

ORACLE VM-READY SUN X86 SYSTEMS

Hardware and Software, Engineered to Work Together

ACCELERATE AND SIMPLIFY VIRTUALIZED DEPLOYMENTS

ORACLE'S SUN X86 SYSTEMS NOW OFFER FACTORY INTEGRATED ORACLE VM SOFTWARE, THE ONLY X86 SERVER VIRTUALIZATION CERTIFIED AND SUPPORTED BY ORACLE.

FEATURES

- Server virtualization with zero license cost
- Oracle Linux and Oracle Solaris virtual machines pre-installed – ready to deploy
- Modern, low overhead virtualization architecture for leading price/performance
- Affordable, enterprise-class full stack support

BENEFITS

- Deploy virtualized infrastructure faster
- Fully certified with all Oracle software
- Speed application deployment with Oracle VM Templates
- Greater flexibility and agility in provisioning and services deployments
- Improve application and database performance with next generation x86 systems
- Lower total cost of ownership (TCO)

Oracle offers Oracle VM-ready Sun x86 systems to accelerate and simplify the deployment of your virtualized infrastructure. Oracle's highly scalable and highly reliable Sun Blade and Sun Fire x86 rackmount servers can now be ordered with Oracle VM Server for x86 virtualization software pre-installed - providing a highly efficient and low-overhead solution for both Oracle and non-Oracle applications. The Oracle Optimized Solution for Enterprise Cloud Infrastructure takes that one step further by offering a fully-integrated, tested and configured solution to accelerate enterprise cloud deployments.

The Virtualization Solution for Your Enterprise Server Workloads

CIOs everywhere are looking for ways gain a competitive edge with an IT infrastructure that not only meets their price/performance needs, but provides the flexibility and agility to more easily deploy, manage and support new services. Any solution used to meet these new demands also must address challenges stemming from increasing operating costs, inefficient resource utilization and more stringent service level agreements (SLAs).

Implementing a modernized and virtualized infrastructure from Oracle provides the optimal solution to maximize cost efficiencies while also delivering industry-leading performance and agility.

Oracle's comprehensive, open standards-based Sun x86 clustered systems are engineered together with Oracle's business software and hardware systems portfolio to deliver high performing application-to-disk solutions that can be managed and supported as a single system. Oracle is continuing to expand its x86 systems portfolio and enhance its enterprise cloud and virtualization capabilities with ultra dense blades, advanced networking, and tightly integrated systems management capabilities.

Select Sun x86 systems now also offer Oracle VM Server software as pre-installed option with three virtual machines:

- Oracle VM Manager
- Oracle Linux
- Oracle Solaris

Oracle VM Server for x86 is a server virtualization solution that makes enterprise applications easier to deploy, manage, and support while delivering more efficient performance and lower overhead. Oracle VM-ready systems facilitate the deployment and operation of your enterprise applications on a fully certified platform to reduce operational expense and support costs while simultaneously increasing IT efficiency and agility.

Oracle VM Server for x86 delivers:

**VIRTUALIZATION BEYOND
CONSOLIDATION:**

- Easier to deploy
- Easier to manage
- Easier to support

- **Leading Performance** – Low-overhead architecture with the Xen hypervisor provides scalable performance under increasing workloads to meet the most aggressive performance requirements;
- **Latest Hardware Support** – Leverage the new x86 hardware features for higher performance and more efficient power management;
- **Faster Software Deployment with Oracle VM Templates** – Download and import pre-configured virtual machines containing pre-installed Oracle enterprise applications or other software to get up and running in hours not weeks;
- **Rapid VM Provisioning and Cloning** – Sparse file support in OCFS2 enables significantly faster virtual machine provisioning and cloning; allow users more control over data allocation, improving performance and storage efficiency;
- **Oracle VM Manager Command Line Interface (CLI) and Web Services API** – Enable integration of third party products with Oracle VM Manager;
- **Secure Live VM Migration** – Completely eliminate service outages associated with planned maintenance or scale up your resources quickly by migrating running VMs to other servers over secure SSL links without interruption;
- **High Availability** – Reliably and automatically restart failed VMs on other servers in the server pool after unexpected server- or individual VM outage. New, server pool master auto-failover feature eliminates any single point of failure for virtualization management;
- **Automatic or Manual Server Pool Load Balancing** – Guest VMs are automatically placed on the server with the most resources available in the pool at start-up, or can be started within a user-designated subset of servers;
- **Physical-to-Virtual / Virtual-to-Virtual Machine Conversion** – Quickly convert existing Linux or Windows physical servers or VMDK or VHD virtual machines to Oracle VM virtual machines to reduce license expenses;
- **Virtual CPU Scheduling Priorities and Caps per VM** – Control access to CPU between multiple VMs to align with IT/business priorities;
- **Virtual Machine I/O Resource Management** – Set bandwidth cap for each virtual network interface and prioritize the virtual disks;
- **Importing Block Devices as Shared Virtual Disks** – Block devices can be assigned to VMs, greatly improving performance of applications such as Oracle Real Application Cluster (RAC);
- **Solaris, Linux and Windows Support** – Run Oracle Solaris, Oracle Linux, Red Hat Enterprise Linux and Microsoft Windows guest operating systems on Oracle VM. Windows PV Drivers, signed by Microsoft for the Windows Logo Program, are available to improve Windows guest I/O throughput;
- **Official Certification Based On Real-World Testing** – Supported for use with the most sophisticated enterprise workloads under real-world conditions;
- **Virtualization and Management: Zero License Costs, Zero License Keys** – Include Oracle VM Manager for centralized, browser-based management of your resource pools;
- **Affordable, Full-Stack Enterprise-Class Support** – Worldwide support from Oracle for the entire virtualization environment and workloads together.

DEPLOY APPLICATIONS FASTER

- Oracle Optimized Solution for Enterprise Cloud Infrastructure leverages Oracle's unique ability to factory-integrate key infrastructure components
- Reduce deployment time by as much as 98%, get lower total cost of ownership and improved productivity for enterprises and cloud deployment
- Oracle VM Templates speed deployment of pre-installed and pre-configured software images
- Choose Oracle VM Templates: Oracle Linux, Oracle Solaris, Database, Fusion Middleware, E-Business Suite, PeopleSoft, JD Edwards, Siebel, and many more

Integrated Server Virtualization and Management

Oracle VM Manager is also included on Oracle VM-Ready systems so administrators can get access to advanced functionality to load balance across resource pools and automatically reduce or eliminate outages associated with server downtime.

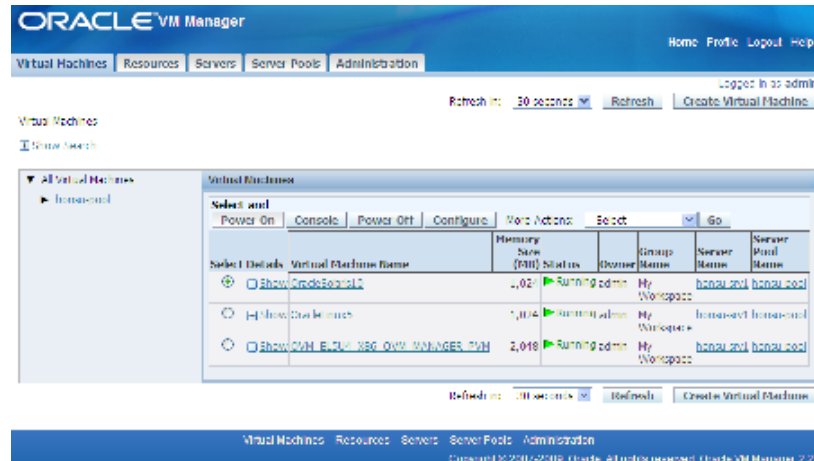


Figure 1. Oracle VM Manager Interface

Rapid Deployment

The [Oracle Optimized Solution for Enterprise Cloud Infrastructure](#) combines Oracle's virtualized Sun Blade server modules, Oracle Solaris or Oracle Linux, Oracle's ZFS Storage Appliances, and Oracle VM, which is fully certified and supported with Oracle Database, Oracle Fusion Middleware and Oracle Applications. Oracle Optimized Solution for Enterprise Cloud Infrastructure leverages Oracle's unique ability to factory-integrate key infrastructure components to provide a complete solution to dramatically reduce the time required to deploy Infrastructure-as-a-Service (IaaS) clouds by as much as 98%, and deliver lower total cost of ownership and improved productivity for enterprises and cloud service providers.

[Oracle VM Templates](#) provide an innovative approach to deploying a fully configured software stack by offering pre-installed and pre-configured software images. Use of Oracle VM Templates eliminates the installation and configuration costs, and reduces the ongoing maintenance costs helping organizations achieve faster time to market and lower cost of operations. Oracle VM Templates of many key Oracle products are available for download, including Oracle Linux, Oracle Solaris, Database, Fusion Middleware, E-Business Suite, PeopleSoft, JD Edwards, Siebel, and many more.

The Certified and Supported Virtualization Environment for Oracle

Oracle performs real-world testing on its broad portfolio of products with Oracle VM to ensure reliability and streamlined support. All new Oracle product releases are certified by default but consult Support Note 464754.1 on the [My Oracle Support](#) website for information on exact product versions certified.

Reduce TCO, Get More Value from your X86 Infrastructure

Oracle's highly scalable servers, with free, enterprise-class virtualization, enable you to

**ENGINEERED TO WORK
TOGETHER**

Oracle is the only vendor to deliver the full stack solution, including integrated server, storage, networking, virtualization, applications, and management for your enterprise infrastructure as well as cloud computing environment.

RELATED PRODUCTS

- [Oracle Virtualization](#)
- [Sun Servers](#)
- [Sun Storage and Tape](#)
- [Sun Networking](#)
- [Oracle Solaris](#)
- [Oracle Linux](#)
- [Oracle VM Templates](#)
- [Oracle Enterprise Manager](#)
- [Oracle Enterprise Manager Ops Center](#)
- [Oracle Optimized Solutions](#)

RELATED SERVICES

- [Oracle Premier Support for Systems](#)
- [Oracle Premier Support for Operating Systems](#)

deploy your existing applications onto fewer, more powerful systems to reduce costs, improve efficiencies, and accelerate the delivery of services to meet changing business needs. By integrating the full hardware, software and support stack, Oracle can [reduce your three-year TCO](#) on its Sun x86 infrastructure by as much as 52% over comparable HP and IBM servers deployed with Red Hat Enterprise Linux and VMware vSphere.

Oracle Support and Services: The Complete Stack

Oracle's world-class support organization offers [Oracle Premier Support for Systems](#), fully integrated, single-price support for Sun system hardware, integrated hardware (such as firmware), Oracle VM software, and operating systems (Oracle Solaris and Oracle Linux).

- Unlimited, 24/7 access to Oracle's Sun system specialists
- Essential patches, feature enhancements, new releases, and lifetime support for covered software
- Two-hour onsite hardware service response (24/7)
- OEM replacement parts and experienced technicians
- Knowledgebase access and configuration-specific update recommendations
- Personalized, proactive support tools

Additionally, Oracle Advanced Customer Services offers production readiness, installation, mission critical support and preventative monitoring services to maximize the value of enterprise cloud infrastructure investments. Oracle Advanced Customer Services offers a suite of services that maximizes the value of your enterprise infrastructure investments.

Through a lifecycle services approach, Oracle experts can help architect customized solutions that reduce deployment risk and help you achieve operational readiness.

Contact Us

For more information, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.



Oracle is committed to developing practices and products that help protect the environment

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Hardware and Software, Engineered to Work Together