

ORACLE®

Simple
Reliable
Affordable



ORACLE®

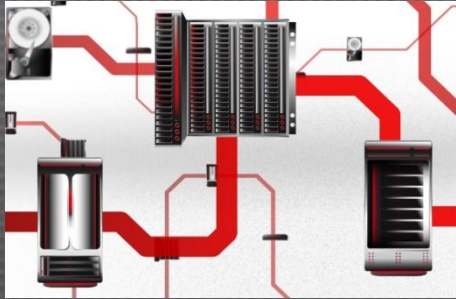
Oracle Database Appliance X3-2

Winfried Noske

Principal Sales Consultant

Growing Business Critical Services and Data

High Availability Solutions Desirable



Costly and Complex



**Specific Skills
Required**



Risk of Failure

Oracle Database Appliance

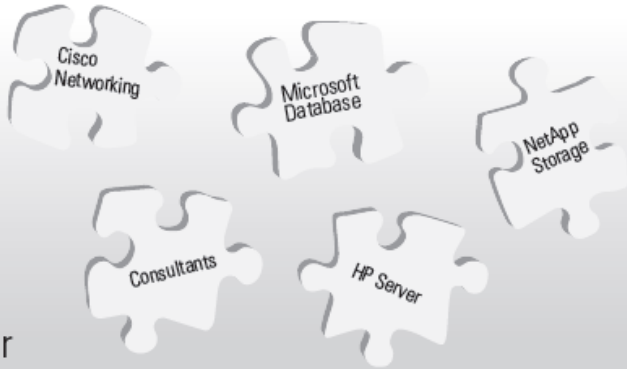
Simple. Reliable. Affordable.



Puzzle pieces of Oracle Database Appliance

5

Build your own



1

ORACLE®
DATABASE APPLIANCE

Staff and skills required to deploy high availability

7



Database Admin



Installation Expertise



Network Admin



Storage Admin



Optimization Skills



System Admin



HA Expertise

1

DBA



Patches per year

24+

Build your own

4

Oracle Database Appliance

Time to install and maintain over 3 years

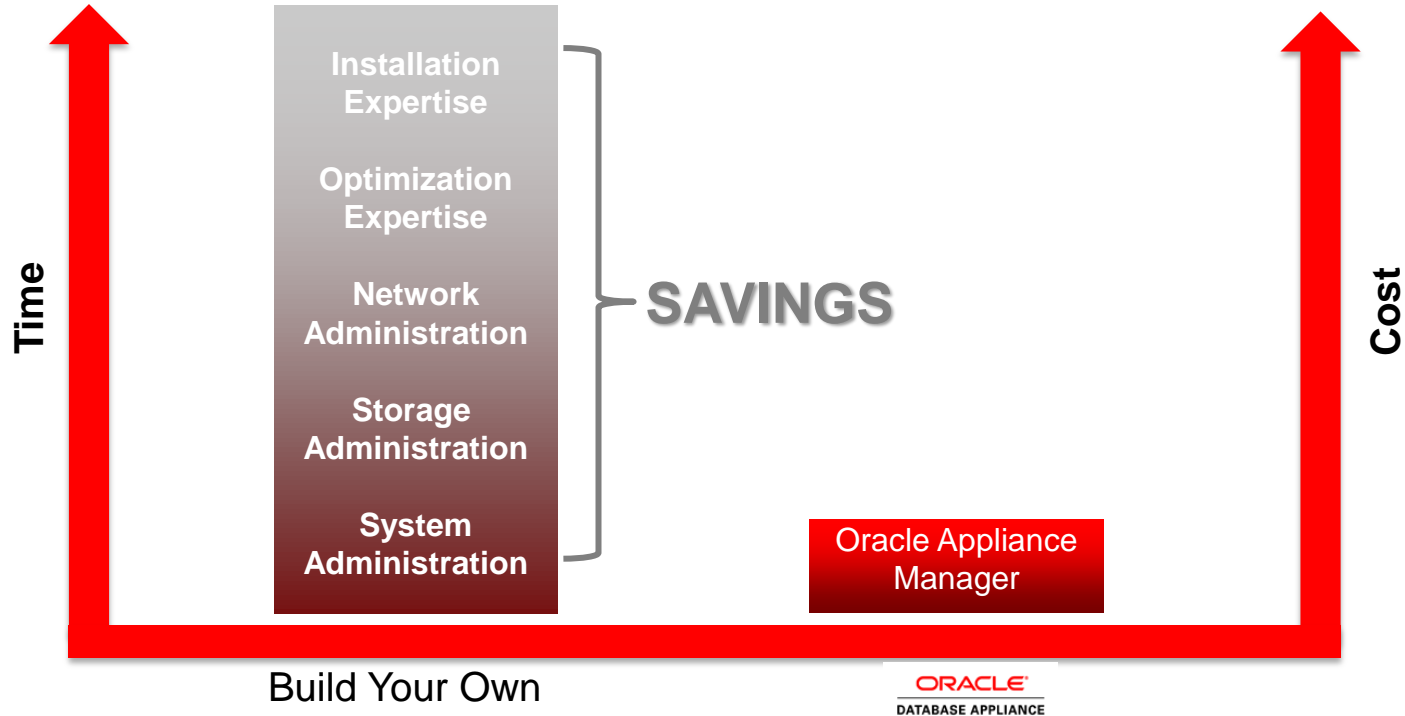


2173 Hours



112 Hours

Simple to Install, Manage and Maintain



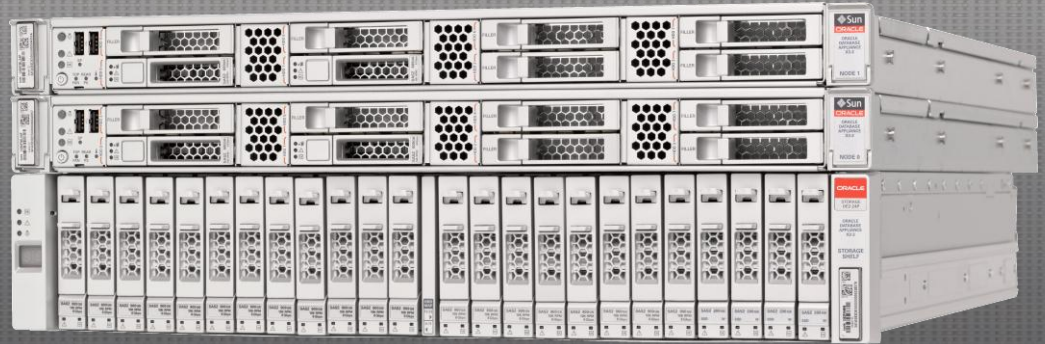
Rapidly Deploy A Database Cluster

Simple to Install

Rack the system

Cable the system

Wizard-driven install



Oracle Appliance Manager

Simple to Manage and Maintain

One Button Deployment

One Button Patching

One Button Healthcheck

“Zero-Admin” Storage

Automated Support



Oracle Database Appliance

Simple. **Reliable**. Affordable.

Building reliable systems is difficult for many database professionals:

- **42%** experience challenges meeting database SLA's
- **66%** have had to work overnight due to a database emergency

Fully Redundant Hardware

- Two dual-socket Oracle Linux servers
- Redundant 10-GbE interconnect
- Double-mirroring or triple-mirroring storage redundancy
- Redundant hot-swappable power, cooling, and fans

Oracle Database Appliance X3-2

Base Configuration Details

Processing Power

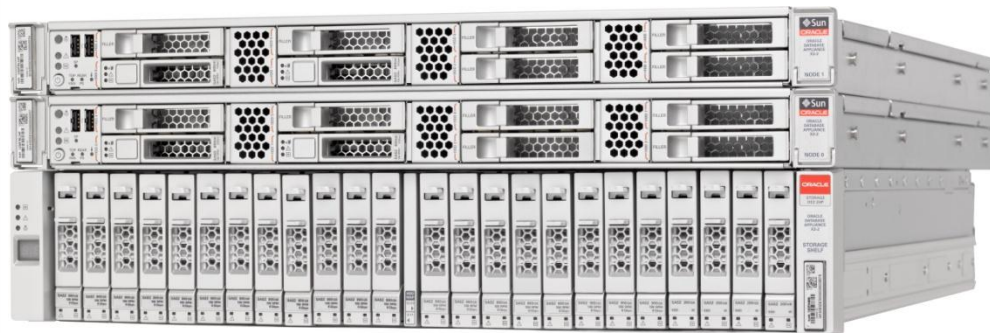
- 32 Intel Xeon processor E5-2690 cores
- 512 GB of main memory

Networking

- Redundant 10-GbE Base-T Interconnect
- Four 10-GbE Base-T Ethernet Ports

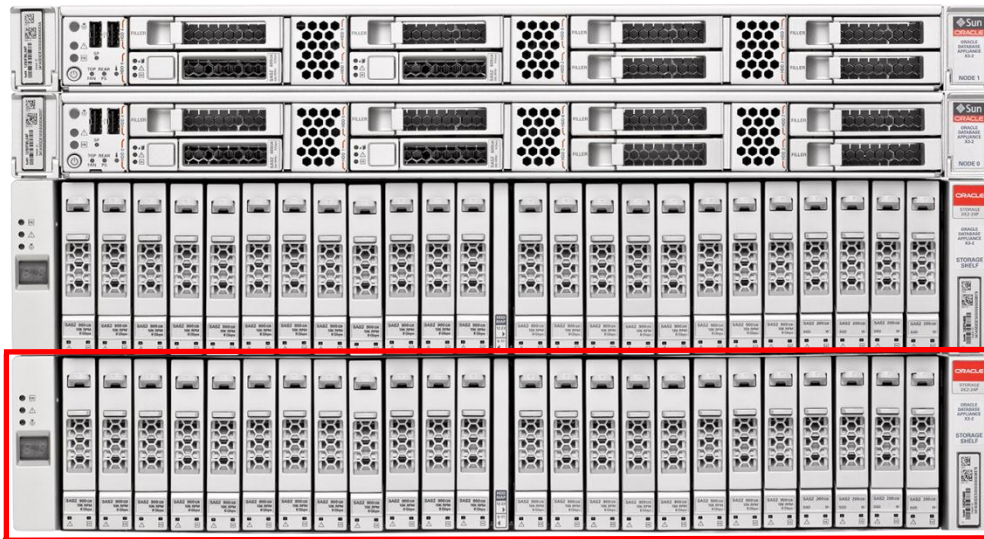
Storage Capacity

- 18 TB Raw Disk Storage
- 800 GB Raw Solid State Storage



Oracle Database Appliance X3-2

Storage Expansion Shelf



Double Available Storage Capacity

- Double the number of Disks and Solid State Drives with Optional Storage Expansion Shelf

Raw Disk Storage

- Additional 18 TB
- 36 TB Total

Raw Solid State Storage

- Additional 800 GB
- 1.6 TB Total

Highly Reliable Software

- Oracle Database 11g Enterprise Edition
 - Real Application Clusters (RAC)
 - RAC One Node
 - Single Instance
- Oracle Grid Infrastructure
 - Automatic Storage Management (ASM)
 - Oracle Clusterware
- Oracle Linux
- Oracle Appliance Manager

Best in Class Availability

Active – Active

- Best Availability
- Oracle Database 11g Enterprise Edition
- Oracle Real Application Clusters
- Mutual failover and load balancing

Active – Passive

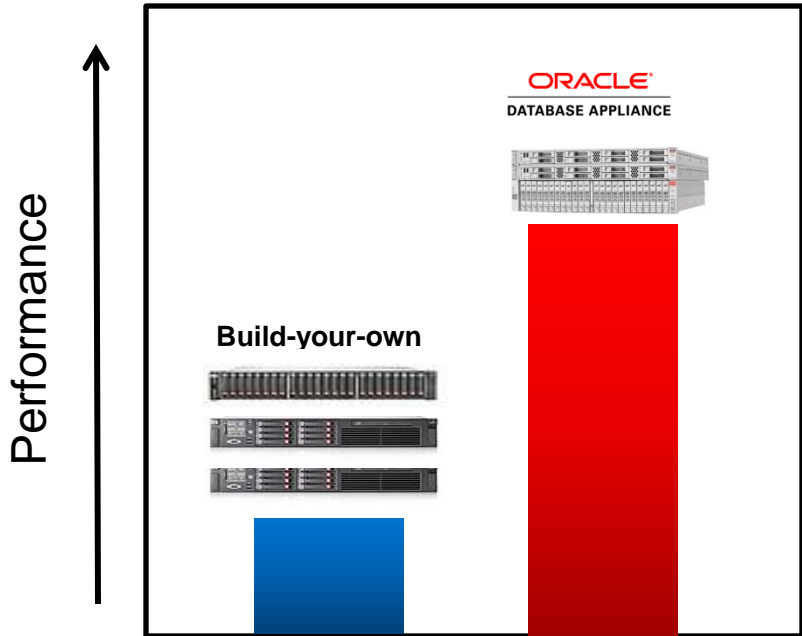
- Better Availability
- Oracle Database 11g Enterprise Edition
- Oracle Real Application Clusters One Node
- Can have mutual failover

Single Instance

- Good Availability
- Oracle Database 11g Enterprise Edition

Best-in-Class Performance

- Optimal data layout
 - Ideal disk group configuration
 - Data striping with ASM
- Direct-attached storage
 - Eliminates SAN/NAS bottlenecks
- Out-of-the-box fully tuned
 - Increases throughput
 - Improves response time

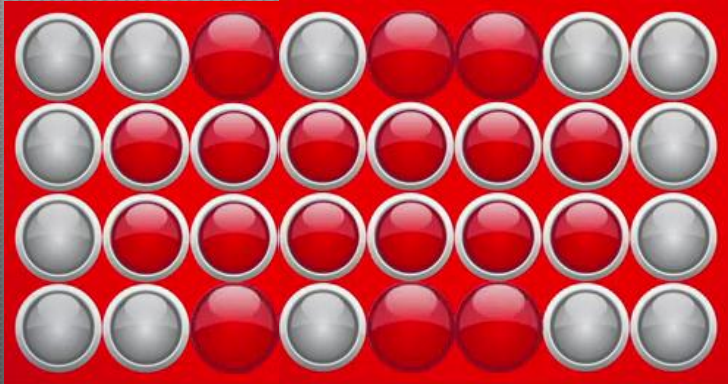


Oracle Database Appliance

Simple. Reliable. **Affordable.**

“50% of database respondents to a recent survey use less than
75% of their Licensed Database Capacity”

Built-In Scalability



Purchase single hardware configuration

Start with minimum of 4 core licenses

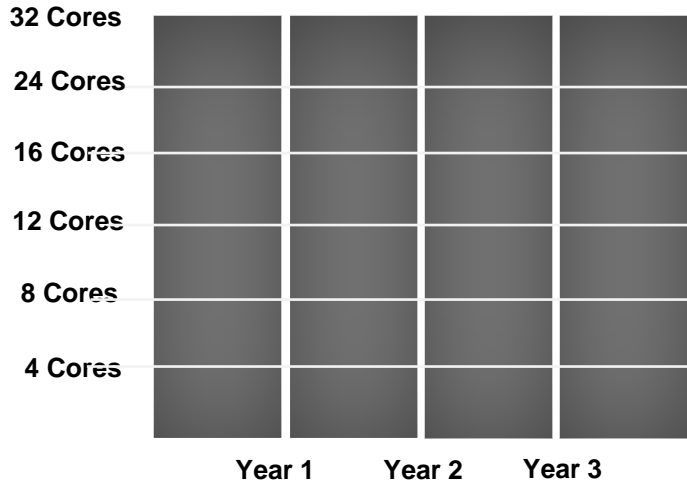
Scale to maximum of 32 core licenses

No hardware upgrades required

**License database software on enabled
cores**

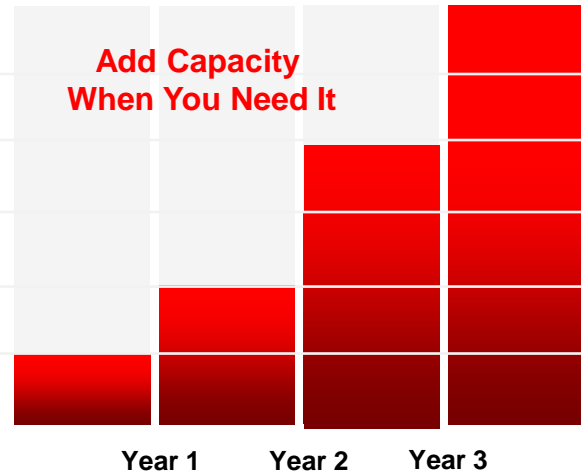
Capacity On Demand Licensing

Option 1: Build Your Own
License 32 Cores for Anticipated Growth



Pay It All Now

Option 2: Buy Database Appliance
License as You Grow and Save Significantly



Pay As You Grow

OR

Oracle Database Appliance X3-2 Reduces TCO

ORACLE



DELL



Configuration	1 Oracle Database Appliance X3-2	Build Your Own: 2 Servers Plus Direct Attach Storage: 2 x DL 380 G8+ SAS Array with 20x HDDs and 4x SSDs	Build Your Own: 2 Servers Plus Direct Attach Storage: 2 x R720 + SAS Array with 20x HDDs and 4x SSDs	3 Year TCO/Savings
Hardware Cost	\$60,000	\$79,976	\$78,716	~\$20,000
Software Licensing and Support	4 – 32 cores	32 cores	32 cores	Up to 88%
Solution Design, Acquire, Setup	4 Hr. \$400	194 Hours \$19,400	194 Hours \$19,400	\$19,000
Maintenance and Patching (Quarterly)	5 Hours/Yr \$500/Yr	148 Hours/Yr \$14,800/Yr	148 Hours/Yr \$14,800/Yr	\$42,900
Additional OPEX	12 Hours/Yr \$1,200/Yr	76 Hours/Yr \$7,600/Yr	76 Hours/Yr \$7,600/Yr	\$19,200
Level of Difficulty	Easy	Complex	Complex	~ \$100K (excluding software)

Oracle Database Appliance

Simple. Reliable. Affordable.

Now, use the Oracle Database Appliance as a Solution-in-a-Box!

The ODA Solution-in-a-Box

ODA Supports Application Workloads Through Virtualization

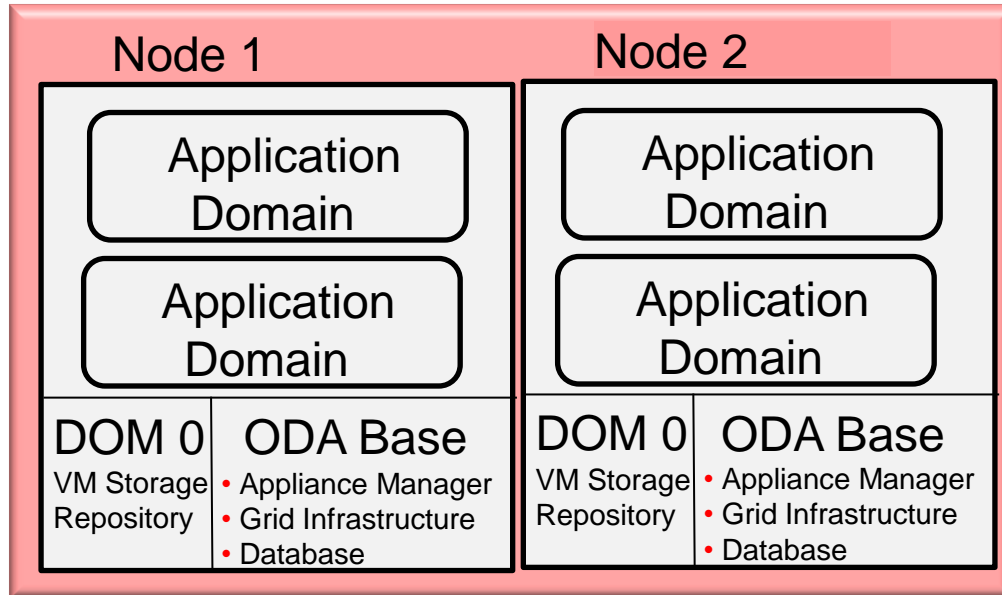


- Package an entire solution in a single ODA system
- Oracle VM used to partition each server and host multiple workloads
- Provides a solution with
 - Efficient sharing of the platform with one or more applications
 - Capacity-on-demand licensing for both database and applications
 - Isolation between database and application workloads
 - Grow / shrink database and applications capacity with no restrictions
 - Utilization of the full ODA capacity, regardless of database core usage

Oracle Database Appliance Virtualized Platform

On demand capacity to utilize all resources

Oracle Database Appliance



- Option to install the Oracle VM functionality
- Provides a solution with
 - Efficient sharing of the platform with one or more applications
 - Capacity-On-Demand licensing for database and applications
 - Isolation between database and application workloads

Extend your Oracle Database Appliance with WebLogic

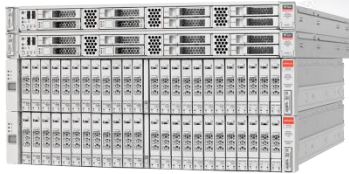
Deploy a simple, affordable, and reliable WebLogic Server
on top of your Oracle RAC deployment

- Simple provisioning/installation/maintenance
 - **Under 120 minutes** to a best-of-breed HA Web virtualized application and database infrastructure
 - Single-vendor patching – **one-throat-to-choke**
- Reliable HA Architecture
 - **Dynamic load balancing** with clusters that configure in minutes
- Affordable investment model
 - **Capacity-On-Demand licensing** with virtualized pricing as your workload changes



Oracle Database Engineered Systems Continuum

***Engineered for
Extreme Simplicity***



Oracle Database Appliance



Engineered for Extreme Performance

ORACLE DATABASE APPLIANCE

Simple, Reliable, Affordable

- Simple to deploy, manage and maintain
- Best-in-class availability
- Best-in-class performance
- Built-in scalability
- Capacity-on-demand licensing
- Solution-in-a-Box





FOR MORE INFORMATION

oracle.com/databaseappliance

Q&A

Hardware and Software

ORACLE®

Engineered to Work Together

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