux on z

- It's an exciting time for us....
- New development methodology
- Customer focused, customer driven



VM:Backup

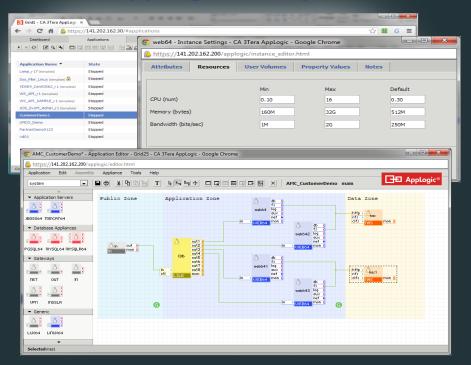
- Innovation development on-going 4Q release
 - Fully documented and supported XRESTORE command
 - Restore deleted filespace
 - TEST and REPORT options added
 - DASDtape QUERY, LIST, and STATUS command
 - DASD scratch facility

... and more



Simplify Linux on System z and accelerate mainframe cloud

CA AppLogic[®] for System z



Quickly design, provision and manage cloud applications on System z

Reduce costs and increase efficiency

- Host thousands of Linux on System z applications on a single zEnterprise server
- Replaces need for hundreds of distributed servers and their required network fabric

Easily connect to z/OS transactions and databases

Self-service provisioning on System z combines cost reduction and agility with massive scalability and reliability



Guest Manager

- New feature of AppLogic for System z r3.7
- Beginning of a modernized VM:Manager
- Why?
 - First "prepackaged application" that delivers immediate value
 - Provide modern, web based interface to z/VM system management
 - Address constrained z/VM expertise and the steep learning curve



What can Guest Manager do?

- z/VM Guest Management for the non-z/VM operator
 - View/sort list of all z/VM guests
 - View details of z/VM guests
 - View guest console logs
 - Conduct actions on z/VM guests
 - Role based access to view/manage guests

Modern, web based interface for z/VM that anyone can use



Guest Manager - Dashboard

Ca VM:Guest Manager Logged in as melmi11 | Logout | Help Last Refresh 0 • Refresh Interval (mins) z/VM System \$ Total: 466 guests Clear Filters Save Session Settings 6/2/2014 12:36:14 PM Guest ID OS Type Hostname & IP Address Logon Type ACI Group Logs -State System Account Filter for G Select st V Select system.. • Select Hostname & IP address. Select Logon Type. . Select OS.. V Select ACI Group. Select Account... V Ê ALDOGA ssa-April Linux fe80:0:0:0:200:c200:100:10 APPLOGIC Running ZTBUILD Running ssa-April Linux 141.202.162.6 BUILD Î ALDOSUSE Running ssa-April Linux Select preferred APPLOGIC APRRH61 Running Linux 141.202.162.17 QA ssa-April CMS E SCHD008 Stopped ssa-April SCHRH61 Processing Linux 141.202.162.25 ssa-April E) **ZTBOOT** Stopped ssa-April BUILD 99999999 Stopped E **TESTAUTO** ssa-April CMS AUTOONLY Ê HEADO01 Stopped ssa-April CMS DEV2 E MARED02 Stopped CMS QA 999999999 ssa-April Running Linux Select preferred AL030002 ssa-April ALVNP31 LBYONLY Stopped ssa-April Select preferred 99999999 SSA2 Stopped ssa-April Linux **ALVNPBK** ssa-April Linux Select preferred Stopped

i 6/2/2014 2:46:53 PM Recycle operation initiated on VM SCHRH61

ï 6/2/2014 2:46:12 PM VM SCHRH61 started successfully

ī 6/2/2014 2:45:40 PM Recycle operation initiated on VM APRRH61

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Guest Manager - Guest Details

Ca	Guest: TC	PIP					
Gu	est Details Co	onsole Logs					
¢	Last Refresh 6/2/2014 12:36	5:24 PM				0	Refresh Interval (mins)
- Co	onfiguration						
St AC O L C Pr Z' Ef St) pril one otEnabled	- Tags				
0	IP Address	Hostname	MAC Address	VLAN ID	Networks	•	
0	141.202.36.53	usildavb.ca.com.	02:00:c2:00:00:08	0001	VSWITCH INTRA3 LAYER 3 USERBASED UPLINK NONE QDIO VLAN UNAWARE	6	
۲	141.202.162.53	usildavb-alt.ca.com.	02:00:c2:00:00:09	0001	VSWITCH INTRA1 LAYER 3 USERBASED UPLINK TCPIPOSA QDIO VLAN UNAWARE	4273	



Guest Manager - View Guest Console Logs

Guest:	SCHRH61	Guest
Guest Details C	onsole Logs	
Start 06/01/2014	15:16 End: 06/02/2014 15:16 Image: Control of the state of th	P
2014-06-02 15:16:02	Bringing up interface eth0: 8021q: adding VLAN 0 to HW filter on device eth0	
2014-06-02 15:16:06	[OK	
2014-06-02 15:16:06	Starting system logger: [OK	
2014-06-02 15:16:06	Starting rpcbind: [OK	
2014-06-02 15:16:06	Starting NFS statd: [OK]	
2014-06-02 15:16:06	Starting RPC idmapd: RPC: Registered udp transport module.	
2014-06-02 15:16:06	RPC: Registered tcp transport module.	
2014-06-02 15:16:06	RPC: Registered tcp NFSv4.1 backchannel transport module.	
2014-06-02 15:16:11	[OK]	
2014-06-02 15:16:11	Mounting other filesystems: [OK]	
2014-06-02 15:16:11	Retrigger failed udev events[OK	
2014-06-02 15:16:11	Starting sshd:	
2014-06-02 15:16:11	[OK]	
2014-06-02 15:16:11	Starting cpi: [OK	
2014-06-02 15:16:11	Starting postfix:	
2014-06-02 15:16:12	[OK]	
2014-06-02 15:16:12	Starting crond: [OK	
2014-06-02 15:16:12	Starting rhsmcertd 240[OK	
2014-06-02 15:16:12	chgrp: invalid group: 'vmcp'	
2014-06-02 15:16:12	<esc>c</esc>	
2014-06-02 15:16:12	Red Hat Enterprise Linux Server release 6.1 (Santiago)	
2014-06-02 15:16:12	Kernel 2.6.32-131.0.15.el6.s390x on an s390x	
2014-06-02 15:16:12	schrh61 login:	

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Guest Manager - Guest Actions

Ca VM:Guest Manager											
\$ 6	_ast Re 5/2/201 PM	efresh 4 12:36:	14 0 R((mins)	efresh Interval	z/VM System	Total: 46					
Logs -	Gues	t ID	State	System	OS Type	Hostname & IP Address					
	Filter	r for	Select •	Select syste	Select O!	Select Hostname & IP addres:					
1	ALDO	DGA	Running	ssa-April	Linux	fe80:0:0:0:200:c200:100:10					
Ê	ZTBUILD		Running	ssa-April	Linux	141.202.162.6					
	ALDO	DSUSE	Running	ssa-April	Linux	Select preferred					
Ê	APR		(Theorem	ssa-April	Linux	141.202.162.17					
	SCH Guest		: APRRH61	ssa-April	CMS						
Ê	SCH	Start		ssa-April	Linux	141.202.162.25					
	ZTBC Stop			ssa-April							
Ê	TES		-	ssa-April	CMS						
	HEAL Consol		e Log	ssa-April	CMS						
- M	MARED02		Stopped	ssa-April	CMS						



What's next?

- Continue investing in VM:Manager
- Increased functionality of Guest Manager
- Additional prepackaged applications

Customer driven



For More Information please contact...

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