

2 Birds with one Stone Upgrading and Migrating Oracle Applications 11i to Linux at Vic Uni Wellington

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Introduction

This presentation and paper summarises the drivers and process to move Vic Uni Wellington to Linux running Oracle Real Application Clusters from Solaris single instance.

Objectives

The main objectives behind the implementation were:

- Move Oracle Applications 11i (Finance), Student System and Human Resources systems to Linux
- Consolidate and move those databases to a Real Application Clusters environment
- Thus making the platform cost effective and resilient given the clustering capability

Drivers

The main drivers behind the implementation were:

- Cost

The current Solaris infrastructure was costly. This was monthly support charges from Sun not that the servers required heavy maintenance.

- Availability

Running on a single node Solaris server did not guarantee the availability of the service should a failure (software or hardware) occur. At month end this would severely impact the business. With visibility of such an issue potentially being seen at Chancellor level.

- Scalability

As the university expands the capability to scale on the Solaris single Oracle node architecture was severely limited.

- Consolidation

To consolidate the HR, Students and Finance systems on to one clustered platform renders the systems resilient, highly available and more manageable, there being one place to look after.

- Stay current and supported

The Oracle Applications environment had lagged significantly behind Oracle's subsequent applications releases.

Process

The process involved:

- Configure RAID setup and physical hardware
- Install and patch Linux
- Install 11.5.9 on to the Linux target

- Upgrade the target db on Linux to 9.2.0.4
- Clone source objects from source to target
- Export from Solaris 8.1.7
- Import to Linux 9.2.0.4
- Run Autoconfig
- Apply 11.5.9 pre-reqs
- Apply 11.5.9 Maintenance pack
- Apply Consolidated Update Patch 2 (CUP2)
- Apply UAT fixes
- Fix printing, Discoverer and Workflow

Conclusion

- Linux is a mature, reliable and viable alternative OS
- If Oracle Applications can be migrated so can anything
- Real Application Clusters brings availability and dynamic scalability to Oracle data