

Red Hat Solutions for System z



MISSION STATEMENT:

TO BE THE CATALYST IN COMMUNITIES OF CUSTOMERS, CONTRIBUTORS, AND PARTNERS CREATING BETTER TECHNOLOGY THE OPEN SOURCE WAY.



Red Hat: Global View

- \$653 million dollars of revenue in FY09
- 25% revenue growth year-over-year
- 2900+ people in 29 countries, 67 offices (+25%)
- \$800+ million in cash & investments
- \$0 debt



Red Hat: System z View

- Red Hat Fiscal Years (global view)
 - 2005: +227%
 - 2006: +331%
 - 2007: +256%
 - 2008: +269%
 - 2009: Announcing 25-MAR



Red Hat's System z Mission

- Create & Expand Linux on System z Communities
- Innovate Linux on System z Technology
 Embrace "Linux is Linux"
- Demonstrate higher efficiencies (economical, technical, processes) when deploying on System z



Expand the Community

- Through Sales
 - North American Government is 30% of global installation base





Expand the Community

Through Sales



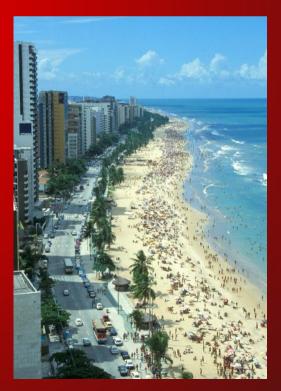














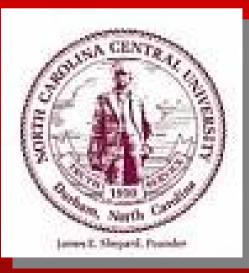
Expand the Community

- Through Training & Academia
 - Undergraduate programs









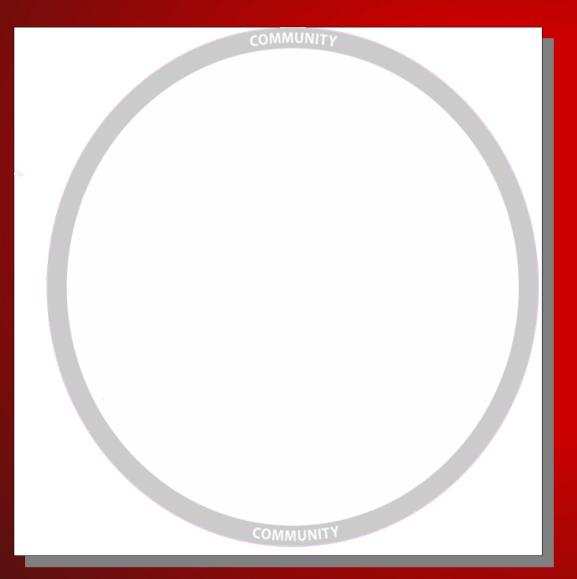


State University of New York





Innovate the Technology

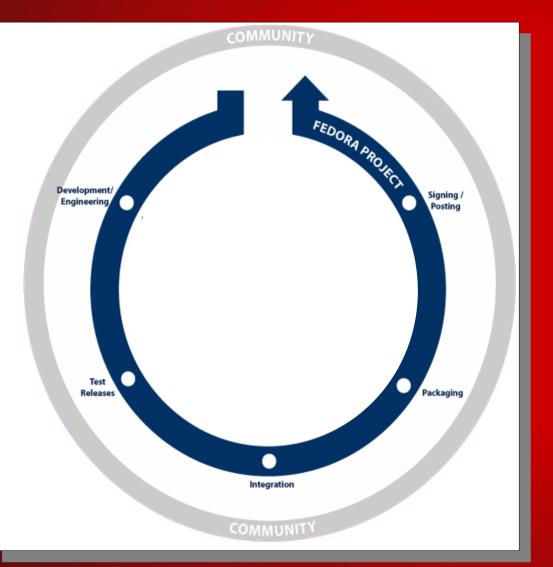


COMMUNITY

- Development with "upstream communities"
- Kernel, glibc, Apache, etc
- Collaboration with open source community; individuals, business partners, customers



Innovate the Technology

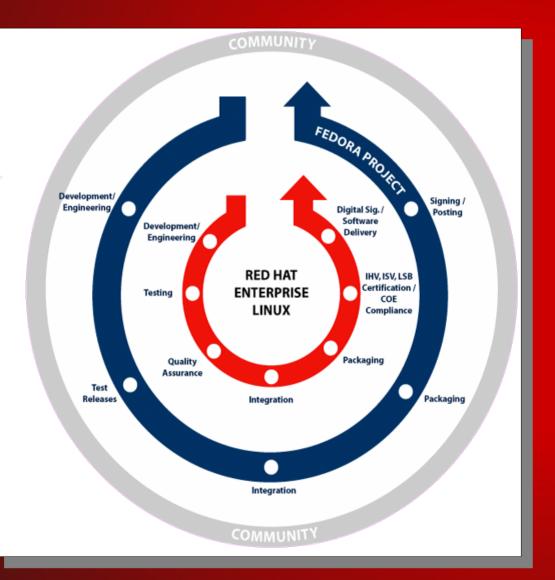


FEDORA

- Bleeding edge
- Sets technology direction for RHEL
- Community supported
- Released ~6mo cycles
- Fedora 8,9,10 = RHEL6

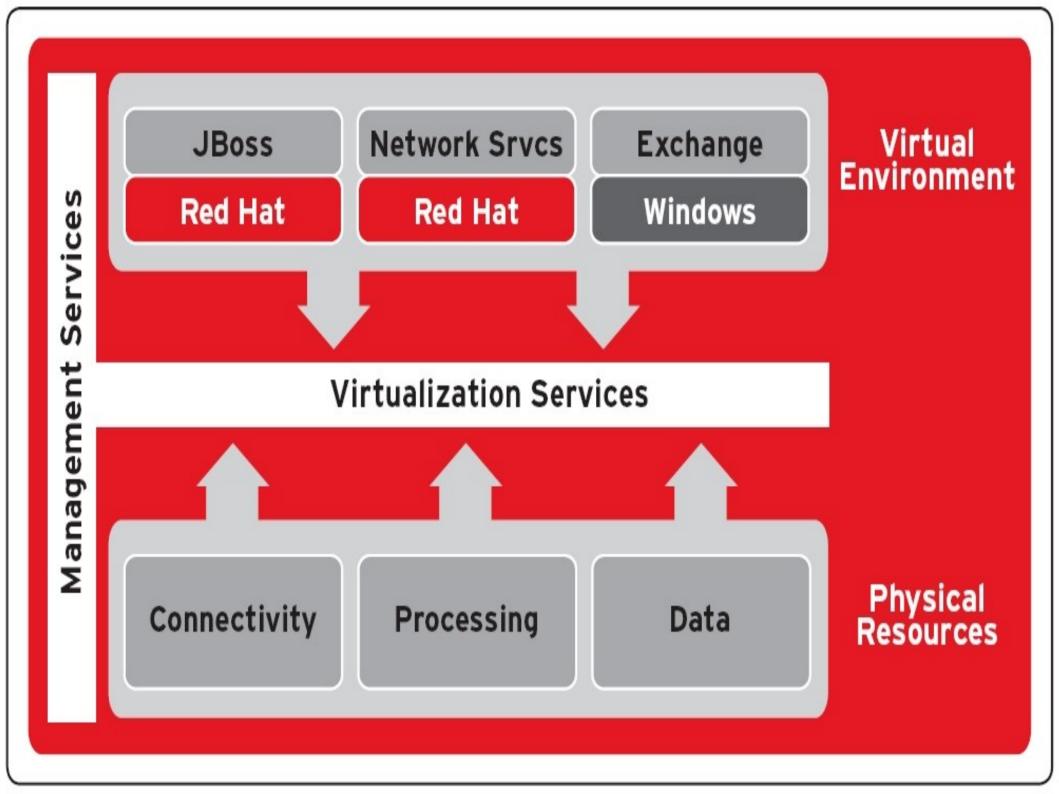


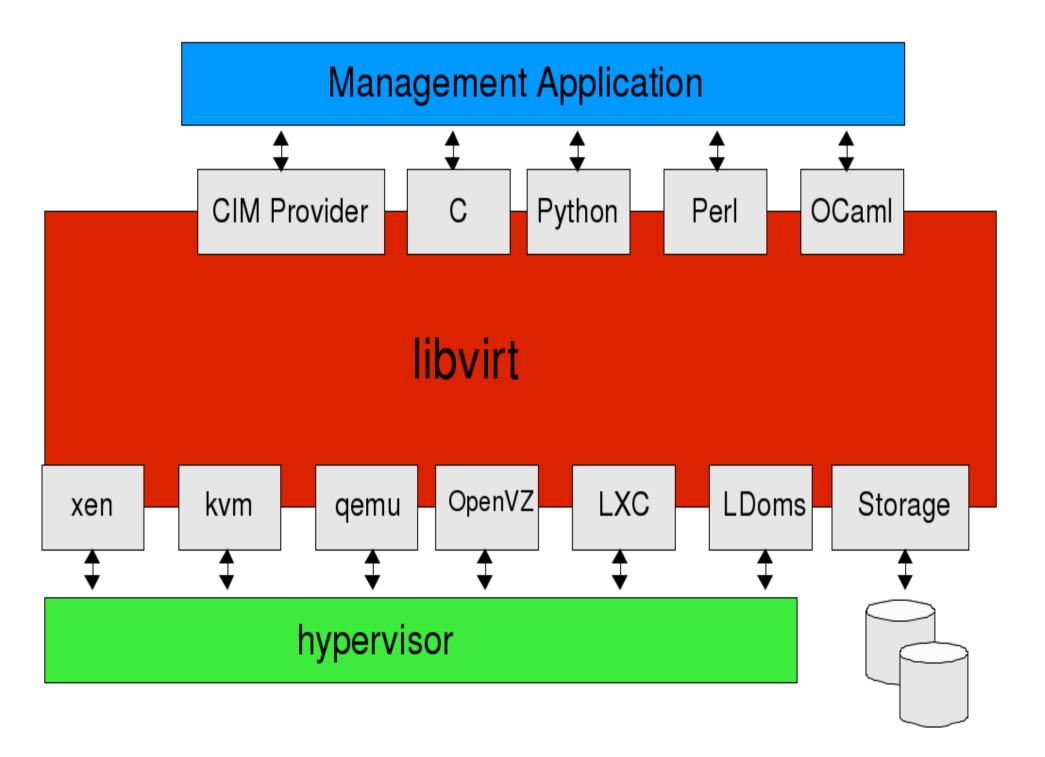
Innovate the Technology



RHEL

- Stable, matured
- Q&A, testing
- H/W & S/W Certifications
- 7yr maintenance
- Core ABI compatibility
- Major releases 2-3yr cycle



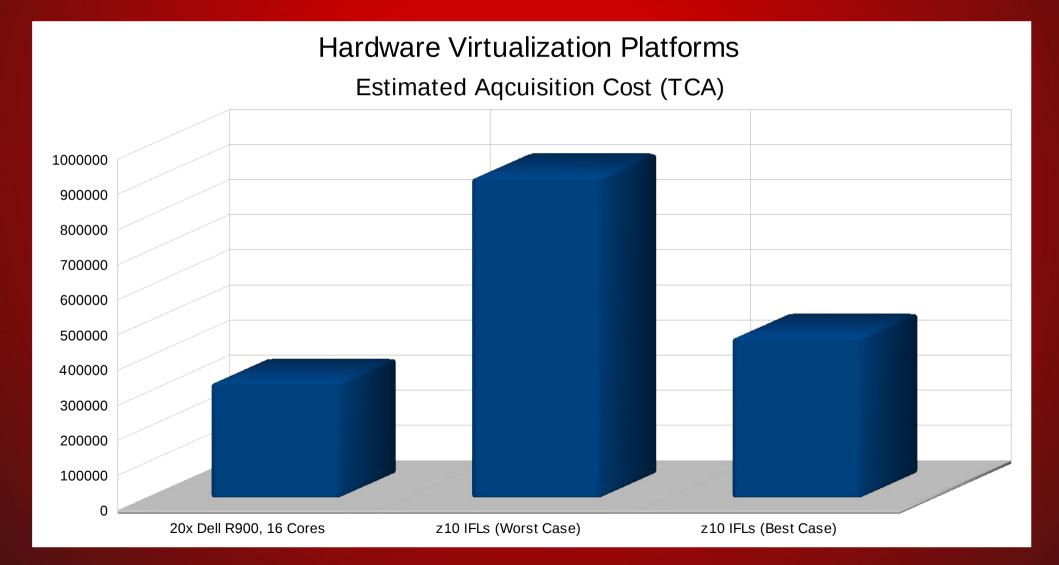




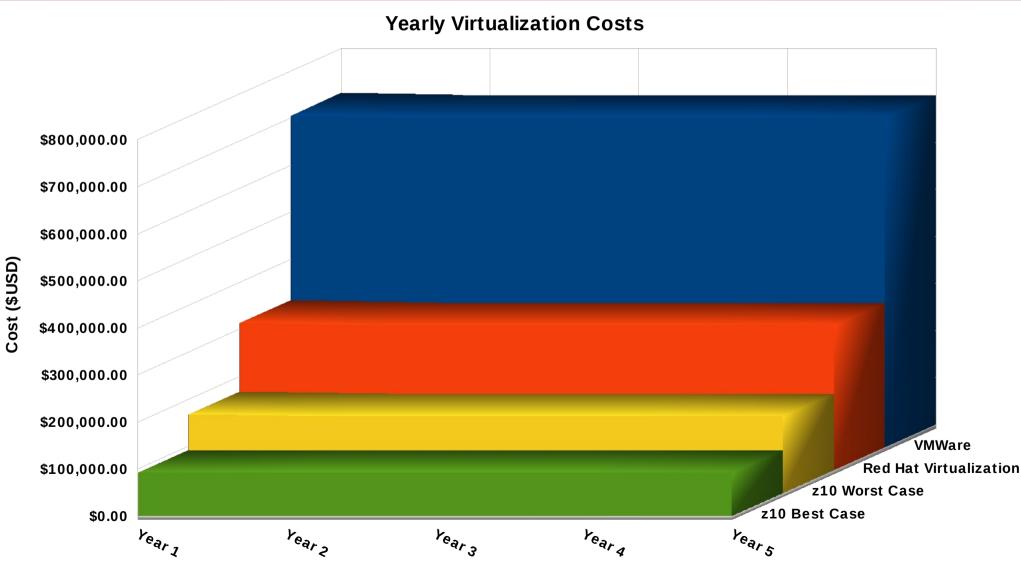
• DC Government Agency was evaluating future Virtualization strategy:

- Dell & VMWare & RHEL
- Dell & Red Hat Virtualization
- System z & Red Hat







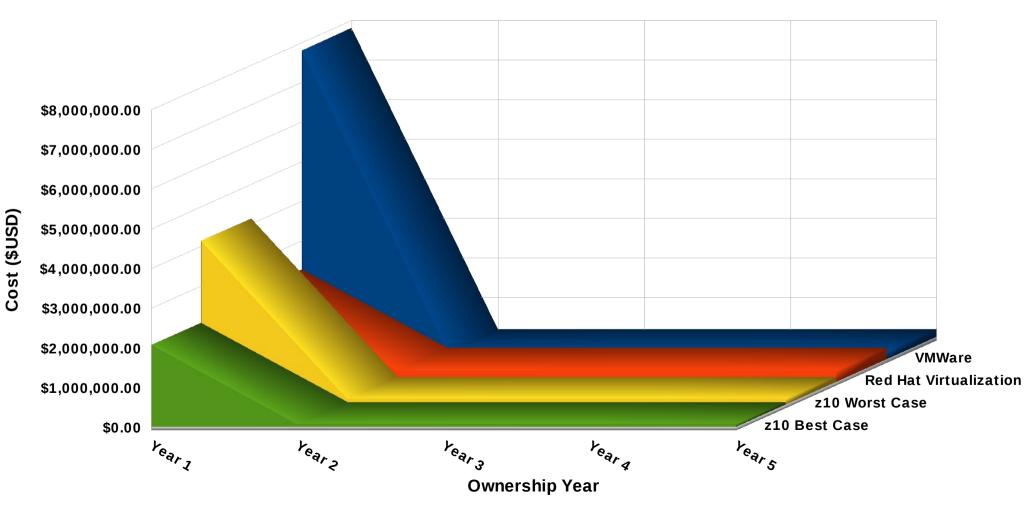


Ownership Year

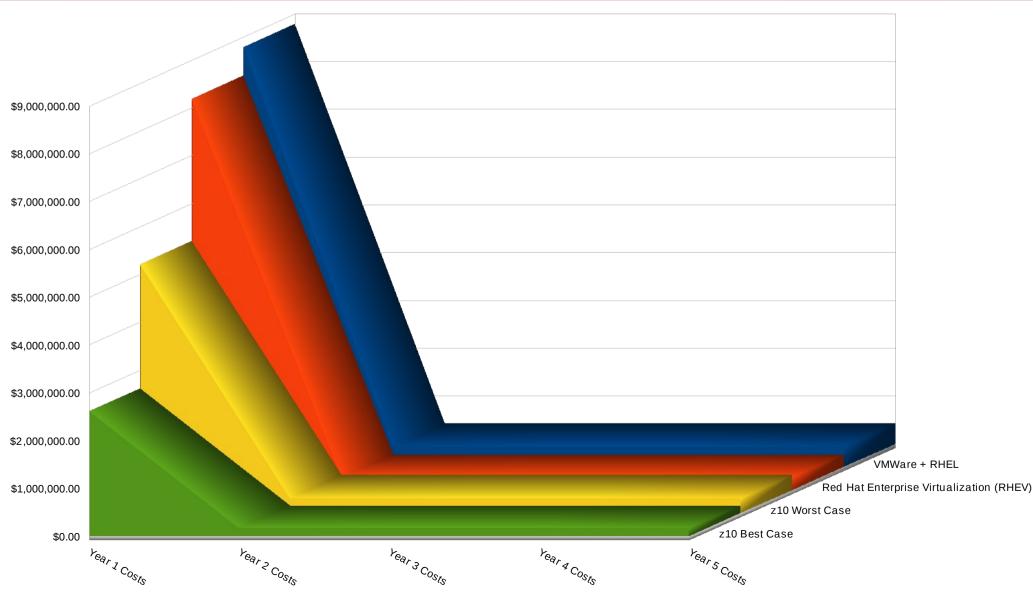


Oracle DB Costs

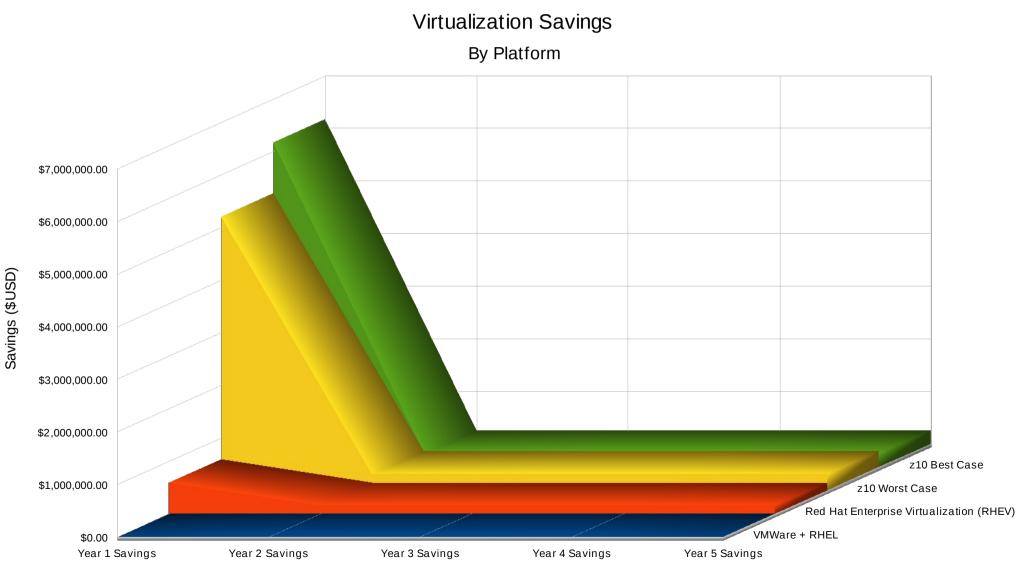
By Virtualization Platform











Ownership Year



Apendix



Customer Story: The Bank of New Zealand

Bank of New Zealand

- Employs 5000 staff
- Acquired by NAB group in 1992
- >2 million accounts
- 700k customers
- ~100 retail banking products
- 185 Branch Sites
- 300 IT Staff



First Computer 1966 (an IBM 360/30 with 16k memory)



Our Key IT Challenges

Data Centre's

- Power Cant get enough power (now monitoring watts)
- Space One server in -> One server out
- Moving out of our Wellington Data Centre (Production)

Focus on IT Costs

- Challenged with keeping IT costs flat
- Less appetite for IT spend during a downturn

Corporate Values

- Carbon Neutral as an organisation by 2010
- Aligning our IT infrastructure with our corporate 'green' values

The Amazing Race Programme



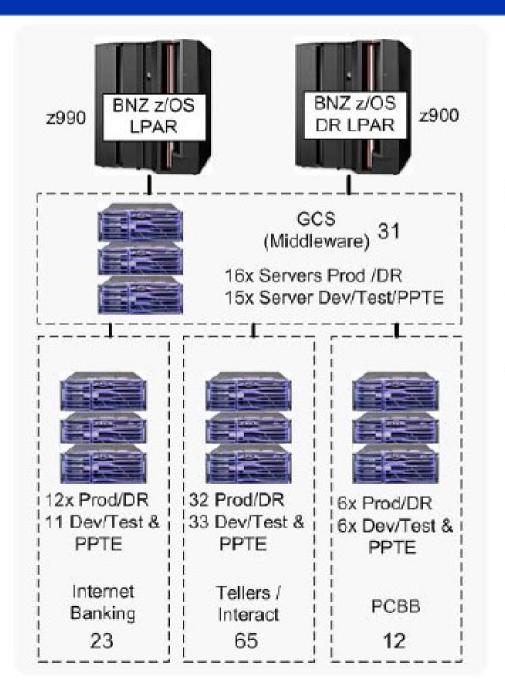
z/Linux Project – Front End Systems

- Repatriate back to NZ (reduce support costs)
- Consolidate the physical footprint
- Reduce power consumption
- Reduce carbon footprint
- Look to simplify where possible



Aug 07	 Proof of Concept of Process Server as replacement to ROMA middleware IBM Forum conference in Wellington 		
Oct 07	 Initial Due diligence carried out for a move to the z/Linux platform 		
Dec 07	 Websphere Process Server software stack verified for performance Purchased Z9-EC + DS Enterprise Storage DS8100 		
Jan 08	- z/Linux Project Officially launched		
Feb 08	 Held joint IBM / BNZ design workshops Purchased Z10-EC + DS Enterprise Storage DS8100 		
Mar 08	- GCS Team (Middleware) run Proof of Concept on the z Platform		
Apr 08	- Application teams start to build Dev, Test & Pre-Prod Lpars on the z9		
Jun 08	- Staff training for the Enterprise Storage / replication		
Jul 08	 GCS went into production on the z10 for a couple of non tier-1 apps 		
Dec 08	- z Platform standup complete. (Ready for tier-1applications)		
Mar 09	- Tellers and Interact applications in Production		
May 09	- Internet Banking applications in Production		
Oct 09	- PCBB application in Production?		

Front End Systems – Hardware View



- Total of 131 Servers
- Mix of Small, Medium and Large Sun Servers - e10K,v440, 280R
- Not a large consolidation but is high value, high visibility.
- Various version's of Solaris.

	Distributed Model	Z based Platform	
Power (kWhr)	36	22	38% less
Heat (kBTUs /hr)	110	74	33% less
Space (Racks)	6.5	4.5	31% less
Co2 (Tonnes)	66	40	39% less*