

redPartner®

redPartner®

¡Bienvenidos!

y

Muchas Gracias

Martín Cabarique
martin.cabarique@red-partner.com

Oracle Services Leader

Noviembre, 2011

ORACLE

10g Certified Master



Oracle Database Appliance

redPartner®

Basada en las siguientes presentaciones:

- **Oracle Database Appliance**

Bob Thome, Senior Director of Product Management, Oracle

Rhos Dyke, Executive Vice President, Cloud Creek Systems, Inc

- **Oracle Database Appliance Secrets Reveled**

Paul Tsien, Product Manager, Database Group

Growing Business Critical Services and Data

High Availability solutions desirable, but not easily deployed



**Complex and
Costly**



**Specific Skills
Required**



**High Risk
of Failure**

ORACLE®

ORACLE® Platinum
Partner

Oracle Database Appliance

Simple. Reliable. Affordable.

ORACLE®

DATABASE APPLIANCE

Available Now



ORACLE®

ORACLE® Platinum
Partner

Oracle Database Appliance

Ideal for SMBs and Departmental Systems

- **Simple** to implement
- Designed and priced to **scale**
- **Performance** improves as you scale
- Highest levels of **serviceability**
- Highest **availability** for this class of machine

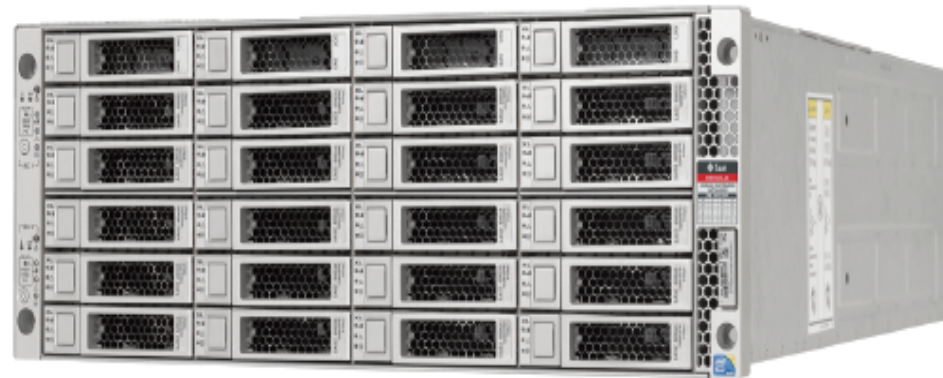


ORACLE®

ORACLE® Platinum
Partner

Fully Redundant Hardware

- 2 x dual-socket Oracle Linux servers
 - 24 Intel Xeon processor X5675 cores
 - 192 GB main memory
- 12 TB raw disk storage
- 292 GB solid state storage
- Built-in redundancy
 - Server, storage, network, power and cooling
- Single 4RU chassis



ORACLE®

ORACLE® Platinum
Partner

Highly Reliable Software

- Oracle Linux
- Oracle Database 11g Enterprise Edition
 - Automatic Storage Management
 - Oracle Clusterware
- Oracle Real Application Clusters
- Oracle Enterprise Manager
- Oracle Appliance Manager software

Three Tiers of Availability

Single Instance

- Good Availability
- Oracle Database 11g Enterprise Edition

Active – Passive

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

Active – Active

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

Easy to Install

Rapidly Deploy a Database Cluster

- Plug in the power
- Plug in the network
- Wizard-driven install



ORACLE®

ORACLE® Platinum
Partner

Appliance Manager Software



■ Appliance Manager Software

- Configurator
- Deployment
- Validation
- Storage Management
- Patching
- Diagnostic Tools

Appliance Manager Software

Configurator

- Hides the complexity of setting up the cluster
- GUI-based enquiry collects configuration information
 - Cluster name, Domain, Networking Information, Database Size
- Validates gathered information
- Configures OS & Networks
- Deploys the Grid Infrastructure & Database

Appliance Manager Software Configurator

Setup the customized System Name

ORACLE
DATABASE APPLIANCE

System Info

Config Type
System Info
Network Info
Database Info
Network Subsystem
Summary

System Name: posales

Region: America

Timezone: America/Los_Angeles

Database Deployment: RAC

New Root Password: *****

New Root Password(confirm): *****

< Back Next > Finish Cancel

Appliance Manager Software Configurator

Oracle Appliance Manager

ORACLE DATABASE APPLIANCE

Network Info

Domain Name: oracle.com

DNS Servers: 198.27.118.2

	Node1-Name	Node1-IP	Node2-Name	Node2-IP
Public	posales1	192.118.12.101	posales2	192.118.12.102
VIP	posales1-vip	192.118.12.103	posales2-vip	192.118.12.104
SCAN	posales-scan	Addresses	192.118.12.105	192.118.12.106
Network	255.255.255.0	Gateway	192.118.12.1	

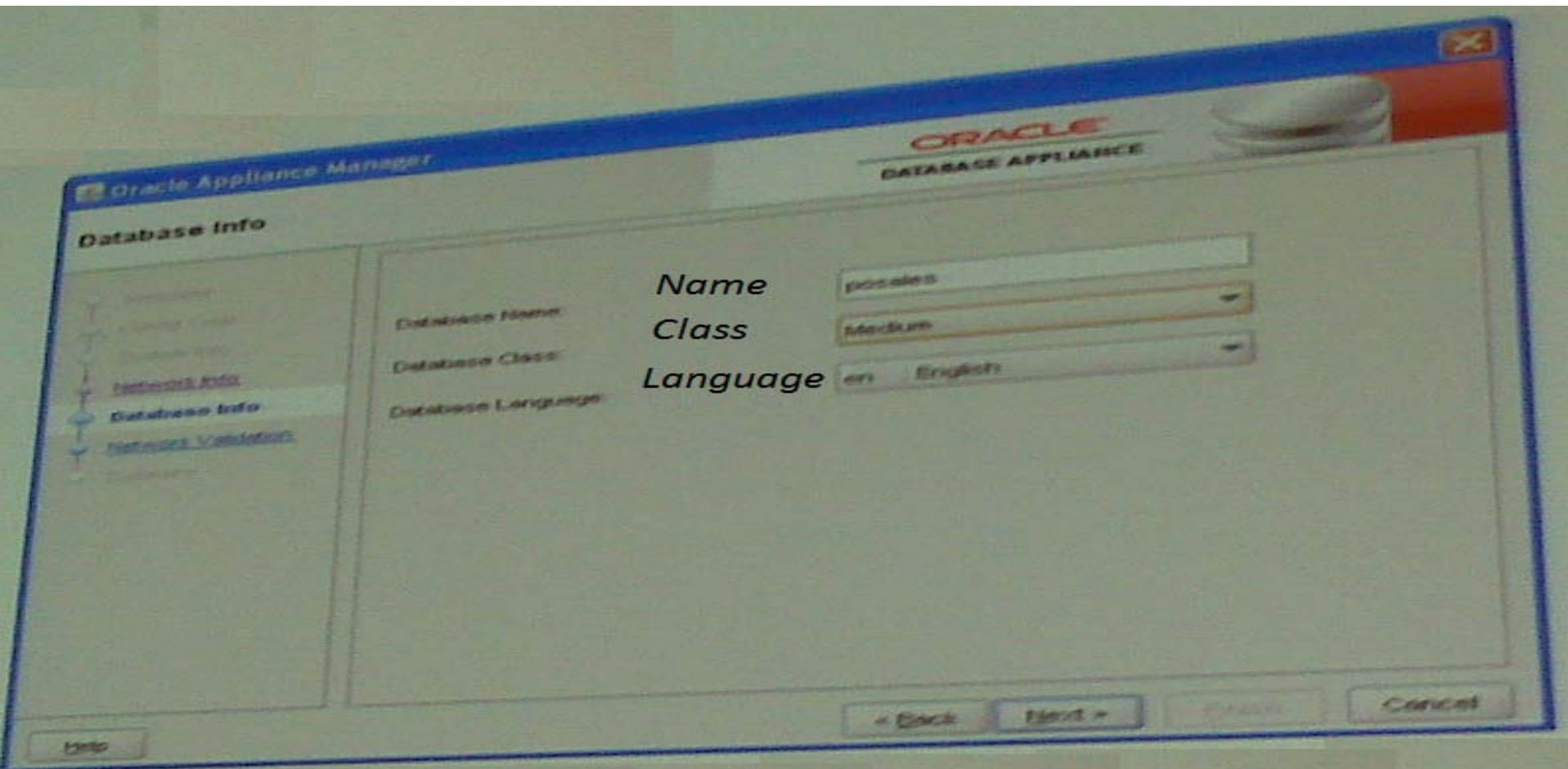
Buttons: Back, Next >, Cancel

Node and IP information for 2 Node is automatically generated & filled

Vip Name & IP information automatically generated & filled for both nodes

SCAN name is auto generated

Appliance Manager Software Configurator



Appliance Manager Software

Deployment

- Deploy OS, Oracle Appliance Manager, Grid Infrastructure & Database
- Configure GI & Oracle Database
- Ensure correct configuration of disks & network
- Consistent Implementation of known Best Practices
- Configure optimal disk layout for ASM
- Performs initial configuration of Disks & ASM Disk Group(s)

Appliance Manager Software

Deployment

Oracle Database Class Options

- **Very small**
200 processes, 16Mb log buffer, SGA 4096-8192Mb, PGA 2048-4096Mb, 1Gb redolog file
- **Small**
400 processes, 16Mb log buffer, SGA 8192-16384Mb, PGA 4096-8192Mb, 1Gb redo log file
- **Medium**
600 processes, 32Mb log buffer, SGA 16384-24576Mb, PGA 8192-12268Mb, 2Gb redolog file
- **Large**
1200 processes, 64Mb log buffer, SGA 24576-49152Mb, PGA 12288-24576Mb, 4Gb redolog file
- **Very Large**
2400 processes, 64Mb log buffer, SGA 49152Mb, PGA 24576Mb, 4Gb redolog file

ORACLE®

Appliance Manager Software

Validation

- Validation tools provides detailed information about the both hardware and software
- System components based on ILOM sensor data
- OS disks and file system information
- Shared storage and multipathing information
- Disk performance
- Public and private network components

Appliance Manager Software

Storage Management

- Oracle Appliance Manager Daemon (oakd) is started during boot
- Discovers storage subsystem
- Tracks configuration, layout, and status of storage
- Monitor disks for hard/soft failures
- Generate alerts on failures including slot#
- Takes corrective action on appropriate events
- Interacts with ASM for complete automation

Appliance Manager Software

Patching

- Provides a single interface and command to patch all the components including OS, firmware, BIOS, Grid Infrastructure (GI), Database and Appliance Manager Software
- Patching will update the repository to reflect the newly installed patches and firmware
- No user input is required to apply the patch

Appliance Manager Software

Diagnostic Tools

- Diagget tool collect all the diagnostics information and can be used when experiencing problems
 - OS logs, Clusterware logs, Database log and trace files, Cluster Health monitor (CHM), Appliance Manager log including validation logs, ifconfig, fdisk, etc.
- Healthcheck can be used to check the health of OS, Database, Clusterware and other Database Appliance components to ensure they are healthy and functionally optimally.

Easy to Manage

Appliance Manager Software

- One-button patching for entire stack
- Self-managing features pre-configured
 - Automatic Storage Management, Automatic Memory Management,
 - Automatic detection and correction of many failure conditions
- Fast problem diagnosis
 - Automated Service Request filing (phone home)
 - Relevant logs gathered and packaged for Oracle support
- Single point of contact for all support issues
- Phones home automatically to file Service Requests

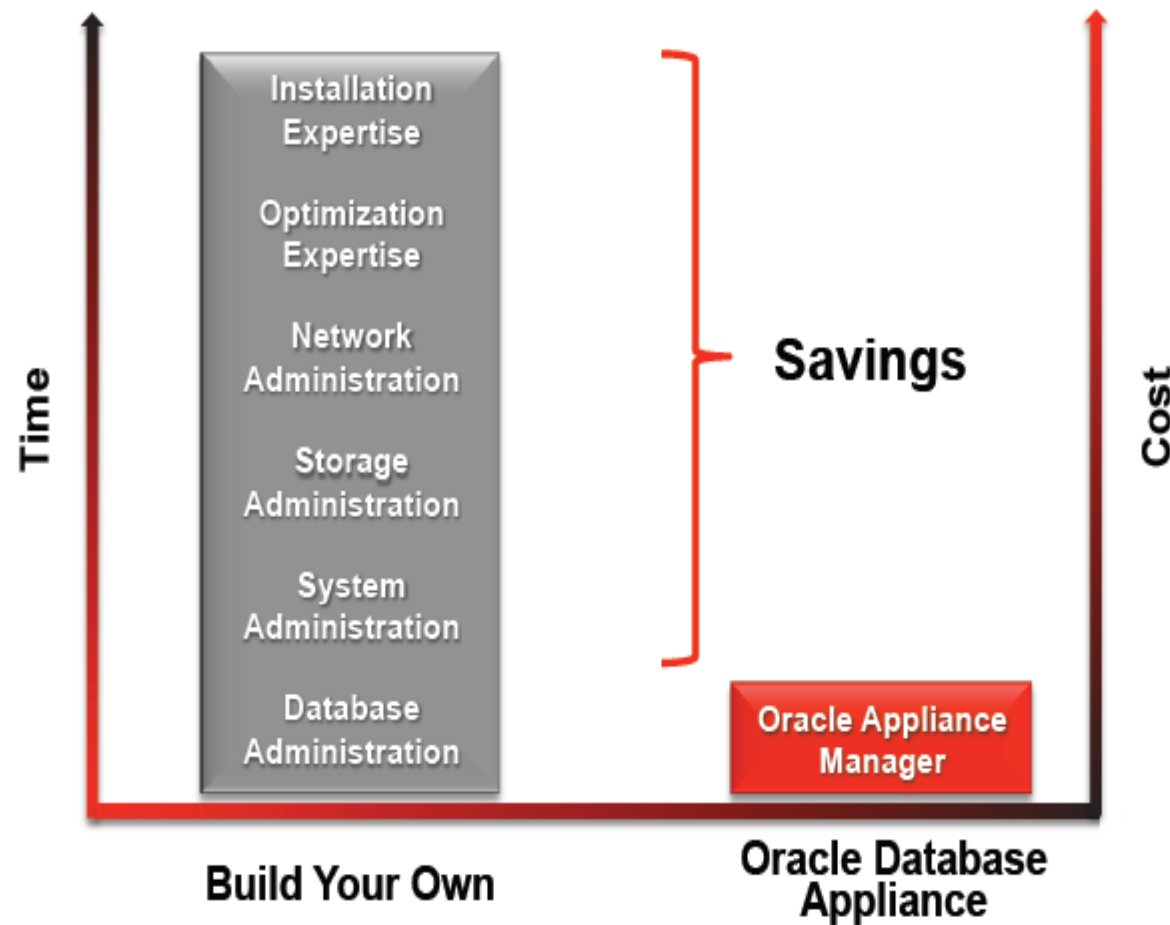
ORACLE

■ ‘Pay-as-you-Grow’ Database Licensing

- **Single** hardware configuration list: \$50,000
- Normal Oracle Database licensing rules
 - All database options eligible to be licensed
 - Licenses can be transferred on and off the appliance
- Database licensing scales from 2-24 processors
 - No hardware upgrades required
 - License database software just for the cores you use

Easy to Deploy, Manage, and Maintain

Reduced Installation and Administration Effort



Low Capital and Operational Cost for High Availability

HP



- 24 processor cores
- Manual configuration & installation
- Multiple-vendor support contracts
- **Minimum 24** processor core licenses

Oracle Database Appliance



- 24 processor cores
- One-button configuration & installation
- Single-vendor support contract
- **Minimum 2** processor core licenses

ORACLE®

ORACLE® Platinum
Partner

When to Use the Oracle Database Appliance

Ideal for SMBs and Departmental Systems

- Higher availability for application databases
- Fast, efficient replacement of aging servers
 - Easy migration to full Oracle stack
 - New hardware without need for new licenses
- New database deployments with growing or unknown capacity requirements
- Consolidation of small databases

ORACLE

Engineered Systems for Oracle Database

**Oracle Database
Appliance**



Quarter Rack



Half Rack



Full Rack

**Oracle Exadata
Database Machine**

ORACLE®

ORACLE® Platinum
Partner

“We ran 9 of our most complex processes on the Oracle Database Appliance, and executed them in a fraction of the time it takes on our existing platforms. The multi-core head room enables us to do much more, with much less equipment, in much less time! That’s truly great bang for the buck!”

Jason Scinocca

Chief Technology Officer, CallSource Inc.



ORACLE®

ORACLE® Platinum
Partner

En Conclusión

Oracle Database Appliance

Highly Available Database System in a Single Box

- Simple
 - Complete, plug-and-go hardware and software
 - Easy to implement, manage and maintain
- Reliable
 - Highly available database cluster configured in minutes
 - Advanced management features and single vendor support
- Affordable
 - Capacity on pay-as-you-grow basis
 - Consolidation platform for small databases

ORACLE



Para mayor información o compras por favor contáctenos:

Martín Cabarique

martin.cabarique@red-partner.com

T. 593 2 600-77-77



Imagen adaptada - Oracle Corp.