



Simple Reliable Affordable



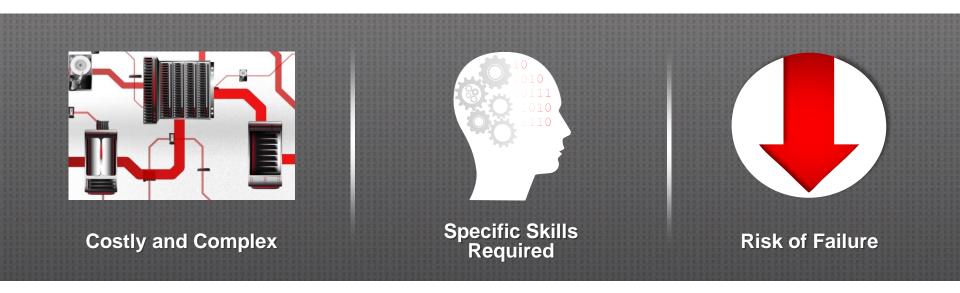
ORACLE

Oracle Database Appliance X3-2

Winfried Noske

Principal Sales Consultant

Growing Business Critical Services and Data High Availability Solutions Desirable

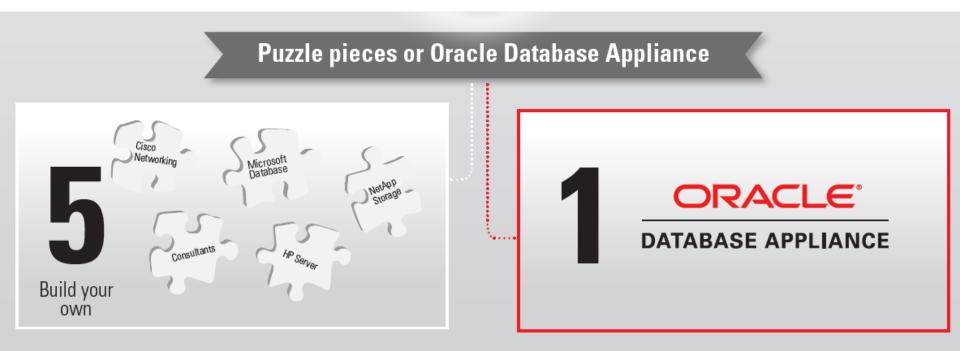




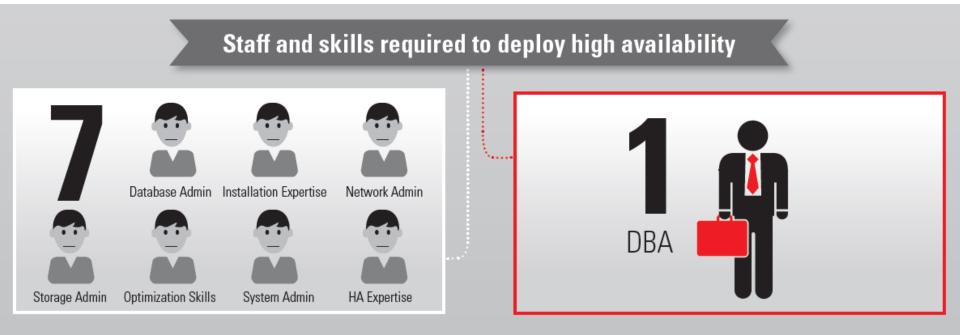
Oracle Database Appliance Simple. Reliable. Affordable.



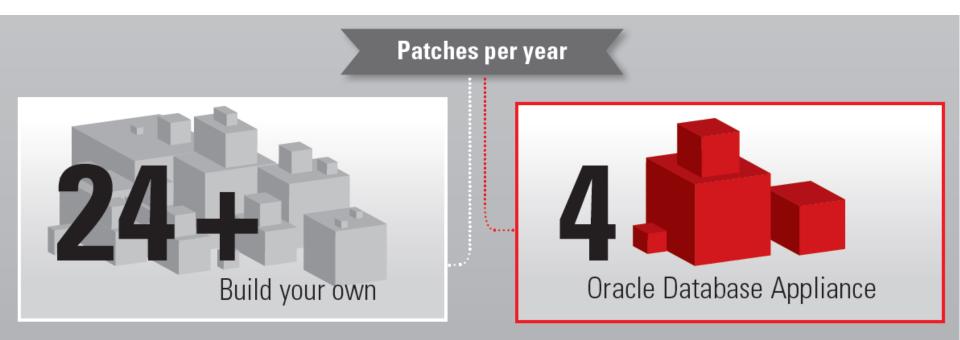










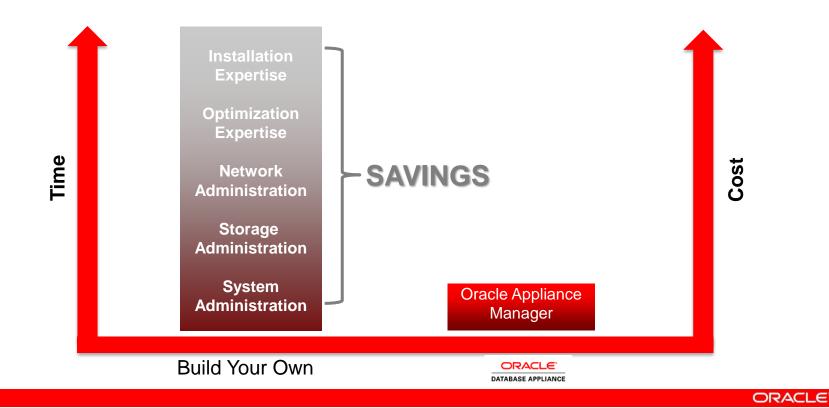




Time to install and maintain over 3 years Lunu Line Inthe **Hours** Hours



Simple to Install, Manage and Maintain



Rapidly Deploy A Database Cluster Simple to Install

Rack the system

Cable the system

Wizard-driven install

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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

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Oracle Database Appliance X3-2 Storage Expansion Shelf

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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

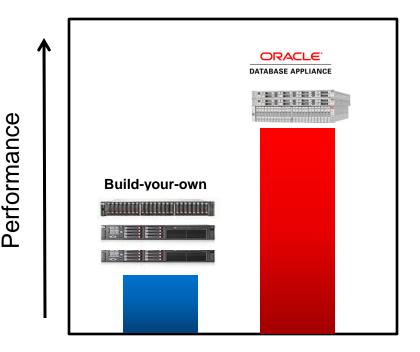
Single Instance

- 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

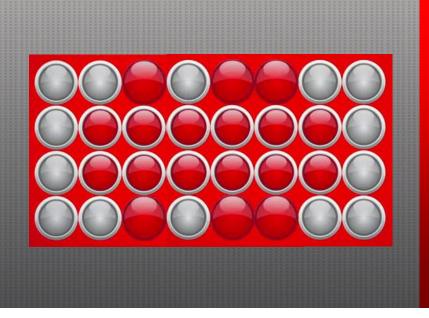


Oracle Database Appliance Simple. Reliable. Affordable.

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



Built-In Scalability



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22 |

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

ORACLE

Capacity On Demand Licensing

Option 1: Build Your Own Option 2: Buy Database Appliance License 32 Cores for Anticipated Growth License as You Grow and Save Significantly 32 Cores **Add Capacity** 24 Cores When You Need It 16 Cores OR 12 Cores 8 Cores 4 Cores Year 1 Year 3 Year 2 Year 1 Year 2 Year 3 Pay It All Now Pay As You Grow

ORACLE

Oracle Database Appliance X3-2 Reduces TCO

	ORACLE		DØLL	
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

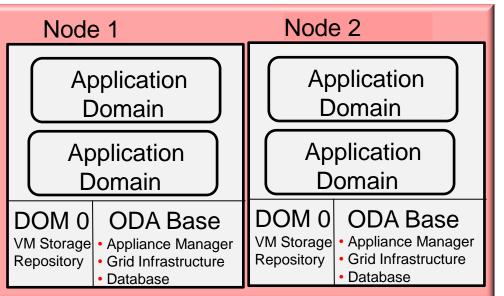
- Package an entire solution in a single ODA system
- Oracle VM used to partition each server and host multiple workloads
- Provides a solution with
 - Efficient sharing of the platform with one or more applications
 - Capacity-on-demand licensing for both database and applications
 - Isolation between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

27

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

29

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



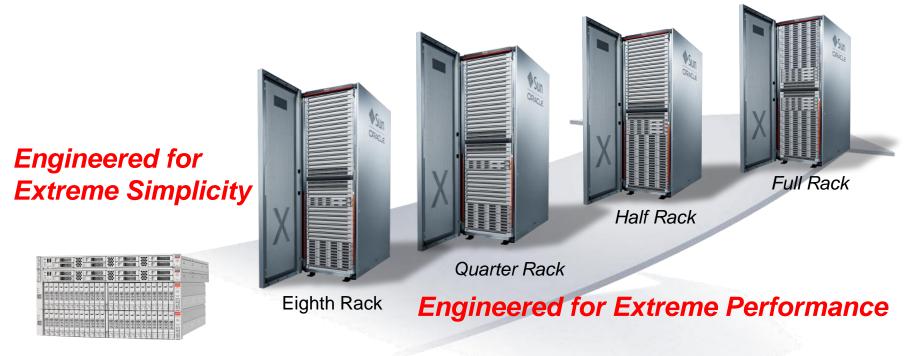






ORACLE

Oracle Database Engineered Systems Continuum



Oracle Database Appliance



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





Hardware and Software

ORACLE

Engineered to Work Together

