

# Instrucciones Virtual Box

Acceded a la página de [virtualbox](#) e id a la página de [descargas](#):

The screenshot shows the official website for Oracle VM VirtualBox. At the top left is the Oracle logo. The main title "VirtualBox" is prominently displayed. On the left sidebar, there's a navigation menu with links: "About", "Screenshots", "Downloads" (which is circled in red with a red arrow pointing to it), "Documentation", "End-user docs", "Technical docs", "Contribute", and "Community". To the right of the sidebar is the main content area. The header says "Welcome to VirtualBox.org!". Below it is a paragraph about the product. A large blue button in the center says "Download VirtualBox 7.0". Underneath the button, there's a section titled "Hot picks:" with three items. To the right of the main content is a "News Flash" sidebar containing a list of recent releases.

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# VirtualBox

About

Screenshots

Downloads

Documentation

End-user docs

Technical docs

Contribute

Community

## Welcome to VirtualBox.org!

VirtualBox is a powerful x86 and AMD64/Intel64 virtualization product for enterprise as well as home use. Not only is VirtualBox an extremely feature rich, high performance product for enterprise customers, it is also the only professional solution that is freely available as Open Source Software under the terms of the GNU General Public License (GPL) version 3. See "[About VirtualBox](#)" for an introduction.

Presently, VirtualBox runs on Windows, Linux, macOS, and Solaris hosts and supports a large number of [guest operating systems](#) including but not limited to Windows (NT 4.0, 2000, XP, Server 2003, Vista, 7, 8, Windows 10 and Windows 11), DOS/Windows 3.x, Linux (2.4, 2.6, 3.x, 4.x, 5.x and 6.x), Solaris and OpenSolaris, OS/2, OpenBSD, NetBSD and FreeBSD.

VirtualBox is being actively developed with frequent releases and has an ever growing list of features, supported guest operating systems and platforms it runs on. VirtualBox is a community effort backed by a dedicated company: everyone is encouraged to contribute while Oracle ensures the product always meets professional quality criteria.

**Download VirtualBox 7.0**

**Hot picks:**

- Pre-built virtual machines for developers at [Oracle Tech Network](#)
- **Hyperbox** Open-source Virtual Infrastructure Manager [project site](#)
- **phpVirtualBox** AJAX web interface [project site](#)

**News Flash**

- **New October 17th, 2023**  
VirtualBox 7.0.12 released!  
Oracle today released a 7.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New October 17th, 2023**  
VirtualBox 6.1.48 released!  
Oracle today released a 6.1 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New July 18th, 2023**  
VirtualBox 7.0.10 released!  
Oracle today released a 7.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New July 18th, 2023**  
VirtualBox 6.1.46 released!  
Oracle today released a 6.1 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New April 18th, 2023**  
VirtualBox 7.0.8 released!  
Oracle today released a 7.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New April 18th, 2023**

Os recomendamos la **versión 7.0.12**. Elegid **vuestro OS** y descargad el instalador

The screenshot shows the VirtualBox website's download section. A red arrow points from the text "Instalador Windows" to the "Windows hosts" link under "VirtualBox 7.0.12 platform packages". Another red arrow points from the text "En caso de usar MAC, tenéis que ver que procesador tenéis:" to the "macOS / Intel hosts" link. A third red arrow points from the text "Para linux, elegid vuestra distribución (ubuntu, fedora...) de esta página." to the "Linux distributions" link.

**VirtualBox**

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**Instalador Windows**

**Download VirtualBox**

Here you will find links to VirtualBox binaries and its source code.

**VirtualBox binaries**

By downloading, you agree to the terms and conditions of the respective license.

If you're looking for the latest VirtualBox 6.1 packages, see [VirtualBox 6.1 builds](#). Version 6.1 will remain **Intel**.

**VirtualBox 7.0.12 platform packages**

- Windows hosts
- macOS / Intel hosts
- Linux distributions
- Solaris hosts
- Solaris 11 IPS hosts

The binaries are released under the terms of the GPL version 3.

See the [changelog](#) for what has changed.

You might want to compare the checksums to verify the integrity of downloaded packages. *The SHA256 checksums should be favored as the MD5 algorithm must be treated as insecure!*

- [SHA256 checksums](#), [MD5 checksums](#)

**Note:** After upgrading VirtualBox it is recommended to upgrade the guest additions as well.

**VirtualBox 7.0.12 Oracle VM VirtualBox Extension Pack**

- All supported platforms

Support VirtualBox RDP, disk encryption, NVMe and PXE boot for Intel cards. See [this chapter](#) from the [User Manual](#) for an introduction to this Extension Pack. The Extension Pack binaries are released under the [VirtualBox Personal Use and Evaluation License \(PUEL\)](#). Please install the same version extension pack as your installed version of VirtualBox.

**VirtualBox 7.0.12 Software Developer Kit (SDK)**

- All platforms

**User Manual**

The VirtualBox User Manual is included in the VirtualBox packages above. If, however, you would like to take a look at it without having to install the whole thing, you also access it here:

En caso de usar **MAC**, tenéis que ver que procesador tenéis:  
● **Intel**.  
● Arquitecturas [ARM](#).

Para **linux**, elegid vuestra distribución (ubuntu, fedora...) de esta [página](#).

Seguid las instrucciones del instalador

La máquina virtual podéis **descargarla** desde este [enlace](#). Comprimida pesa unos 4.3 GB. Una vez descargado, **descomprimimos** el archivo zip



**Abrimos** la máquina virtual



Para añadir la máquina virtual, hacemos uso de la función **Add** en la interfaz de VirtualBox



**Seleccionamos** este archivo

			mar	09:42
Logs				
Snapshots				
ParticleCounter_lubuntu.vbox	5,0 kB	VirtualBox Machine Definition	mar	10:06
ParticleCounter_lubuntu-1.17-linux.vbox	4,8 kB	VirtualBox Machine Definition	18 ene 2022	14:34

En este punto ya tenemos la máquina virtual **importada** y podemos empezar a usarla.

The screenshot shows the Oracle VM VirtualBox Manager interface. On the left, a sidebar lists the virtual machine 'ParticleCounter\_lubuntu' (Powered Off). The main window displays configuration details for this machine, including:

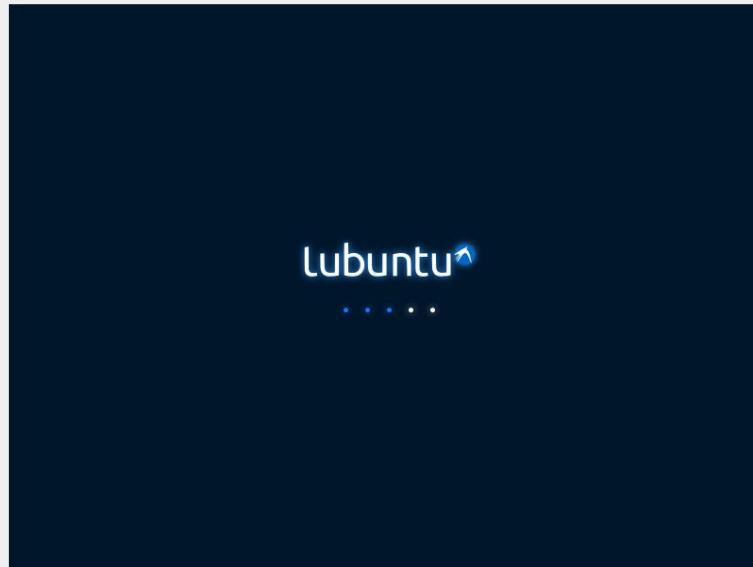
- General:** Name: ParticleCounter\_lubuntu, Operating System: Ubuntu (64-bit)
- System:** Base Memory: 2048 MB, Boot Order: Floppy, Optical, Hard Disk, Acceleration: Nested Paging, KVM Paravirtualization
- Display:** Video Memory: 16 MB, Graphics Controller: VMSVGA
- Storage:** Controller: IDE, IDE Secondary Device 0: [Optical Drive] Empty, Controller: SATA, SATA Port 0: ParticleCounter\_lubuntu.vdi (Normal, 9,60 GB)
- Audio:** Host Driver: PulseAudio, Controller: ICH AC97
- Network:** Adapter 1: Intel PRO/1000 MT Desktop (NAT)
- USB:** USB Controller: OHCI, Device Filters: 0 (0 active)
- Shared folders:** None

A red arrow points from the text 'Para iniciar simplemente le damos a start' to the 'Start' button in the toolbar at the top of the window. Another red arrow points from the text 'Antes de empezar, revisad los recursos asignados a la máquina virtual.' to the 'Storage' section of the configuration pane.

**Antes de empezar,  
revisad los recursos  
asignados a la máquina  
virtual. Por ejemplo, si  
teneis 4 Gb de RAM, no  
le podéis dar 4Gb a la  
Máquina virtual o  
vuestra OS  
simplemente se  
“congelará”**

File Machine View **Output** Devices Help

Los settings de **visualización** los tenéis  
aquí



File Machine View Input Devices Help

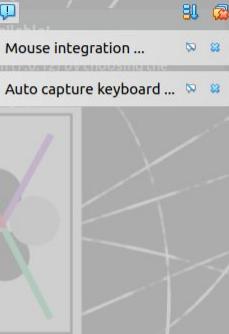


Carpeta de  
GEANT4

Terminal

# Particle Counter

VirtualBox Guest Additions update a  
Your guest is currently running the Guest  
recommend updating to the latest vers  
install option from the Devices menu.



File Machine View Input Devices Help



Mouse integration ...  
Auto capture keyboard ...

```
user@ParticleCounter: ~/Desktop/master2024
File Edit Tabs Help
user@ParticleCounter:~$ cd Desktop/master2024/
user@ParticleCounter:~/Desktop/master2024$ ls
CMakeLists.txt data include main.cc source.mac src vis.mac
user@ParticleCounter:~/Desktop/master2024$
```

# Particle ~~unter~~

Enjoy!

File Machine View Input Devices Help



```
user@ParticleCounter: ~/Desktop/master2024
File Edit Tabs Help
user@ParticleCounter:~$ cd Desktop/master2024/
user@ParticleCounter:~/Desktop/master2024$ ls
CMakeLists.txt data include main.cc source.mac src vis.mac
user@ParticleCounter:~/Desktop/master2024$
```

**Close Virtual Machine**

You want to:

- Save the machine state
- Send the shutdown signal
- Power off the machine

**OK**

# Particle Counter

Para apagar usamos esta opción. Los cambios (trabajo que hagáis) se quedarán guardados.