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The error "VirtualBox can't operate in VMX root mode. Please disable the KVM kernel extension, recompile your kernel and reboot (VERR_VMX_IN_VMX_ROOT_MODE)" indicates a conflict where both VirtualBox and KVM (Kernel-based Virtual Machine) are attempting to utilize the same hardware virtualization features (like Intel VT-x or AMD-V) on your Linux host system. Since only one hypervisor can access these features at a time, you need to ensure KVM is not active when using VirtualBox. 🔗

Here's how to address this issue:

1. Temporarily Disable KVM:

This is useful for immediate use without a permanent change. Identify KVM modules.

Código	📋

```
lsmod | grep kvm
```

This command will show you the loaded KVM modules, typically `kvm_intel` (for Intel CPUs) or `kvm_amd` (for AMD CPUs), and `kvm`. Unload the modules.

Código	📋

```
sudo rmmod kvm_intel  # Or kvm_amd if you have an AMD CPU
sudo rmmod kvm
```

After unloading, you can start your VirtualBox VM. Note that KVM will likely reload on the next reboot.

2. Permanently Disable KVM (or prevent it from loading virtualization at boot):

This provides a more persistent solution. Option A: Blacklist KVM modules.

Create a new file in `/etc/modprobe.d/` (e.g., `blacklist-kvm.conf`) and add the following lines:

Código	📋

```
blacklist kvm_intel
```

Then, update your initramfs:

```
Código                                              ⧉

    sudo update-initramfs -u
```

And reboot your system. Option B: Modify GRUB configuration.

Edit the GRUB configuration file, usually located at `/etc/default/grub`.
Find the line starting with `GRUB_CMDLINE_LINUX_DEFAULT` and add
`kvm.enable_virt_at_load=0` to it. For example: 🔗

```
Código                                              ⧉

    GRUB_CMDLINE_LINUX_DEFAULT="quiet splash kvm.enable_virt_at_load=0"
```

Save the file, then update GRUB:

```
Código                                              ⧉

    sudo update-grub
```

And reboot your system.

Important Considerations:

- **Recompiling your kernel:** The error message suggests recompiling your kernel.
  While this is a more involved solution, the methods above generally achieve the
  desired outcome of preventing KVM from interfering with VirtualBox without
  requiring a full kernel recompile.

- **Impact on other virtualization software:** Disabling KVM will prevent other KVM-
  based virtualization software (like `virt-manager` or GNOME Boxes) from
  functioning. If you need to use both VirtualBox and KVM-based solutions, you will
  need to manage KVM's state (loading/unloading modules) as needed.

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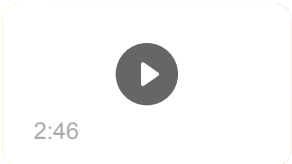
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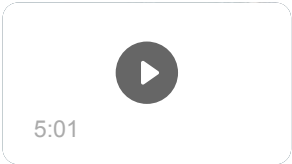## Solución al Error "VirtualBox can't operate in VMX root mode ...

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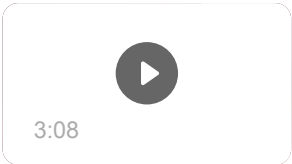
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