



Oracle Database Appliance X11 Model Family



APPLIANCE SIMPLICITY.

HIGH RELIABILITY AND SECURITY.

LOW COST.

Jan 2025

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INTRODUCTION

Oracle Database Appliance (ODA) is the world's only appliance designed for Oracle databases. It's an Oracle Engineered System that is simple, reliable, secure, and low-cost. The Oracle Database Appliance has been adopted worldwide across industries by a wide range of customers. The unique end-to-end automation makes it simple to deploy, operate, and support the full database software and hardware stack. It is a trusted solution for small and medium enterprises to power all their database needs and for the largest enterprises to power departments and remote sites. Oracle Database Appliance enables customers to run Oracle Databases and applications, and all types of workloads are supported, including OLTP, Analytics, in-memory, databases, and artificial intelligence (AI).

The Oracle Database Appliance is designed by the best Oracle experts, the Oracle Database engineering team. The latest generation model family includes the Oracle Database Appliance X11-S, Oracle Database Appliance X11-L, and Oracle Database Appliance X11-HA. The Oracle Database Appliance X11 model family offers the lowest cost for an Oracle Engineered System, with the Oracle Database Appliance X11-S. Combined with flexible Oracle Database software licensing, the Oracle Database Appliance X11 model family brings Oracle Engineered Systems within reach of every organization.

The Oracle Database Appliance X11-HA is optimized to run Oracle Real Application Clusters where high availability is required, whereas the Oracle Database Appliance X11-S and X11-L expand the database appliance's reach to support customers requiring only single-instance databases and smaller workloads.

The Oracle Database Appliance X11 model family is ideal for customers who seek to avoid the complexity, tuning requirements, and higher costs of multi-vendor database solutions. Customers can now take advantage of Oracle Engineered Systems that meet their budget and deployment requirements while realizing the benefits of a reliable database solution with built-in Oracle best practices and single-vendor support.

Oracle Database Appliance supports both Oracle 19c and 23ai databases, and it is the only platform that allows Oracle Database Standard Edition 2 to run on servers that use CPU chips that are based on multi-chip modules (MCM).

ORACLE DATABASE APPLIANCE – A HISTORY OF PROVEN SUCCESS

Organizations of all sizes and types find it difficult, time-consuming, and risky to deploy and maintain robust database environments. Oracle has addressed this by developing the Oracle Database Appliance family—a simple, reliable, secure, and low-cost engineered systems portfolio with integrated compute, storage, networking, and software. The Oracle Database Appliance enables customers to quickly deploy, maintain, and support Oracle Database environments.

Since its initial release in 2011, the Oracle Database Appliance has become popular for a variety of use cases, including running small and medium businesses, deployment as a centralized or branch office database solution, test and development environments, and all-in-one ISV solutions containing both applications and databases. Customers benefit from the cost savings associated with consolidating multiple databases and other workloads on a single system as well as from capacity-on-demand licensing. They also experience operational and time savings from simple and integrated high availability, full stack patching, and disaster recovery.

ORACLE DATABASE APPLIANCE X11 MODEL FAMILY – ORACLE ENGINEERED SYSTEMS WITHIN REACH FOR EVERY ORGANIZATION

The Oracle Database Appliance X11 model family is the ninth generation of the Oracle Database Appliance. Each appliance consists of hardware and software that save customers time and money by simplifying deployment, maintenance, and support of Oracle Database environments. Exhibit 1 below illustrates the broad range of performance and capacity choices provided by the Oracle Database Appliance X11 model family.

EXHIBIT 1. THE ORACLE DATABASE APPLIANCE X11 MODEL FAMILY OFFERINGS SPAN A BROAD RANGE OF CAPACITY AND PERFORMANCE CAPABILITIES

Oracle Database Appliance X11

Available in three increasingly powerful models to meet your needs

Small

Oracle Database Appliance X11-S



Single server

32 processor cores
Up to 768GB memory
13.6TB SSD storage

Large

Oracle Database Appliance X11-L

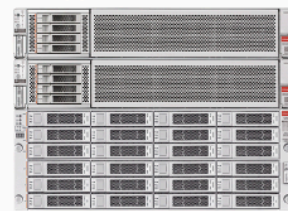


Single server

64 processor cores
Up to 1.5TB memory
Up to 54TB SSD storage

Highly Available Cluster

Oracle Database Appliance X11-HA



2 Server Highly Available Cluster

128 processor cores
Up to 3TB memory
Up to 396TB of shared SSD storage

More speed and capacity



Built using the world's most popular database, Oracle Database, the appliances offer customers fully integrated systems of software, servers, storage and networking that deliver optimized database services for a wide range of custom and packaged OLTP, Data Warehousing, In-Memory Database workloads, and artificial intelligence.

All Oracle Database Appliance Models are optimized to run Oracle Database Enterprise Edition and Standard Edition 2. With Oracle Database Enterprise Edition, customers can take advantage of capacity-on-demand licensing, which enables customers to align software spending with business growth. The Oracle Database Appliance X11-S and Oracle Database Appliance X11-L are ideal for customers who require single instance databases on an engineered platform. The Oracle Database Appliance X11-HA is ideal for customers who are looking to consolidate multiple databases onto a highly available and scalable engineered system.

SIMPLE TO IMPLEMENT, MANAGE, AND SUPPORT

SIMPLE TO IMPLEMENT

The hallmark of the Oracle Database Appliance is its simplicity. Each appliance is a complete system consisting of hardware and software integrated to work together to save customers time and money.

To deploy and use the Oracle Database Appliance, simply unpack it, plug in the power cords, plug in the network cables, and run the Oracle Appliance Manager installation to provision a highly optimized database system. The browser user interface (BUI) quickly gathers all the configuration parameters to streamline system provisioning with a few easy steps. The Oracle Database Appliance accelerates time-to-value as a single database administrator (DBA) can deploy a highly optimized Oracle database in less than one hour.

SIMPLE TO MANAGE AND SUPPORT

Maintaining systems and keeping all the associated software elements current with the latest patches is often one of the most time-consuming and error-prone tasks confronting administrators. The Oracle Database Appliance and its specially engineered software streamlines patching for all the elements of the software stack - firmware, operating system, storage management, and database software, through appliance patch bundles. It eliminates the guesswork of mixing and matching patches for various elements of the hardware and software stack. This reduces human error and ultimately results in less planned downtime and higher system reliability due to the fully tested patch bundles that can be quickly and safely applied. To patch the entire system, simply select the appropriate patch bundle in the Appliance Manager BUI to validate it and update the full software stack.

Database lifecycle management is simplified with Oracle Database Appliance. Databases can be easily provisioned according to Oracle's best practices through the Appliance Manager BUI and patched with a few easy steps. Database backup and recovery is integrated into the Appliance Manager with the option to backup locally, to external storage, or to the Oracle Cloud directly through the browser user interface.

Exhibit 2. ORACLE DATABASE APPLIANCE – APPLIANCE MANAGER BROWSER USER INTERFACE (BUI)

The screenshot displays the Oracle Database Appliance Appliance Manager Browser User Interface (BUI). The interface is titled "ORACLE Database Appliance" and shows the system name "System: odat11ha1sc1" and the current user "Current User: odadmin". The main navigation menu includes "Appliance", "Database", "Repository Manager", "Credential Store", "Monitoring", "Security", "Multi-User Access", "Activity", and "Diagnostics". The "Appliance" section is active, showing "System Information" and "Disk Group Information".

System Information

ID: 2111-2-HA
Platform: X11-2-HA
Data Disk Count: 40
CPU Core Count: 64
DCS Agent:
DCS Admin:
DCS Controller:
OS: Oracle Linux Server release 8.10
Kernel: 5.4.17
Total Memory Available: 502.00 GB
Created: Sat, Dec 28, 2024, 09:15:27 PM GMT

Host Name:
Domain Name: us.oracle.com
Time Zone: GMT
DNS Servers:
NTP Servers:
ASM Port: 1525

User Information

Multi User Status: Multi User Access (MUA)

Disk Group Information

Name	Redundancy	Physical Total Space	Physical Free Space	Logical Free Space
DATA	FLEX	324.15 TB	321.45 TB	107.15 TB - 160.72 TB
RECO	FLEX	36.01 TB	32.30 TB	10.76 TB - 16.15 TB
FLASH	FLEX	41.91 TB	41.74 TB	13.91 TB - 20.87 TB

The appliance automates storage management with Automatic Storage Management (ASM) integration and by automatically detecting performance and availability issues and performing corrective actions. The Appliance Manager also tracks system and database information and displays the information directly in the BUI. In addition, the Auto Service Request (phone home) feature will generate support requests for the replacement of failed hardware components such as power supplies, fans, etc.

When a problem occurs with a multi-vendor system, DBAs spend a lot of time initially trying to discern the source of the problem to determine which vendor to call first. With the Oracle Database Appliance troubleshooting is much simpler and faster because all the elements, software, and hardware, are supported by Oracle. Rather than requiring a DBA or System Administrator to manually search for and compile all the logs and system history when issuing a support request, the Appliance Manager automatically collects and compiles the relevant logs and history, allowing issues to be processed, analyzed, and fixed much more quickly.

A RELIABLE, ENGINEERED DATABASE SOLUTION

All the appliances in the Oracle Database Appliance X11 model family are engineered together at both the hardware and software levels to work holistically to run the Oracle Database reliably. The unique integration with Oracle database ensures security and availability through all types of outages and updates. The Oracle Database is also configured with database-sizing templates that ensure system resources are optimized for the database according to Oracle best practices. The Oracle Database Appliance provides a complete highly available database cluster with unique appliance simplicity and full-stack security.

SERVER

As shown in Table 1 – the entry model, the Oracle Database Appliance X11-S, is a two-rack unit (2RU) server that contains one 32-core AMD EPYC™ 9J15 (9335) processor, providing up to 32 enabled-on-demand processor cores and 256 GB of memory (expandable to 768 GB) per appliance.

The Oracle Database Appliance X11-L is also a 2RU server but contains more cores and memory. This appliance contains two 32-core AMD EPYC™ 9J15 (9335) processors, providing up to 64 enabled-on-demand processor cores and 512 GB of memory (expandable up to 1.5 TB) per appliance.

The Oracle Database Appliance X11-HA is the only appliance which provides two 2RU servers in the base configuration that contain two 32-core AMD EPYC™ 9J15 (9335) processors per server, providing up to 128 enabled-on-demand processor cores and 1 TB of memory expandable up to 3 TB per appliance.

TABLE 1. ORACLE DATABASE APPLIANCE X11 MODEL FAMILY SUMMARY

	Oracle Database Appliance X11-S	Oracle Database Appliance X11-L	Oracle Database Appliance X11-HA
Size	Two rack unit (2RU) server	Two rack unit (2RU) server	Eight rack unit (8RU) server/storage
Processor	One 32-core AMD EPYC™ 9J15 (9335)	Two 32-core AMD EPYC™ 9J15 (9335)	Two 32-core AMD EPYC™ 9J15 (9335)
Memory	256 GB - expandable to 768 GB	512 GB - expandable to 1.5 TB	1 TB – expandable to 2 TB per server (Up to 3 TB per HA appliance)
Networking	Up to three NICs: 4 x 10GBase-T ports (RJ45) expandable up to 12 x 10GBase-T ports or 2 x 10/25 GbE ports (SFP28) expandable up to 6 x 10/25 GbE ports	Up to three NICs: 4 x 10GBase-T ports (RJ45) expandable up to 12 x 10GBase-T ports or 2 x 10/25 GbE ports (SFP28) expandable up to 6 x 10/25 GbE ports	Up to three NICs per server: 4 x 10GBase-T ports (RJ45) expandable up to 12 x 10GBase-T ports or 2 x 10/25 GbE ports (SFP28) expandable up to 6 x 10/25 GbE ports

Storage	Two 6.8 TB NVMe SSDs - offering 13.6 TB (raw) Not expandable	Base System: two 6.8 TB NVMe SSDs offering 13.6 TB (raw) Expandable up to 54.4 TB (raw)	Base System: six 7.68 TB SSDs offering 46 TB (raw) Expandable up to 368 TB SSD or up to 92 TB SSD / 792 TB HDD (Raw)
Oracle Database	<ul style="list-style-type: none"> Oracle Database 23ai Enterprise Edition, Standard Edition 2 (DB System only) Oracle Database 19c Enterprise, Edition, Standard Edition 2 	<ul style="list-style-type: none"> Oracle Database 23ai Enterprise Edition, Standard Edition 2 (DB System only) Oracle Database 19c Enterprise, Edition, Standard Edition 2 	<ul style="list-style-type: none"> Oracle Database 23ai Enterprise Edition, Standard Edition 2 (DB System only) Oracle Database 19c Enterprise Edition, Standard Edition 2
DB Deployment	Single Instance	Single Instance	Single Instance, RAC, RAC One Node
Virtualization	Oracle Linux KVM	Oracle Linux KVM	Oracle Linux KVM

NETWORKING

All models in the Oracle Database Appliance X11 model family provide 10/25 GbE SFP28 (fiber) or 10GBase-T (copper) external networking connectivity, ensuring the systems will be compatible with any data center.

STORAGE

The Oracle Database Appliance X11-S and X11-L incorporate NVM Express (NVMe) flash storage to increase database performance and system reliability. The number of processor cores, amount of main memory, and NVM Express (NVMe) storage capacity in each fully integrated system is balanced to provide optimal database performance for a wide range of enterprise application workloads. Both the Oracle Database Appliance X11-S and X11-L have 13.6 TB of raw NVMe storage. The Oracle Database Appliance X11-L is expandable up to 54.4 TB of raw NVMe storage.

The Oracle Database Appliance X11-HA servers share a direct-attached storage enclosure, offering high availability and performance for mission-critical workloads. The storage shelf in the base system is partially populated with six solid-state drives (SSDs) totaling 46 TB of raw storage capacity. The Oracle Database Appliance X11-HA also supports optional storage expansion that enables the appliance to scale up to 368 TB SSD or 92 TB SSD and 792 TB HDD of raw data storage by fully populating the storage shelf with an additional eighteen 7.68 TB SSDs or eighteen 22 TB HDDs, respectively and adding a second fully populated storage shelf.

To expand storage outside of the Oracle Database Appliance X11 models, external NFS storage is supported for online backups, data staging, or additional database files.

All of the Oracle Database Appliance X11 models incorporate Oracle Automatic Storage Management (ASM) that, in conjunction with the Appliance Manager, automatically configures, manages, and monitors storage performance and availability.

SOFTWARE

The models in the Oracle Database Appliance X11 model family support the following database, operating system and management software:

TABLE 2. DATABASE AND OS SOFTWARE FOR ORACLE DATABASE APPLIANCE X11 MODEL FAMILY

Oracle Operating System and Appliance Manager Software

- Oracle Linux – Pre-installed
 - Oracle Appliance Manager – Pre-installed
 - Oracle Linux Kernel-based Virtual Machine (KVM) – Pre-installed and optional to use
-

Database Software (Installed using the Appliance Manager)

-
- Choice of Oracle Database Software:
 - Oracle Database 23ai Enterprise Edition, Standard Edition 2
 - Oracle Database 19c Enterprise Edition, Standard Edition 2
 - Oracle Real Application Clusters (Supported on X11-HA)
 - Oracle Real Application Clusters One Node (Supported on X11-HA)
 - Oracle Automatic Storage Management (ASM)
 - Oracle ASM Cluster File System (ACFS)
-

ORACLE DATABASE 23ai

Oracle Database 23ai is available for Oracle Database Appliance, empowering customers to harness the latest advancements in data management technology. It is the latest long-term support release and introduces a comprehensive set of innovative features and capabilities, such as AI Vector Search, JSON Relational Duality, True Cache, and a built-in SQL Firewall, among over 300 other improvements, solidifying Oracle's leadership in database technology. Oracle Database Appliance provides an ideal, cost-effective platform for running Oracle Database 23ai, simplifying deployment, maintenance, and management.

ORACLE DATABASE SOFTWARE LICENSING

As shown in Table 1, the Oracle Database Appliance X11-S and X11-L support Oracle Database Enterprise Edition and Oracle Database Standard Edition 2. Combined with Oracle Database Standard Edition, these entry-level engineered systems are ideal for small enterprises, line-of-business departments, and branch office deployments that don't require enterprise-class features, enabling them to realize the benefits of the Oracle Database Appliance to reduce costs and improve productivity.

The Oracle Database Appliance X11-HA is optimized as a high-availability database solution using Oracle Real Applications Clusters (RAC) or Oracle Real Applications Clusters One Node (RAC One Node) for "active-active" or "active-passive" database server failover. As a result, the Oracle Database Appliance X11-HA offers the highest availability of any system in its class.

Customers who choose to deploy Oracle Database Enterprise Edition databases on any appliance within the Oracle Database Appliance X11 model family can take advantage of a unique capacity-on-demand database software licensing model to quickly scale utilized processor cores without any hardware upgrades. Customers can deploy the system and license as few as 2 processor cores in the appliance and incrementally scale up to the maximum physical processor cores in each system. This enables customers to deliver the performance and reliability that enterprise business users demand, and align software spend with business growth. Oracle database licensing savings alone can pay for Oracle Database appliance hardware. Savings from labor, system software, automation, reliability, and data compression add further value.

ENTERPRISE EDITION HIGH AVAILABILITY (EEHA) AND STANDARD EDITION HIGH AVAILABILITY (SEHA)

Oracle Database Appliance exclusively supports Enterprise Edition High Availability (EEHA). It is the only platform where EEHA runs with Oracle Grid Infrastructure, providing cluster-based failover for single-instance Oracle Database 19c and 23ai, with the ODA High Availability model. The integrated Standard Edition High Availability (SEHA) uses Oracle Grid Infrastructure to provide cluster-based failover for Oracle Database 19c, and 23ai Standard Edition 2 databases (with ODA HA model only).

ORACLE DATABASE X11 STANDARD EDITION 2 SUPPORT

Oracle Database Appliance X11 is the only platform with Multi-Chip Module (MCM) processors that supports Oracle Database Standard Edition 2 (SE2). Refer to the "About License Options for Oracle Database Standard Edition 2" section in the Oracle Database Appliance Licensing Information User Manual for the licensing rules.

INTEGRATED VIRTUALIZATION SUPPORT

Virtualization provides IT cost savings and better resource utilization through the consolidation of multiple physical servers as Virtual Machines in an Oracle Database Appliance. It helps reduce space, power, and cooling for data centers and provides isolation for workloads to improve service quality for applications and databases.

Oracle Database Appliance supports two types of Kernel-based Virtual Machines (KVM) that can be quickly deployed using built-in user interfaces: Application KVM and Database KVM (a.k.a. database system). In an application KVM, customers manage the installation and maintenance of the application, while in the Database KVM, the Oracle Database Appliance manages the installation and maintenance of the Oracle Database.

KVM database systems enable hard partitioning for Oracle Database licensing, where each KVM database system can have its own CPU pool that is automatically assigned during KVM database system creation or share a CPU pool. Refer to the Oracle Database Appliance “Licensing Information User Manual” for licensing details. Oracle Database Appliance simplifies the management of KVM database systems with the built-in user interface. Oracle Database Appliance X11-HA also provides built-in high availability features, auto-restart, and failover for applications KVMs.

SOLUTION-IN-A-BOX THROUGH VIRTUALIZATION

Oracle Database Appliance X11-HA enables customers and ISVs to quickly deploy database and application workloads on a single Oracle Database Appliance. Support for virtualization adds additional flexibility to the already complete and fully integrated database solution by providing isolation between database and application instances.

Customers and ISVs benefit from a complete solution that efficiently utilizes resources and takes advantage of capacity-on-demand licensing for multiple workloads by leveraging Oracle KVM hard partitioning.

LOW COST – THE ORACLE DATABASE APPLIANCE COST ADVANTAGE

The Oracle Database Appliance X11 model family offers purpose-built, low-cost hardware and software solutions for all businesses. It provides everything you need to run mission-critical databases at no extra cost. Combined with the flexibility to run various Oracle Database software editions and capacity-on-demand licensing, the Oracle Database Appliance X11 model family provides capital expenditure savings. All the appliances also offer low operational costs throughout the life of the machines, through a dramatic reduction in time spent on hardware and software maintenance, a direct result of the efficiencies and increased automation provided by the Oracle Appliance Manager.

CAPACITY-ON-DEMAND LICENSING

Oracle Database Appliance’s unique licensing rules can dramatically lower database license costs. For customers who choose to deploy Oracle Database Enterprise Edition databases on any appliance within the Oracle Database Appliance X11 model family, they can deploy the system and license as few as 2 processor cores to run their database servers, and incrementally scale up to the maximum number of processor cores in each system. This unique Oracle Database software licensing advantage provides customers with significant upfront capital expenditure cost savings.

OPERATING EXPENDITURE SAVINGS

In addition to offering purpose-built, low-cost hardware, and flexible Oracle Database software licensing, the Oracle Database Appliance X11 model family has a much lower cost of ownership than a multi-vendor system. Customers save time they would ordinarily spend researching compatible components, creating and processing multiple orders across multiple vendors, waiting for all the various elements to arrive, and then assembling and validating the multi-vendor system. More importantly, a multi-vendor system will not have the Oracle Appliance Manager.

The Appliance Manager is a comprehensive, easy-to-use utility that makes deployment, patching, and support of the Oracle Database Appliance easy, quick, and intuitive. It provides intelligent storage management features that monitor the health of the storage and quickly resolve any issues that may affect performance and availability. Independent analysts rate Oracle Database Appliance as offering up to 5 times faster time to value and 6 times lower labor costs compared to multi-vendor systems, making it both quicker to implement and more cost-efficient to operate.¹

Savings can be realized in all three stages of the system’s lifecycle: from the initial deployment, to performing on-going maintenance, and to resolving support issues. Table 3 highlights the difference in tasks required for a multi-vendor system versus the tasks required for the models in the Oracle Database Appliance X11 model family.

TABLE 3. COMPARATIVE SAVINGS WITH ORACLE DATABASE APPLIANCE X11 MODEL FAMILY

Lifecycle stage	Multi-vendor Systems	Oracle Database Appliance X11 Model Family
Initial Deployment	<ul style="list-style-type: none"> • Sizing • Create orders with multiple vendors with different business terms • Research best practices • Assemble • Install, patch, and configure • Test unique configuration • Resolve issues 	<ul style="list-style-type: none"> • Order Oracle Database Appliance • Unpack, plug-in • Run Oracle Appliance Manager
Maintenance	<ul style="list-style-type: none"> • Research patch dependencies • Download individual patches for firmware, operating system, database • Test unique configuration 	<ul style="list-style-type: none"> • Download Patch Bundle for Oracle Database Appliance • Run Oracle Appliance Manager
Support	<ul style="list-style-type: none"> • Troubleshoot configuration with support • Locate log files • File SRs with one or more system component vendors • Wait 	<ul style="list-style-type: none"> • Run Oracle Appliance Manager • Configure Auto Service Request (ASR)

¹ <https://www.oracle.com/a/ocom/docs/dc/evaluating-hyperconverged-full-stack-solutions.pdf>

COMMON USE CASES

The Oracle Database Appliance X11 model family supports a variety of common use cases including:

- Simple, Highly Reliable and Secure, Low-Cost Database System
- Database Platform for Growing Deployments
- Consolidation Platform for Databases and Applications
- Branch Office and Departmental Deployments
- Rapid Provisioning of Test and Development Environments

APPLIANCE SIMPLICITY, HIGH RELIABILITY AND SECURITY, LOW COST SYSTEM

The models in the Oracle Database Appliance X11 model family will appeal to customers looking for low cost, optimized database systems for online transaction processing (OLTP) and data warehousing workloads that are easy to implement and maintain. Deploying highly optimized database systems can be challenging and time-consuming, often requiring experienced systems, database, and storage administration skills. With the Oracle Database Appliance, a single DBA can deploy a highly optimized database platform in less than an hour. The broad product offerings of the Oracle Database Appliance X11 model family of systems also provide a range of availability and disaster recovery implementation options to meet various SLA requirements.

DATABASE PLATFORM FOR GROWING ENVIRONMENTS

New projects about to be put into production can take several years to ramp up to the expected workload levels. Oftentimes, the “expected workload levels” are just a guess – the real workload ramp-up can vary considerably from the initial forecast or plan. Because of this uncertainty, IT organizations are leery of purchasing and deploying excess capacity upfront prior to the point at which it is actually needed. With the affordability of the Oracle Database Appliance, customers can now deploy the fully provisioned system and grow into the software capacity they need over time by activating only the cores they need when they need them. In addition, optional memory and storage expansion allows customers the flexibility to expand each Oracle Database Appliance model as needed.

CONSOLIDATION PLATFORM FOR DATABASES AND APPLICATIONS

Many IT shops are pursuing database consolidation by taking the databases running on standalone systems and co-locating them on an optimized database system. The Oracle Database Appliance offers a great low-cost solution suited for consolidation efforts. Administrators save time and money by managing a single solution, rather than a multitude of separate servers, operating systems and databases.

The Oracle Database Appliance with optional virtualization can host a complete solution in a single appliance. By hosting multiple databases and applications on a single appliance, significant operational efficiencies in terms of backups, system patching, and upgrades can be achieved. ISV partners can quickly distribute application solutions with Oracle Database Appliance as a solution-in-a-box. Customers benefit from standardized application deployments, reduced deployment time, and lower support costs.

BRANCH OFFICE AND DEPARTMENTAL DEPLOYMENTS

Many organizations have a need to deploy database environments in remote branch office locations or where IT resources are limited or for departmental solutions requiring dedicated resources. Customers can configure the entire solution and quickly deploy it in a remote location or for a departmental application, reducing or possibly eliminating the cost of on-site administrators. Similarly, maintenance and support can be easily performed remotely using the Appliance Manager and the Integrated Lights Out Manager (ILOM) tools built into every appliance in the Oracle Database Appliance X11 model family.

RAPID PROVISIONING OF TEST AND DEVELOPMENT ENVIRONMENTS

Developers require access to database environments for development and testing. Given that the appliances in the Oracle Database Appliance X11 model family can be quickly procured and provisioned, administrators can quickly and reliably provide developers with complete Oracle database test and development environments that improve productivity and efficiency.

All the Oracle Database Appliance models (bare metal) enable quick and space-efficient creation of database copies with ASM Cluster File System (ACFS) snapshots. Combining these features together, administrators can quickly provision each developer with complete test and development environments that improve productivity and efficiency.

INTEGRATED WITH THE ORACLE CLOUD

The Oracle Database Appliance provides a bridge between on-premises deployments and the Oracle Cloud, enabling you to protect your hardware and software investments by offering you the ability to run the same stack in both locations using the same skills and tools.

Customers can also easily back up their on-premises Oracle Database Appliance databases to the Oracle Cloud without having to change any applications, acquire any special training or expertise, or create any detailed backup job scripts. This makes it easy to implement both an on-premises and cloud strategy to support test/dev or even disaster recovery environments in the cloud.

Oracle Database Appliance customers can also seamlessly migrate databases from their on-premises appliance to the Oracle Cloud by simply unplugging a Pluggable Database (PDB) running on the Oracle Database Appliance and then plugging it into a Container Database running in the Oracle Cloud.

CONCLUSION

For customers seeking a simple, reliable, secure, and low-cost database solution, the Oracle Database Appliance X11 model family offers reliable purpose-built hardware and software choices for every organization. The Oracle Database Appliance X11 model runs existing workloads faster and runs more workloads for the same price than the prior generation.

The Oracle Database Appliance is engineered across every level of the technology stack, resulting in easier deployment and upgrades, and more efficient management. With the Oracle Database Appliance X11 model family, customers can bring new services to the market quickly while improving their service levels – adding business value to their company.

To learn more about the Oracle Database Appliance X11 model family, visit: www.oracle.com/oda

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