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r/Proxmox • 4 yr. ago

chimera-zen



Proxmox PCI(e) Passthrough in 2 minutes

This guide will take you through the process of preparing Proxmox 6.3 for PCI(e) passthrough and creating a Windows 10 VM with an NVIDIA GTX970 graphics card passed through to both Console and RDP. If you have any suggestions for improving it, feel free to let me know! There's a more in-depth version on [Home Lab Guides: Proxmox 6 — PCI\(e\) Passthrough with NVIDIA](#)

I've confirmed that I can play War Thunder and League of Legends through RDP and Console with miniscule delay on local network (not sure about remote RDP but I imagine it's not good unless you have a really good upload speed).

NOTE: This will not work on an existing VM. Something about the processor is written during VM creation that prevents this from working if the processor model isn't declared prior to VM creation.

The 2 minute guide to Proxmox PCI(e) Passthrough

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gregorthebigmac • 4y ago

Why would you set the CPU type to a specific type, rather than simply using "host" type? That's what I did for mine when I got it working last summer, and had no issues.



13



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chimera-zen **OP** • 4y ago

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I think this is also why I can still Console after setting the GPU and display to VirtIO

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thenickdude • 4y ago

When booting in UEFI mode from a ZFS root disk, Proxmox boots using systemd-boot rather than grub, so it'll never see edits made to `/etc/default/grub`. systemd-boot uses `/etc/kernel/cmdline` for this instead (the file needs to be created).

Set device to use All functions and PCI Express. DO NOT set as primary GPU!

I think you're leaving primary GPU unticked so that you still retain the emulated console? You can explicitly set `vga:std` instead and it'll retain the console even with Primary GPU ticked. Then you can set `vga:none` to remove it.

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edfreitag • 4y ago

Great guide!

But for those that do almost lose their minds: You may be running systemd (uefi) (check with `"mount |grep efi"`). If you do, the GRUB process will not work. You need to add the options to the file `/etc/kernel/cmdline` and then run `"pve-efiboot-tool refresh"`

Source: <https://forum.proxmox.com/threads/not-able-to-activate-iommu-on-zfs-with-uefi.76640/>

<https://forum.proxmox.com/threads/how-to-activate-iommu-with-uefi.62846/>

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procheeseburger • 3y ago

if people are still using this guide, on step 6 you need to add `-u`

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[deleted] • 4y ago

There appears to be missing info for step 6.

↑ 4 ↓ ○ Reply ...

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In my case for Kernel 5.4

- vfio_iommu_type1 is already built into kernel and not needed in modules
- I enabled unsafe interrupts in GRUB_CMDLINE: `vfio_iommu_type1.allow_unsafe_interrupts=1`
- (in QEMU VM conf) `cpu: host,hidden=1,flags=+pcid` (didn't work without hidden)
- some people will need "nofb video=efifb:off" in GRUB

EDIT: also this in `/etc/modprobe.d/pve-blacklist.conf`

```
blacklist nvidiafb
blacklist nvidia
blacklist radeon
blacklist nouveau
```

This is for Intel iGPU as host GPU, if your host GPU is one of these - you don't need to blacklist it (and if your host gpu and guest gpu use the same driver, it's a whole another can of worms – you'll need to block initialization on boot via device ID).

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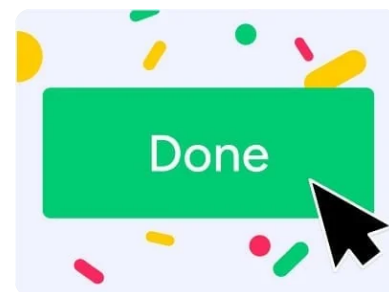
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**tracyjacks8cowboydan** • 4y ago

Thanks. This gave me bit I needed for something else.

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**paulstelian97** • 3y ago[Top 1% Commenter](#)

Does this work with integrated graphics? Or only dedicated?

[Skip to main content](#)[Log In](#)**Pgnee** • 2y ago

Still works, however for other newbies Step 9 occurs after you create the VM before you boot it. I was stuck forever on this!

Also, because I used vlan, I had to enable vlan of my internet to get that working in the network adapters section.

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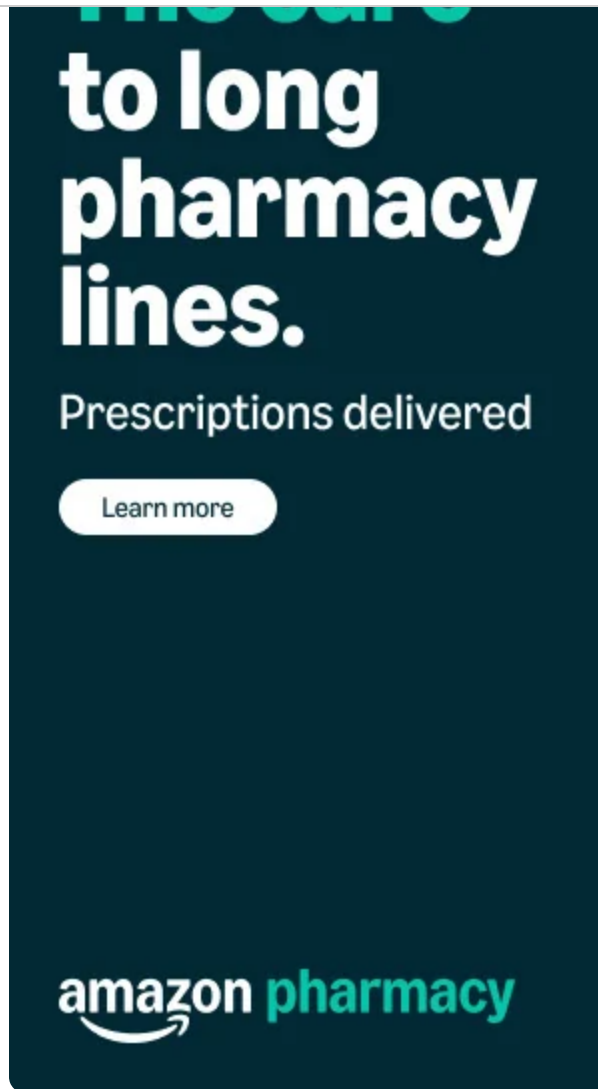
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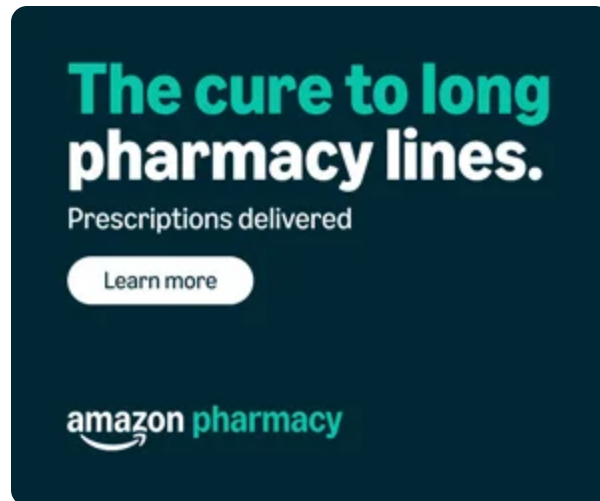
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I wrote a version of the KVM hiding kernel patch for Intel CPUs that offsets the TSC by the exit time

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