Oracle VM VirtualBox is cross-platform virtualization software that allows you to extend your existing computer to run multiple operating systems at the same time. Designed for IT professionals and developers, Oracle VM VirtualBox runs on Windows, Mac OS X, Linux and Oracle Solaris systems and is ideal for testing, developing, demonstrating and deploying solutions across multiple platforms on one machine.

**Easy to Use, Fast and Powerful, Great Platform Coverage**

Designed for use on systems ranging from ultrabooks to high-end server class hardware, Oracle VM VirtualBox is lightweight and easy to install and use. Yet under the simple exterior lies an extremely fast and powerful virtualization engine. With a formidable reputation for speed and agility, Oracle VM VirtualBox contains innovative features to deliver tangible business benefits: significant performance improvements; a more powerful virtualization system; and a wider range of supported guest operating system platforms.
• Virtual webcam
• Multiple virtual screen support
• Powerful and flexible networking options
• USB 1.1/2.0/3.0 and serial ports
• SAS, SATA, SCSI and IDE storage controllers
• Built-in iSCSI initiator
• Built-in Remote Display Server
• Multi-generational branched snapshots
• Linked and full clones
• Controllable copy and paste
• Screen-recording facility
• Disk image encryption
• HiDPI support
• Drag and drop support

**RELATED PRODUCTS**
The following products complement Oracle VM VirtualBox:
- Oracle Linux
- Oracle OpenStack for Oracle Linux
- Oracle Solaris
- Oracle VM Server

**RELATED SERVICES**
The following services support Oracle VM VirtualBox:
- Commercial Licenses
- Product Support Services

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## Easy to Use

- **Improved VirtualBox Manager with further features** – The Oracle VM VirtualBox Manager now supports hot-plug for SATA virtual disks and the option to customize status bar, menu bar and guest-content scaling for each virtual machine deployed;

- **New Introduced Headless and Detachable start options** – The Oracle VM VirtualBox Manager now supports to start virtual machine in the background with a separate frontend process that can be closed while the virtual machine continues to work;

- **Easy to use Wizards** – Wizards help with the creation of new virtual machines. Pre-configured settings are used based on the type of guest OS;

- **Easy import and export of appliances** – Virtual machines can be created, configured and then shared by exporting and importing virtual appliances using industry-standard formats such as .ova;

- **Improved Huge Range of Guest Platforms** – including the very latest Windows 10, Windows Server 2012 R2 and leading edge Linux platforms too.

- **Improved VirtualBox Guest Additions** – Installed inside the guest virtual machine, the Guest Additions provide a more natural user experience. For example, guest windows can be easily resized to arbitrary resolutions, made full-screen or even operate in seamless mode. And data can be copy and pasted to and from, and between, concurrently running machines and the host platform. This functionality is now controllable as bi-directional, uni-directional, or disabled;

- **Shared Folders** – Share your host platform’s filesystem with the guest to facilitate real cross-platform computing;

- **Multi-touch support** – Hosts supporting multi-touch interfaces can now also deliver this to their guests too;

- **Flexible Networking options** – Oracle VM VirtualBox offers a rich range of networking models from easy-to-use NAT networking, to fully functional Bridged networking, and specialist Internal and Host-only networking too. The new “NAT Network” mode allows multiple guests to run on the same internal network, seeing each other, and also the outside world via a new NAT service;

- **IPv6** – IPv6 is now offered as an option in most networking modes alongside IPv4;

- **Virtual Media Manager** – Oracle VM VirtualBox supports the widest range of virtual disk formats from its own native .vdi format to those offered by Microsoft (.vhd), VMware (.vmdk), and Parallels (.vdd). The Virtual Media Manager tool now allows conversions between formats using an easy to use graphical user interface;

- **Video Capture** – A built-in recording mechanism of the guest’s screen contents. Easy to start and stop, recording one or more virtual screens to the standard webm format.
Performance and Power

- **Improved Latest Intel and AMD hardware support** – Harnessing the latest in chip-level support for virtualization, Oracle VM VirtualBox supports even the most recent AMD and Intel processors bringing faster execution times for everything from Windows to Linux and Oracle Solaris guests. But VirtualBox will also run on older hardware without VT support;

- **Improved Instruction Set extended** – More instruction set extensions available to the guest when running with hardware-assisted virtualization; this include also AES-NI that improve the speed of applications performing encryption and decryption using Advanced Encryption Standard (AES);

- **New Paravirtualization Support** – VirtualBox allows exposing a para-virtualization interface to facilitate accurate and efficient execution of software by leveraging built-in virtualization support of modern Linux and Microsoft Windows;

- **New Disk Image Encryption** – VirtualBox allows to encrypt data stored in hard disk images transparently for the guest. VirtualBox uses the AES algorithm and supports 128 or 256-bit data encryption keys;

- **Improved Bi-Directional Drag and Drop support** – On all host platforms, Windows, Linux and Oracle Solaris guests now support “drag and drop” of content between the host and the guest. The drag and drop feature transparently allows copying or opening of files, directories, and more;

- **High-performance storage I/O subsystem** – Oracle VM VirtualBox offers a wide range of virtual storage controllers including SAS, SATA, SCSI and IDE controllers. VirtualBox utilizes an asynchronous I/O virtual disk subsystem to achieve high-performance whilst maintaining high data integrity;

- **Built-in iSCSI Initiator** – Oracle VM VirtualBox includes an iSCSI initiator that allows virtual disks to exist as iSCSI targets. The guest sees a standard storage controller but disk accesses are translated into iSCSI commands and sent across the network;

- **3D graphics and video acceleration** – The Guest Additions feature new, improved display drivers that accelerate 3D graphics by intercepting OpenGL and Direct3D calls in the guest and leveraging the host’s GPU to render the images and video onto the screen.

- **Remote Display Protocol** – The unique built-in VirtualBox Remote Display Protocol (VRDP) enables powerful remote, graphical access to the console of the guest. Microsoft RDP capable clients can connect to one or more remote monitors, with USB device redirection when using rdesktop-based clients. VRDP is now also accessible over IPv6;

- **Improved Serial and USB connections** – External devices can be connected to guests, with specific USB devices selected by a powerful filter mechanism; now VirtualBox supports up to USB 3.0 devices;

- **Virtual webcam** – On hosts with cameras, VirtualBox now exposes a virtual webcam allowing guests running apps such as Skype or Google Hangouts to use the host camera;
• **High-Definition audio** – Guests enjoy the rich audio capabilities of an Intel high-definition audio card;

• **Full ACPI support** – The host’s power status is fully available to the guest and ACPI button events can be sent to the guest to control the lifecycle of the virtual machine;

• **Linked and full clones** – Oracle VM VirtualBox makes it easy to clone virtual machines. Clones can be full copies of configuration information and virtual disks, or may share a parent virtual disk for faster cloning and greater storage efficiency;

• **Multi-generational and branched snapshots** – Snapshots allow a user to revert to previous known states. Take a snapshot before installing software, then revert to the snapshot to recover the pre-installation state;

• **Page Fusion** – Traditional Page Sharing techniques have suffered from long and expensive cache construction as pages are scrutinized as candidates for de-duplication. Taking a smarter approach, VirtualBox Page Fusion uses intelligence in the guest virtual machine to determine much more rapidly and accurately those pages which can be eliminated thereby increasing the capacity or VM density of the system;

• **Resource controls** – Host resources such as CPU execution, disk and network I/O can be capped or throttled to protect against rogue guests consuming excessive amounts;

• **Guest automation** – The guest automation APIs have been extended to allow host-based logic to drive operations in the guest including update of the Guest Additions;

• **Web services** – A Web service API enables remote control of VirtualBox by authorized clients.

**Platforms**

• **Commercially supported platforms** – Oracle VM VirtualBox enables you to install and run a huge range of host and guest platforms. Oracle offers commercial support for the most popular guest operating systems, assuring customers of expert help when they need it.

  • **New Oracle Linux 7** – Support for the latest version of Oracle's flagship Linux platform;

  • **New Ubuntu and Fedora** – Support for both the desktop and server versions of the most popular Ubuntu Linux and Fedora distributions;

  • **New Mac OS X 10.10 “Yosemite”** – The latest Mac OS X platform from Apple.

Please refer to the User Manual for complete information on the use of these and other new features in Oracle VM VirtualBox.
# System Requirements

<table>
<thead>
<tr>
<th>Hardware Requirements:</th>
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<tbody>
<tr>
<td><strong>Processor</strong></td>
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<td><strong>Memory</strong></td>
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## Host Platform Requirements (Commercially supported):

<table>
<thead>
<tr>
<th>Windows</th>
<th>Mac OS X</th>
<th>Linux hosts (32-bit and 64-bit)</th>
<th>Oracle Solaris hosts (64-bit)</th>
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</thead>
<tbody>
<tr>
<td>Windows Vista SP1 and later (32-bit and 64-bit)</td>
<td>• 10.8 (Mountain Lion, 32-bit and 64-bit)</td>
<td>• Oracle Linux 5, 6 and 7</td>
<td>• Solaris 11, 11.1</td>
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<tr>
<td>Windows Server 2008 (32-bit and 64-bit)</td>
<td>• 10.9 (Mavericks)</td>
<td>• Ubuntu: 10.04 (“Lucid Lynx”) to 15.04 (“Vivid Vervet”)</td>
<td>• Solaris 10 (u10 and higher)</td>
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<tr>
<td>Windows Server 2008 R2 (32-bit and 64-bit)</td>
<td>• 10.10 (Yosemite)</td>
<td>• Red Hat Enterprise Linux 5, 6 and 7</td>
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<tr>
<td>Windows 7 (32-bit and 64-bit)</td>
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<td>• SUSE Linux Enterprise Server 11, 12</td>
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<tr>
<td>Windows 8 (32-bit and 64-bit)</td>
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<td>• Fedora Core/Fedora 6 to 22</td>
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<tr>
<td>Windows 8.1 (32-bit and 64-bit)</td>
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<td>Windows Server 2012</td>
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<tr>
<td>Windows Server 2012 R2</td>
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