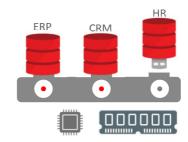


Oracle Database Appliance

Database Platform

- Business critical databases
 - OLT and data warehouses
 - Runs Oracle's high availability software suite including Oracle Real Application Clusters
- Consolidated databases
 - Supports Multitenant and In-Memory database options
- Test and development databases
 - Quickly and efficiently provision snapshots



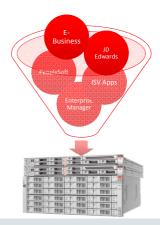


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Oracle Database Appliance

Application Platform

- Host all tiers (web, middleware, database) on a single system
 - Simplifies deployment and reduces data center footprint
 - Ideal for branch office and remote deployments
- Solution-in-a-box made easy with comprehensive best practices white papers and automation wizards
 - Oracle applications
 - JD Edwards, E-Business Suite, PeopleSoft, Flexcube, Weblogic, Enterpise Manager, etc
 - ISV applications
 - IFS, mFormation, Temenos, etc
 - Customer developed applications



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Oracle Database Appliance X5-2

- 2 Servers, each with
 - 36 Intel Xeon CPU cores
 - 256 GB memory, expandable to 768 GB
 - Redundant InfiniBand Interconnect
 - 10 GbE Public Network
- Storage Shelf
 - 800 GB flash log storage
 - − 1.6 TB flash cache storage
 - 64 TB HDD



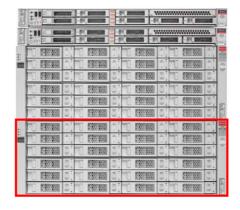
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ODA X5-2 Storage Expansion Shelf

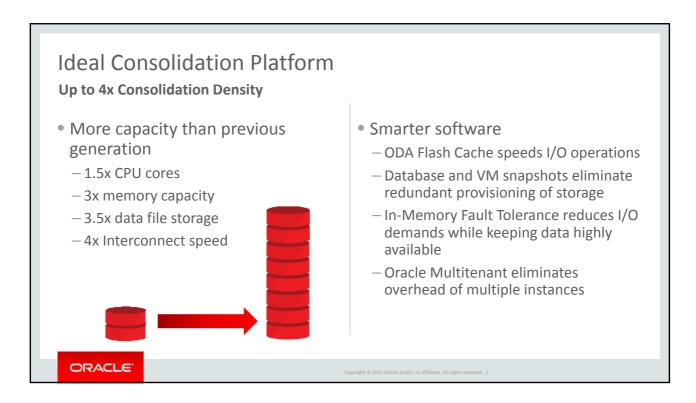
Zero-Admin/Online Storage Expansion

- Double available storage capacity
 - Additional 64 TB HDD, 128 TB total for DATA
 - Additional 800 GB SSD, 1.6 TB total for REDO
 - Additional 1.6 TB SSD, 3.2 TB total for FLASH
- Zero administration
 - Automatically integrates when plugged in
 - Data automatically distributes to new shelf
- Online expand storage
 - Hot-plug storage expansion shelf
 - No database downtime



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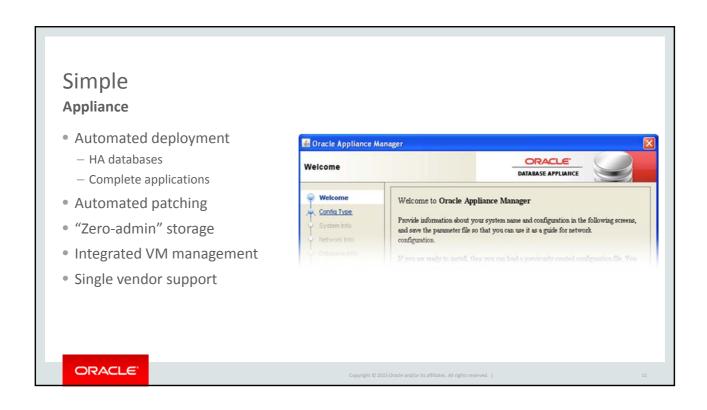
Complete

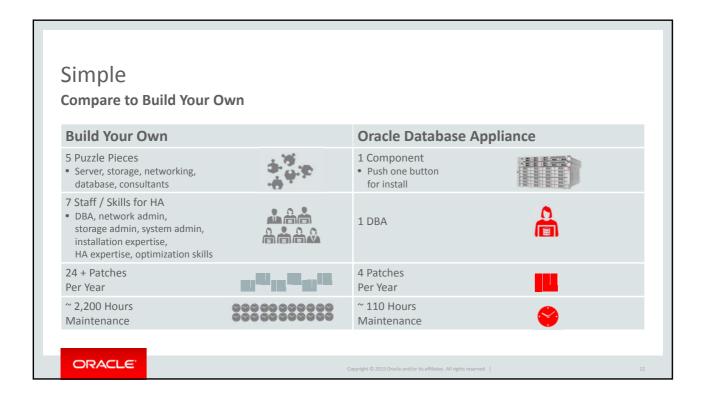
Database and Application Solution

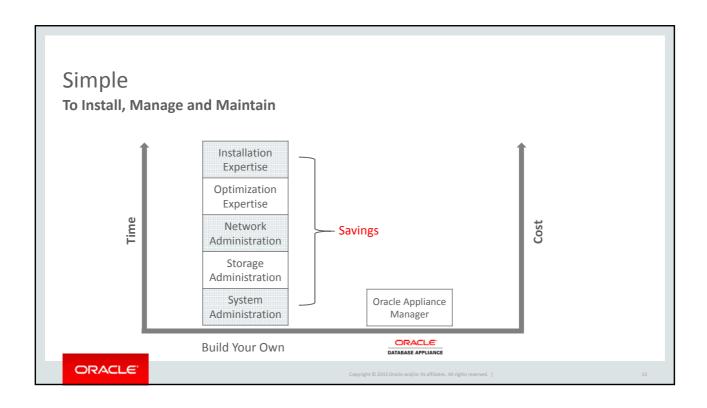
- Everything necessary for a HA database solution in a single appliance
 - Breaks the dependency on others for specialized expertise
 - Easy and fast to order: 1 part number buys it all
- Integrated virtualization enables hosting applications and database in single appliance
 - Reduces floor space, power, cooling costs
 - Easier to deploy and manage in branch offices
- Best practices and automation speeds time to market
 - Quickly deploy entire platform for any x86 application

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Reliable No Single Point of Failure Hardware Software • Two dual-socket Oracle Linux servers • Oracle Database Enterprise Edition - Industry leading database for high availability, • Redundant private interconnect performance, and security Redundant public networks Single-instance and high availability configurations • Double-mirroring or triple-mirroring • Oracle's high availability software suite storage redundancy Redundant and high performance shared storage • Redundant hot-swappable power, - High availability monitoring and failover cooling, and fans No single points of failure • Oracle Linux and integrated virtualization • Oracle Appliance Manager for easy deployment, management, and support ORACLE!

Reliable

Best in Class Availability

Active - Active

- Best Availability
- Oracle Database 12c & 11g **Enterprise Edition**
- Oracle Real Application Clusters
- Mutual failover and load balancing

Active - Passive

- Better Availability
- Oracle Database 12c & 11g **Enterprise Edition**
- Oracle Real Application Clusters One Node
- Can have mutual failover

Single Instance

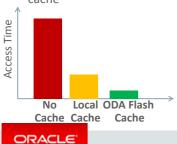
- Good Availability
- Oracle Database 12c & 11g **Enterprise Edition**

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Reliable

Performance optimized by Oracle: Up to 6x Faster

- ODA Flash Cache
 - Flash Cache shared across nodes
 - Increases cache hit rate for your applications
 - Up to 6x faster than no cache

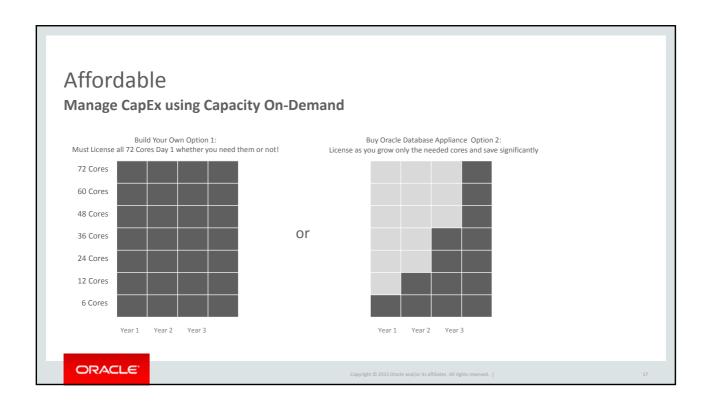


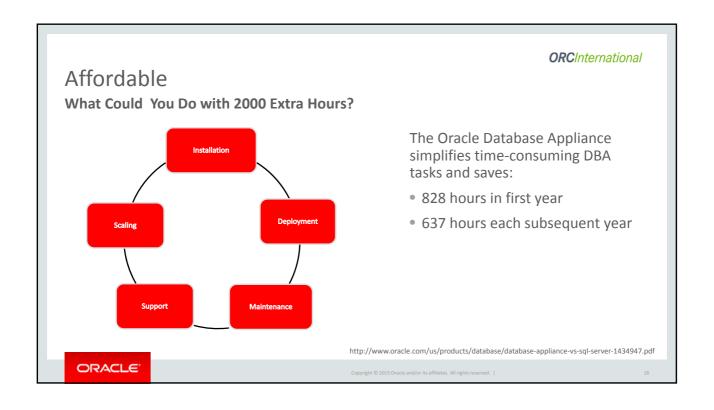
- ODA Flash Logs
 - Database writes redo to flash
 - Sub-millisecond log writes
 - Up to 4x faster than log writes to traditional storage media



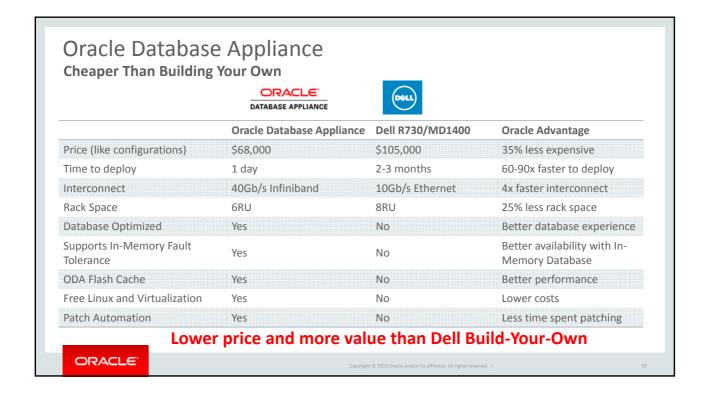
- ODA Flash Files
 - Stores file system metadata in flash
 - Improves file system read and writes
 - Native file system performance for snapshots







Oracle Database Appliance Simpler, More Reliable, More Affordable than VCE Vblock ORACLE:			
	DATABASE APPLIANCE VCE		
	Oracle Database Appliance	VCE Vblock System 100	Oracle Advantage
Price	\$68,000	\$180,000	2.7x less expensive
Cores	72	48	1.5x the compute power
Memory	512GB	192GB	2.7x the memory
HDD	64TB	6TB	10x storage space
SDD	2.4TB	0	Infinite times the flash
Time to deploy	1 day	30 days	30x faster to deploy
Interconnect	40Gb/s Infiniband	10Gb/s Ethernet	4x faster interconnect
Rack Space	6RU	24RU	4x less rack space
Database Optimized	Yes	No	Better database experience



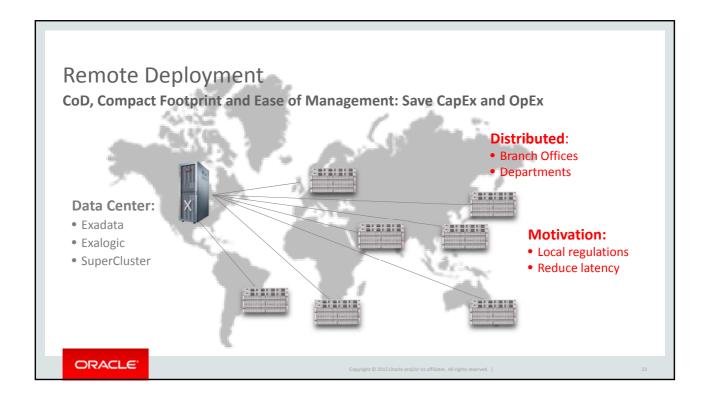
Oracle Database Appliance Complete, Simple, Reliable, Affordable

- Lower Capital Expenses
 - CoD aligns license spend to demand
- Reduced Operational Expenses
 - Fewer expensive high skilled resources
 - Reduced time spent on maintenance
- Faster Time to Market
 - Bring new functionality to market more rapidly
- Better Availability
 - Built-in high availability and best practices lead to greater uptime



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Oracle Database Appliance Deployment Examples



Remote Deployment

Customer Challenges

- Duplicating main datacenter Exadata deployment is often not affordable for smaller remote sites
 - However, customers need to run the same applications and databases in those environments.
- Skill sets not available in many remote locations
- Creating and maintaining a highly available hardware and software configuration
- Managing the hardware and software remotely
- Data center space cost when charged by footprint or rack usage
- Aligning costs to demand

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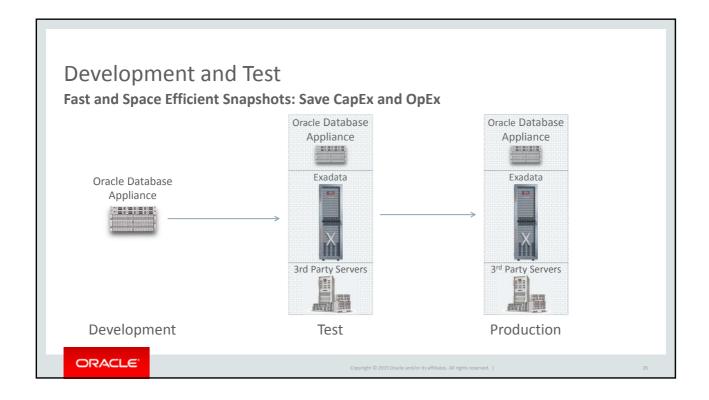
Remote Deployment

Customer Benefits

- Runs the same applications and databases as the central datacenter Exadata systems
- Highly available database and application platform out of the box, limits the skill levels required at remote sites and reduces fault recovery
- Integrated Lights Out Management, automatic monitoring and call home support enable remote management
- Compact footprint reduces datacenter charges
- Capacity On-Demand licensing enables you to align your costs to demand
 - Start small and grow without replacing/upgrading hardware

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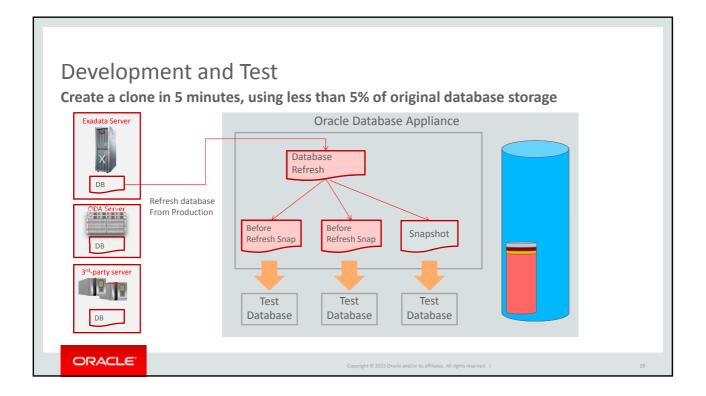
Development and Test

Customer Challenges

- Each developer and tester needs their own environment to:
 - Develop new offerings and features
 - Test a new offering prior to going into production
 - Test new feature enhancements prior to going into production
- Need a system to validate backup and recovery process and procedures
- Development and testing is an iterative process many cycles, can be nightly
 - Creating development environments and test environments takes time, storage and staff
 - Need multiple copies of the database
 - DBA time required to create and monitor creation of copies
 - Low value use of DBA time

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Development and Test

Customer Benefits

- CapEx savings
 - EMC and NetApp charge for either database snapshots or snapshot management, or both
 - Snapshots on ODA are free
 - Storage used more efficiently, reducing the need to purchase additional storage
- OpEx savings
 - Reduce staff time required to provision development and test environments
 - 5 minutes to clone a 1 TB database versus one hour to create a copy
 - Each developer and tester has their own environment, improving productivity
 - Doesn't require specialized hardware and associated skills to snapshot NAS or SAN environments
- Revenue acceleration
 - Bring new offerings and features to market quicker with higher quality



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