



DOING IT BETTER SEMINAR

IT Innovations in the Community Sector
The Virtual network

Pere Ruka – IT Manager



A Word from my sponsors

- MacKillop Family Services was formed in 1997 with the coming together of seven Victorian child welfare agencies of the Sisters of Mercy, Christian Brothers and Sisters of St Joseph.
- We are one of the larger providers of specialist support services to vulnerable and disadvantaged children, young people and their families through five core areas of service:
 - **Supporting Families experiencing disadvantage and crisis;**
 - **Supporting Families raising a child with a disability;**
 - **Education and training services for children and young people;**
 - **Services for children and young people who are not able to live at home; and**
 - **Services for the former residents of our founding agencies.**
-
- Our services are clustered in eleven Programs which are in turn grouped into three Divisions, Barwon Services, Community Programs and Alternate Care.
- Some 380 staff and 400 volunteers are involved each fortnight in our services across Melbourne and Geelong.
-



Virtualisation – main players

- This is a competitive space with three main players:

- **Citrix**

<http://www.citrix.com/lang/English/home.asp>

- **Microsoft**

<http://www.microsoft.com/windowsserver2008/en/us/hyperv-main.aspx>

- **VMWare**

<http://www.vmware.com/>



What is Virtualisation?

Virtualisation mean consolidation of numerous operating systems on to the one hardware system. This is a great money saver, but also helps availability with the ease of being able to switch to a standby server, at the touch of a button.

Source <http://www.virtualisation.com.au>





Why Virtualisation - VMware?

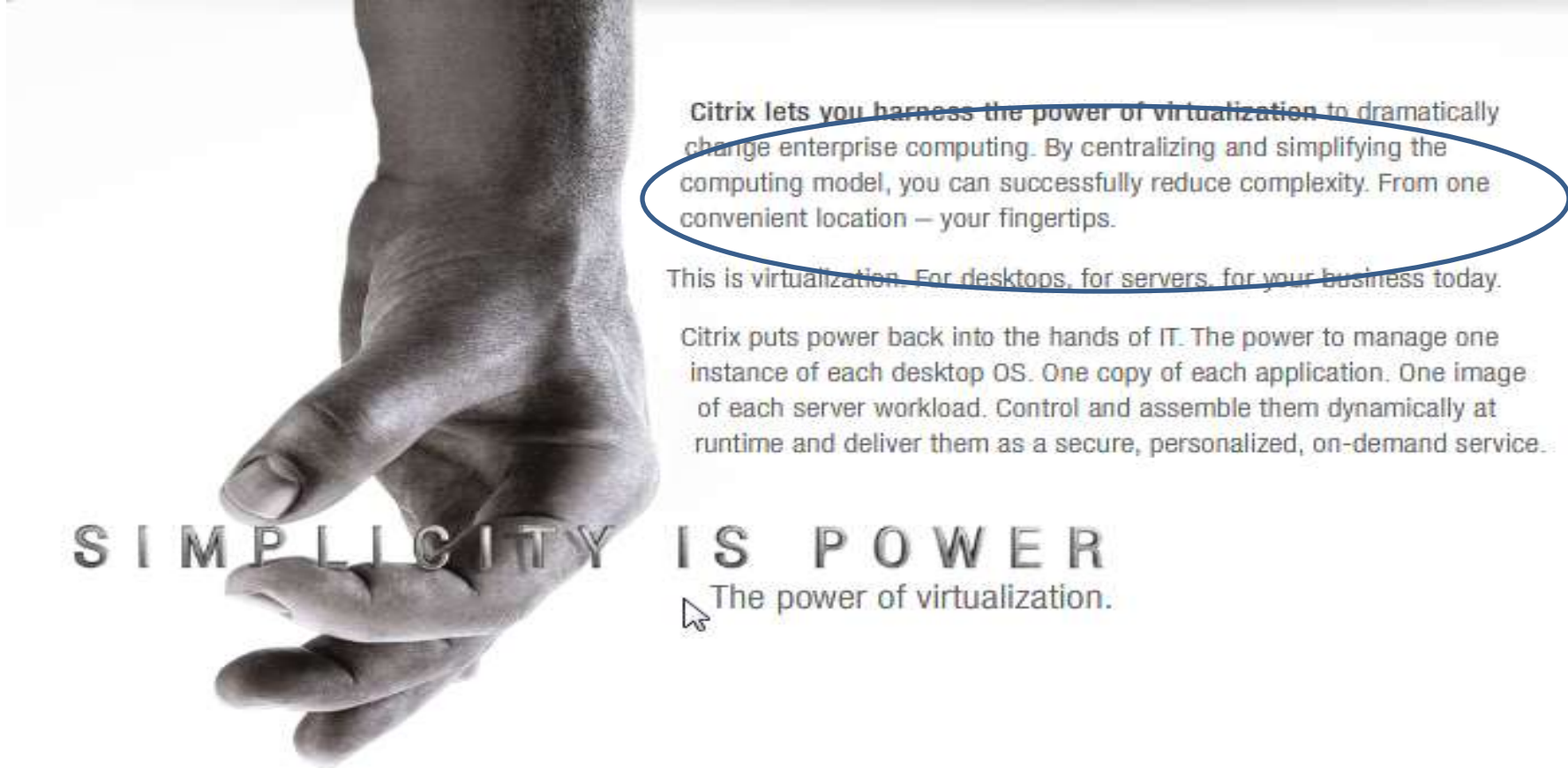
- VMware customers typically save 50-70% on overall IT costs by consolidating their resource pools and delivering highly available machines ...
- Run multiple operating systems on a single computer including Windows

Source <http://www.vmware.com/technology/virtualization.html>





Why Virtualisation - Citrix?



Citrix lets you harness the power of virtualization to dramatically change enterprise computing. By centralizing and simplifying the computing model, you can successfully reduce complexity. From one convenient location – your fingertips.

This is virtualization. For desktops, for servers, for your business today.

Citrix puts power back into the hands of IT. The power to manage one instance of each desktop OS. One copy of each application. One image of each server workload. Control and assemble them dynamically at runtime and deliver them as a secure, personalized, on-demand service.

SIMPLICITY IS POWER

⏶ The power of virtualization.

Source <http://simplicityispower.citrix.com/>





Why Virtualisation - Microsoft?

- **Windows Server 2008 R2 Hyper-V**
- With Hyper-V, it's easier than ever to take advantage of the cost savings of virtualization ... Optimize your server hardware investments by consolidating multiple server roles as separate virtual machines running on a single physical machine ...

Source

<http://www.microsoft.com/windowsserver2008/en/us/hyperv-main.aspx>





What does this all mean?

- Make sense?
- Took me a long time to get my head around what I was reading
- Lots of hype about cost benefit, efficiencies, value add
- Instead



What is Virtualisation?

Three types:

- **Server Virtualisation**

Virtualisation uses software to create a Virtual Machine (VM) that emulates a physical computer.

- **Desktop Virtualisation**

VDI is a desktop delivery model, which allows client desktop workloads (operating system, application, user data) to be hosted and executed on servers in the data centre

- **Application Virtualisation**

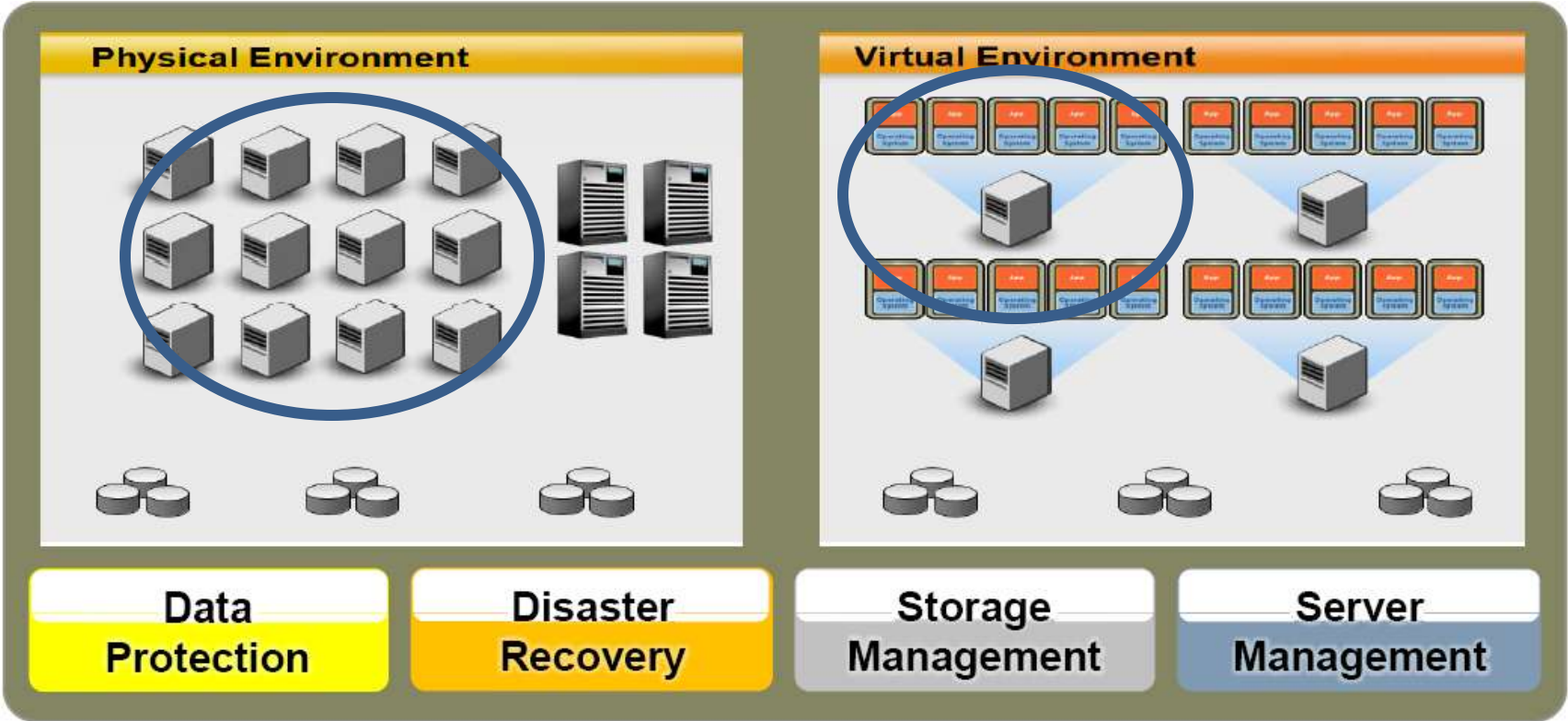
Application Virtualisation (App-V) transforms applications into centrally-managed virtual services that are never installed

Source <http://www.microsoft.com/australia/virtualisation>





Server Virtualisation





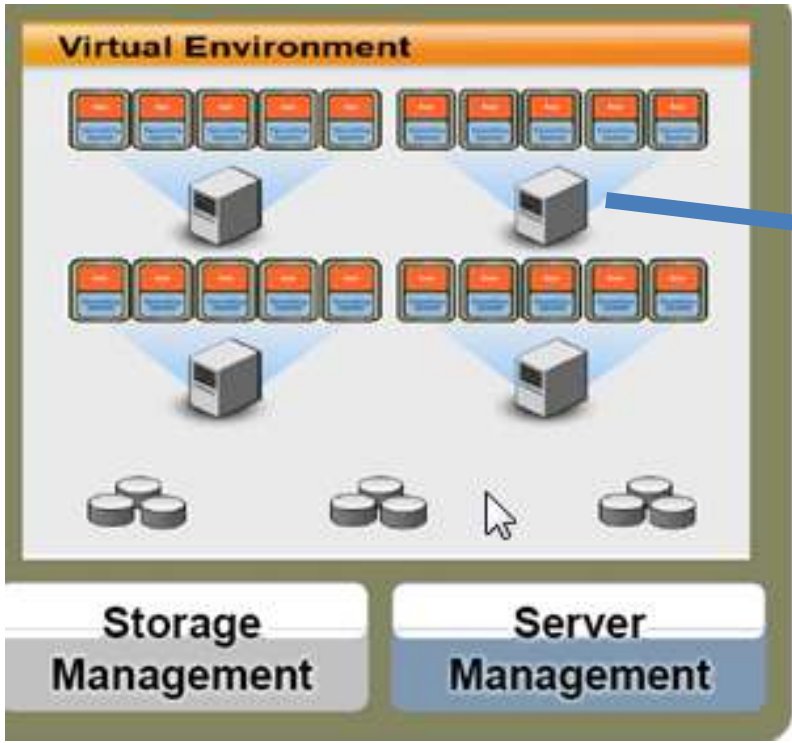
Server Virtualisation

Physical Environment **Virtual Environment**

BladeCenter front side: 8 blade servers (JS21) followed by 6 empty slots

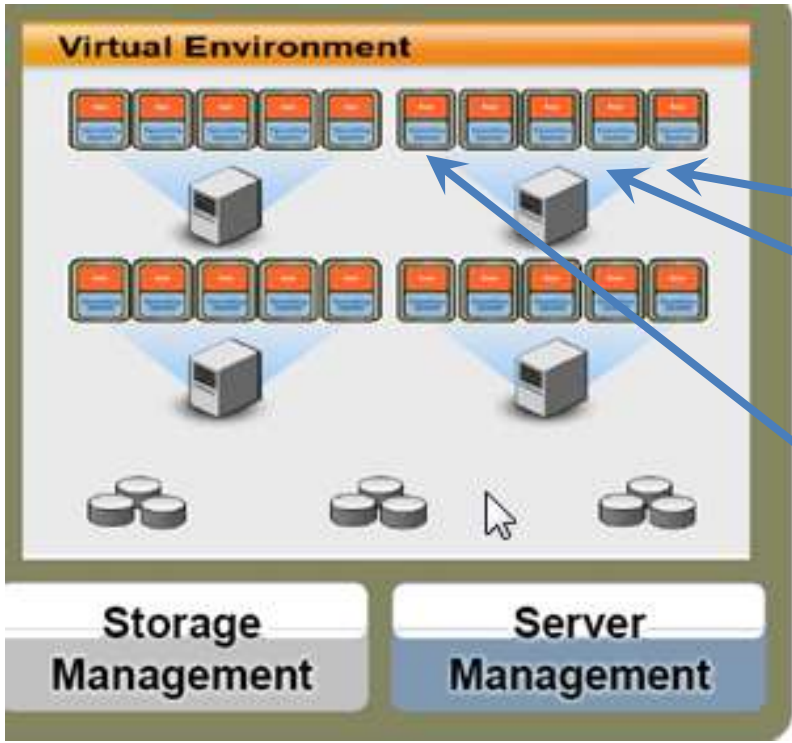


Server Virtualisation





Server Virtualisation





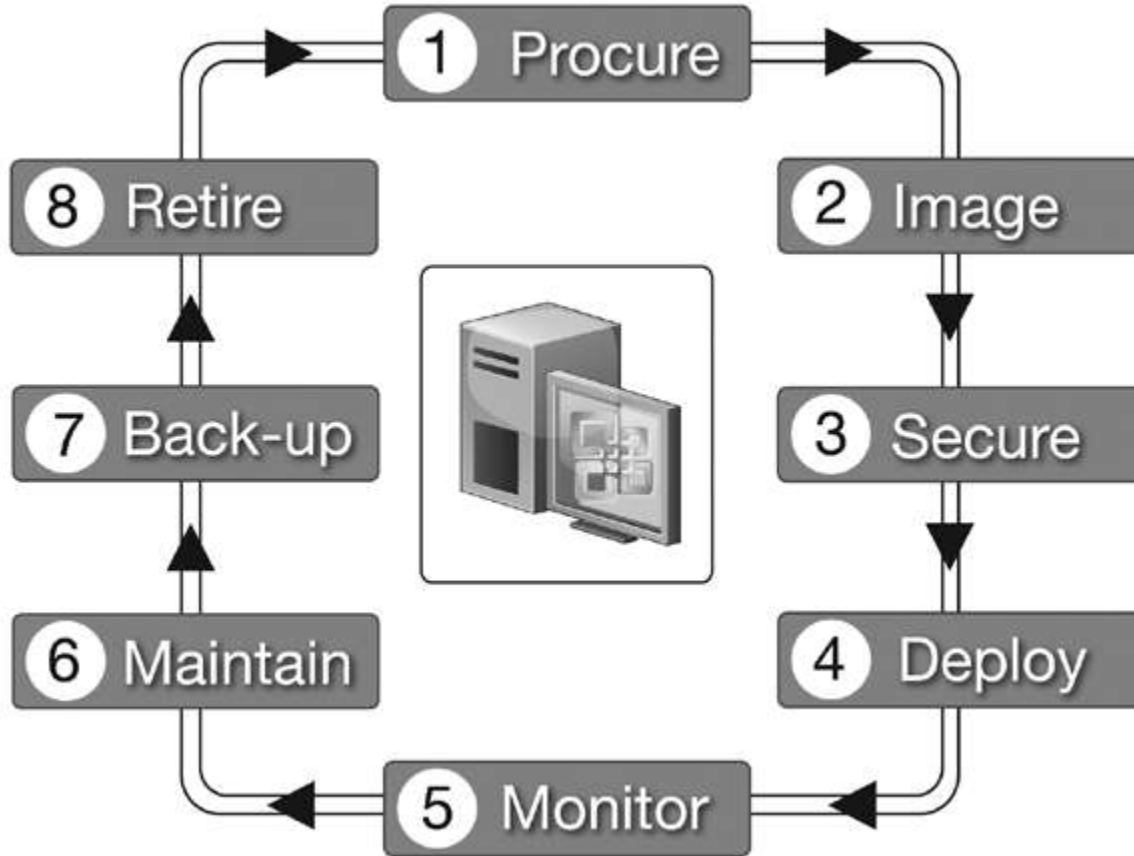
Server Virtualisation

LIVE DEMONSTRATION

- Create new virtual server from templates
- Motion virtual server between blades
- Look & feel of virtual server console



Physical Desktop Deployment models



Source - <http://simplicityispower.citrix.com/deliver/pdf/power-of-virtualization.pdf>





Desktop Virtualisation



Desktop Appliance



VM Infrastructure

Source - <http://simplicityispower.citrix.com/deliver/pdf/power-of-virtualization.pdf>





Advantages

One

1

Build once. Leverage infinitely.



Advantages



- One copy of each application
- One copy of Windows
- One copy of each workload
- One password for each user
- One instance of data



Desktop Virtualisation



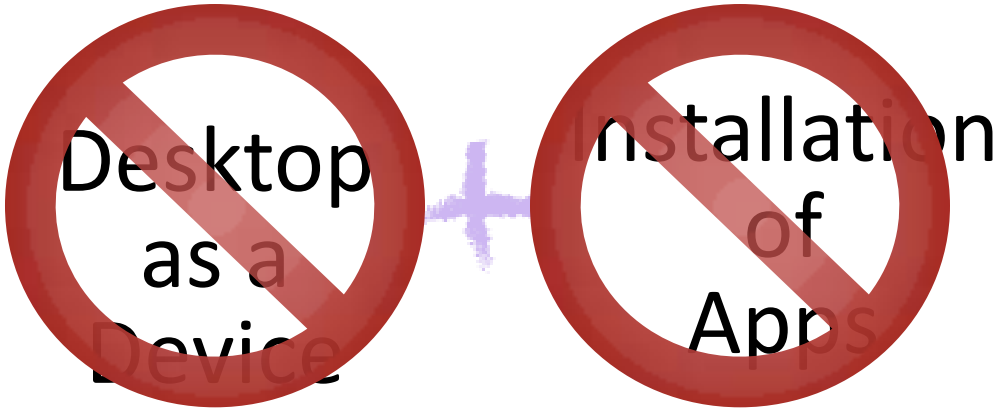
Desktops are accessed from anywhere with an internet connection regardless of device

Source: <http://www.citrixforum.com.au/downloads.php>





Desktop Virtualisation



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Source: <http://www.citrixforum.com.au/downloads.php>





Desktop Virtualisation



- Background Wallpaper
- Internet Bookmarks
- Shortcuts and toolbars
- Saved file locations
- Multimedia
- Social Networking

No longer is a balancing act where Desktop's are independent of the device that is running it

Source: <http://www.citrixforum.com.au/downloads.php>





Desktop & Application Virtualisation

LIVE DEMONSTRATION

- Applications published in web portal
- Access Virtual Desktop Melbourne
- Applications published to vDesktop Melbourne
- Access Virtual Desktop Geelong
- Applications published to vDesktop Geelong
- Active Directory Citrix security groups



THANK YOU

