

Virtualize-2-Modernize

Solaris 2.6 + 7 applications run unchanged on 9 + 10



Virtualize-2-Modernize Introductions

- AppZero – application virtualization software vendor
 - Server applications (Solaris, Linux, Windows) and Windows desktop
 - Founded in 2006 – Solaris application virtualization first product
 - Patented and field-proven software
 - Valerie O’Connell – VP Business Development
 - Greg O’Connor – CEO; serial innovator (‘father’ of ESB)
- Virtualize-2-Modernize – 30 minutes total
 - Value proposition = modernizing Solaris 2.6 and 7
 - Solution basics with detailed how-to in follow-on webinar April 7th
 - Q&A and FAQs

What we hear about Solaris 2.6 and 7 apps

- Applications sit in the corner with a “Don’t Touch” sign
 - Undocumented, unsupported, and fragile
 - “Don’t break it because we don’t know how to fix it.”
- Not mission critical, but “pretty darn important”
 - Departmental solution
 - Important component of a solution delivery value chain
 - Not ‘worth’ re-engineering; too valuable to decommission
- Running on hardware that is no longer available
 - Ebay and Craigslist exhausted; closets empty
 - Next time is the big one
 - Management and LOB in denial; IT always makes it work
- It’s not “if”, it’s “when”

Solaris 2.6 and 7 applications

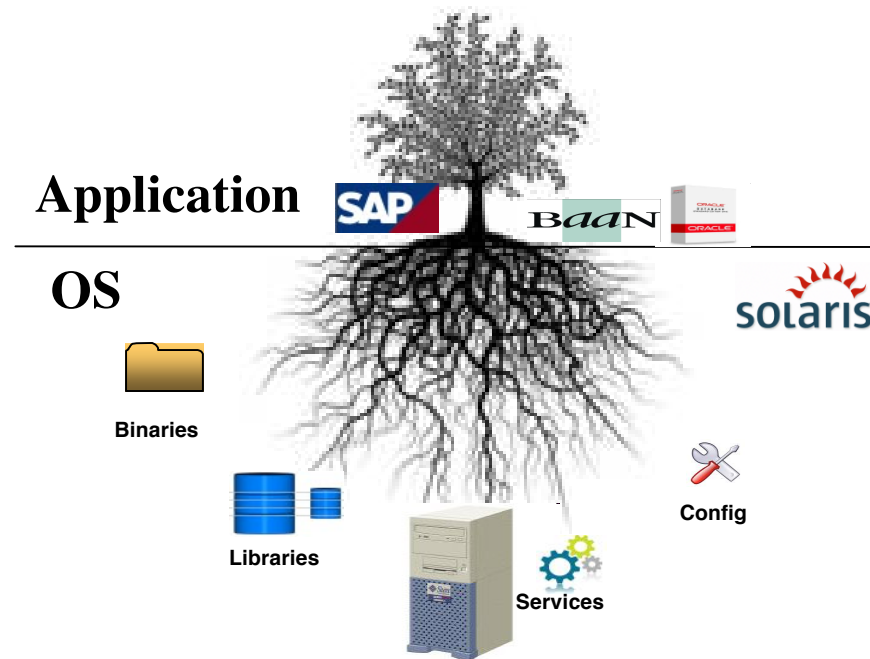
Today

- Apps run on unsupported OS that can not run on new hardware
- Old hardware with poor reliability; increasingly difficult to resuscitate
- Unable to leverage consolidation
- Frozen/inflexible
- Risk increases daily

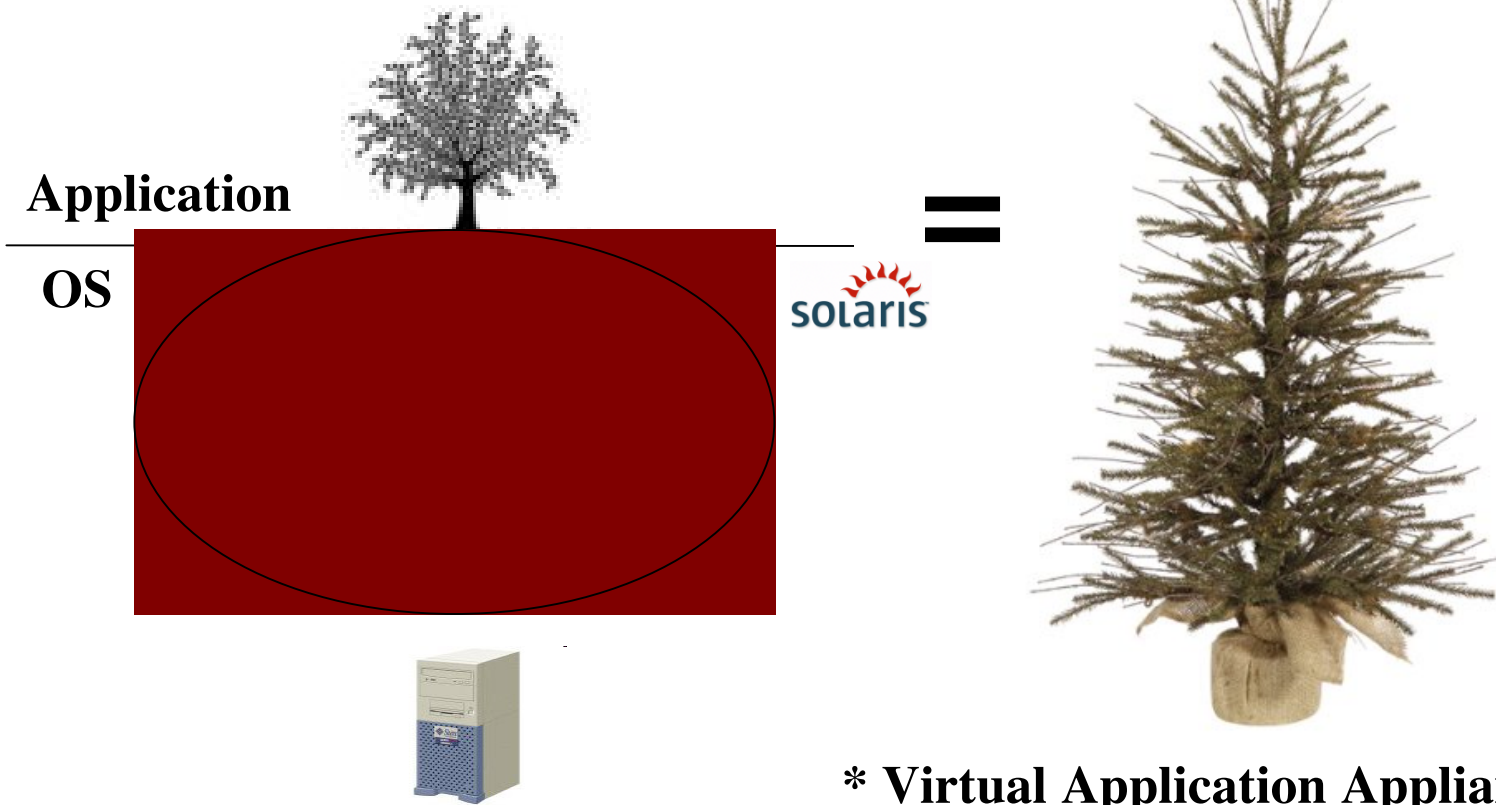
With AppZero

- Run legacy apps unchanged on Solaris 10
- Run on reliable, efficient hardware with standard maintenance
- Server consolidation ratio 15-30 to 1
- Mobility: datacenter/cloud
- Predictable


If applications were trees, installation would look like



and AppZero would package it into a VAA*



The AppZero Virtual Application Appliance (VAA)

The () VAA:

Packages all the elements required by the application to run:

Executables, libraries, services, scripts, configuration files, network identity, host identity.

Requires a compatible OS on the target machine

Is isolated from the underlying OS and from other VAAs.

Sees a configurable, merged view of its own files and those of the OS

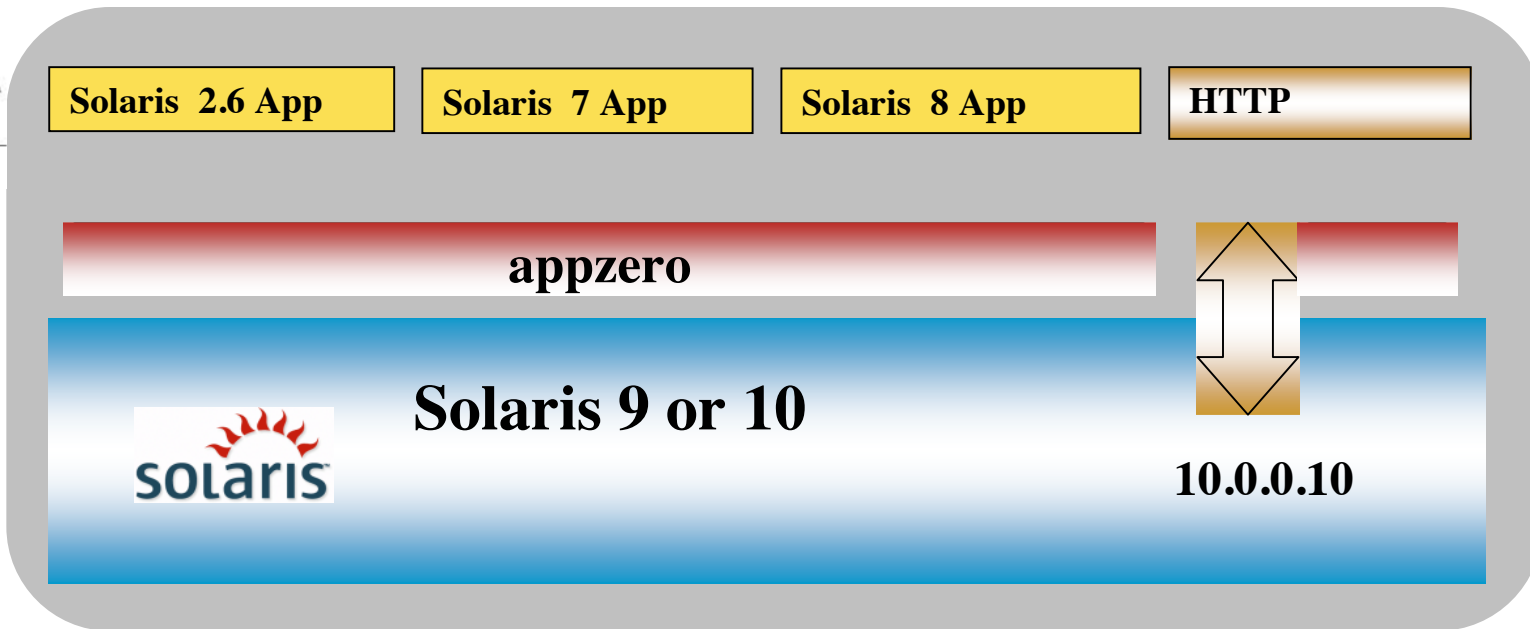
Makes no changes to the underlying OS

Can be managed independently and run without conflict.

Enables old applications to be migrated to new OS and hardware

Complements/operates within Solaris Zones, Containers, and LDOM's

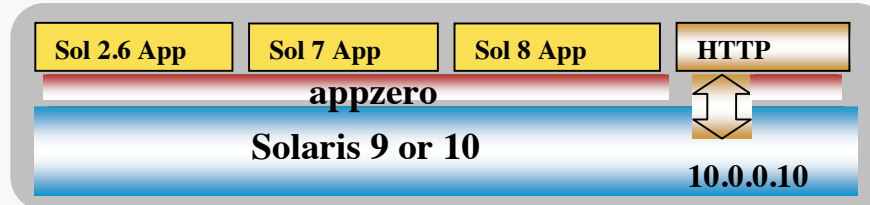
VAA's in action: AppZero application virtualization



AppZero Solaris elements

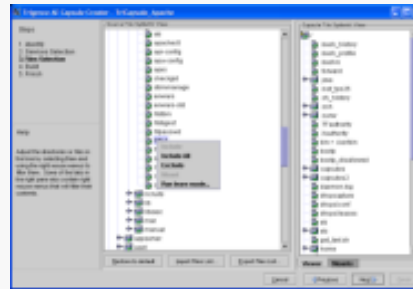
Appzero controller : orchestrates interaction of application and underlying OS

(Solaris 9, Solaris 10)



- **Appzero creator : packages application and dependencies into VAA**

(Solaris 9, Solaris 10)



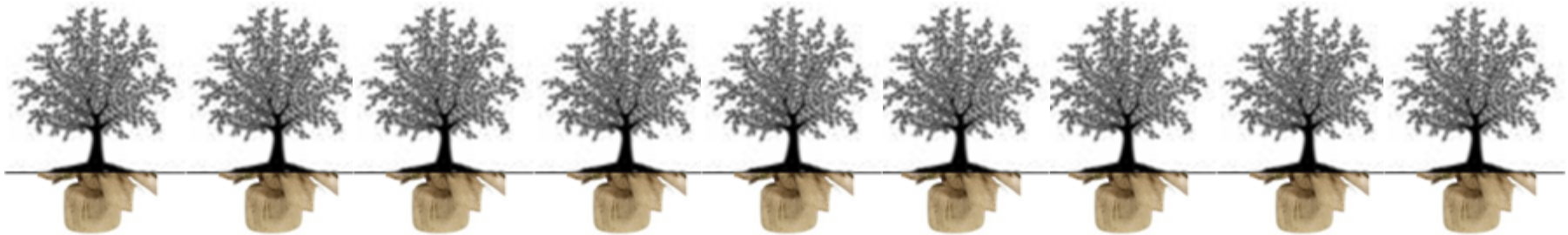
- **Virtual Application Appliance (V.A.A.) = container = capsule**

(Solaris 2.6, 7, 9 and 10)



AppZero application virtualization .

- Package once, run everywhere
- Eliminate application/application conflicts (sandbox)
- Run application on new hardware -- better performance/lower cost
- Server consolidation
- Continuity and disaster recovery





What type of application can I put into a VAA?

- Custom and proprietary
- Off the shelf applications.
- A simple “hello world” type of application
- Java stack, multiple Oracle DBs
- Complex set-ups such as J2EE, PeopleSoft, Baan or SAP

for example .

Apache	Java standard edition platform	Sprint Application Reserve 31
Atos Inventory Tracking	JBOSS Application Server	SugarCRM
Atos Expert Help Desk	JRUN	SunONE (iplanet)
Atreus Xauthority	LAMP	Sybase Adaptive Server
Bank of New York Trading Application	Maven	Enterprise 12.5
BAAN	MQ series	Thunderbird
BEA Weblogic 8.1	Mozilla	Tibco
BMC Remedy	MySQL	Tomcat
BMC Virtualizer Agent	Netscape	Tutos
Bugzilla	OpenOffice	Vantive
Certify sshd	OpenBookings	Veritas NetBackup
Clear Case source control	Opware agent	Voice Portal
Cognos 8 Business Intelligence	Oracle 8i, 9i, 10g	
CrossOver Office	Oraperl	
DCE	Perl	
GNU tools (gcc/ld/as/automake)	ProactiveNet	
Informix	Scientific application	

AppZero OS platform support

Solaris (SPARC)

- Solaris 2.6, 2.7, 9, 10 VAA Support 32/64 bit

Windows

- Windows XP
- Windows 2003 32/64 bit
- Windows 2008 32/64 bit
- Windows 2008 R2 64 bit
- Windows 7 32/64 bit

Linux

- Linux 2.6 kernel:
 - REL 5.x, 32/64 bit
 - CentOS 5.x 32/64 bit

You're probably wondering about .

- Level of effort: no re-engineering
 - Familiarize staff with AppZero solution
 - Virtualize/encapsulate application and test
 - Implementation is a copy, not an installation
- Time frame: a day to a week depending on complexity
- Skill level: application-knowledgeable admin or analyst
- Cost: one time costs
 - Creator \$20K, VAA \$7,500, Annual maintenance 20%

And maybe .

- Where it won't work:
 - Solaris x86, Solaris 2.5, Solaris to/from Linux, Windows, or UNIX
- What about applications with kernel drivers?
 - Doable under specific conditions
- Performance overhead: a non-issue
 - Application performance tends to improve running on current OS and new hardware
 - (%0 pure CPU, %3 business apps,%10 compilers.)
- Reliability: years of production use at large accounts

AppZero Solaris in action .

- Large Telecommunications Provider
 - Large database used in development and support of hardware offering
 - Evolved over time faced a choice: start over or use AppZero
 - AppZero within full production environment: “It just runs no need to manage”.
- Financial Investment Firm
 - Legacy customer information and data required for audit purposes
 - Application and database virtualized with AppZero in production
 - Originally intended to be an interim solution now, no plans to change
- Systems Integrator
 - Providing support for large telecom company in EMEA
 - Single instance of application cloned or duplicated then deployed.
- Software Vendor
 - Build customer environment internally to replicate issues and provide technical support
 - Support time reduced from weeks down to days/hours

Next steps .

- Join us April 7th for a 1 hour technical drill-down “[how to](#)” [webinar](#).
- Connect directly with us
 - Valerie O’Connell voconnell@appzero.com 617.820.5126 x4300
 - Greg O’Connor grego@appzero.com
- Share this recorded session with your colleagues at www.appzero.com
- Website www.appzero.com