

AMD Ryzen 8845HS iGPU Passthrough 3
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AMD Ryzen 8845HS iGPU Passthrough

Proxmox

Proxmox iGPU

/etc/default/grub

```
GRUB_CMDLINE_LINUX_DEFAULT="quiet amd_iommu=on iommu=pt  
pcie_acs_override=downstream,multifunction pci=noaer pcie_aspm=off"
```

- iommu=pt : IOMMU
- pcie_acs_override=downstream,multifunction : IOMMU

/etc/modules

```
vfio  
vfio_iommu_type1  
vfio_pci  
vfio_virqfd
```

/etc/modprobe.d/blacklist.conf

```
blacklist amdgpu  
blacklist radeon  
blacklist nouveau  
blacklist nvidia*
```

/etc/modprobe.d/kvm.conf

```
options kvm ignore_msrs=1 report_ignored_msrs=0  
options kvm-amd nested=1
```

lspci -nvv

```
01:00.0 VGA compatible controller [0300]: Advanced Micro Devices, Inc.  
[AMD/ATI] Phoenix3 [1002:1900] (rev d5) (prog-if 00 [VGA controller])  
Subsystem: Advanced Micro Devices, Inc. [AMD/ATI] Device [1002:0124]  
Flags: bus master, fast devsel, latency 0, IRQ 42, IOMMU group 25  
Memory at 7c00000000 (64-bit, prefetchable) [size=256M]
```

```
Memory at dc000000 (64-bit, prefetchable) [size=2M]
I/O ports at f000 [size=256]
Memory at dc500000 (32-bit, non-prefetchable) [size=512K]
Capabilities: [48] Vendor Specific Information: Len=08 <?>
Capabilities: [50] Power Management version 3
Capabilities: [64] Express Legacy Endpoint, IntMsgNum 0
Capabilities: [a0] MSI: Enable- Count=1/4 Maskable- 64bit+
Capabilities: [c0] MSI-X: Enable+ Count=4 Masked-
Capabilities: [100] Vendor Specific Information: ID=0001 Rev=1
Len=010 <?>
Capabilities: [270] Secondary PCI Express
Capabilities: [2a0] Access Control Services
Capabilities: [2b0] Address Translation Service (ATS)
Capabilities: [2c0] Page Request Interface (PRI)
Capabilities: [2d0] Process Address Space ID (PASID)
Capabilities: [410] Physical Layer 16.0 GT/s <?>
Capabilities: [450] Lane Margining at the Receiver
Kernel driver in use: vfio-pci
Kernel modules: amdgpu

01:00.1 Audio device [0403]: Advanced Micro Devices, Inc. [AMD/ATI] Radeon
High Definition Audio Controller [Rembrandt/Strix] [1002:1640]
Subsystem: Advanced Micro Devices, Inc. [AMD/ATI] Radeon High
Definition Audio Controller [Rembrandt/Strix] [1002:1640]
Flags: fast devsel, IRQ 255, IOMMU group 26
Memory at dc5c8000 (32-bit, non-prefetchable) [disabled] [size=16K]
Capabilities: [48] Vendor Specific Information: Len=08 <?>
Capabilities: [50] Power Management version 3
Capabilities: [64] Express Legacy Endpoint, IntMsgNum 0
Capabilities: [a0] MSI: Enable- Count=1/1 Maskable- 64bit+
Capabilities: [100] Vendor Specific Information: ID=0001 Rev=1
Len=010 <?>
Capabilities: [2a0] Access Control Services
Kernel driver in use: vfio-pci
Kernel modules: snd_hda_intel
```

VGA id 1002:1900 AUDIO id 1002:1640 vfio .

/etc/modprobe.d/vfio.conf

```
options vfio-pci ids=1002:1900,1002:1640
options vfio-pci disable_idle_d3=1

softdep radeon pre: vfio-pci
softdep amdgpu pre: vfio-pci
softdep snd_hda_intel pre: vfio-pci
```

disable_idle_d3 .

```

update-initramfs -u -k all
update-grub
proxmox-boot-tool refresh

reboot

```

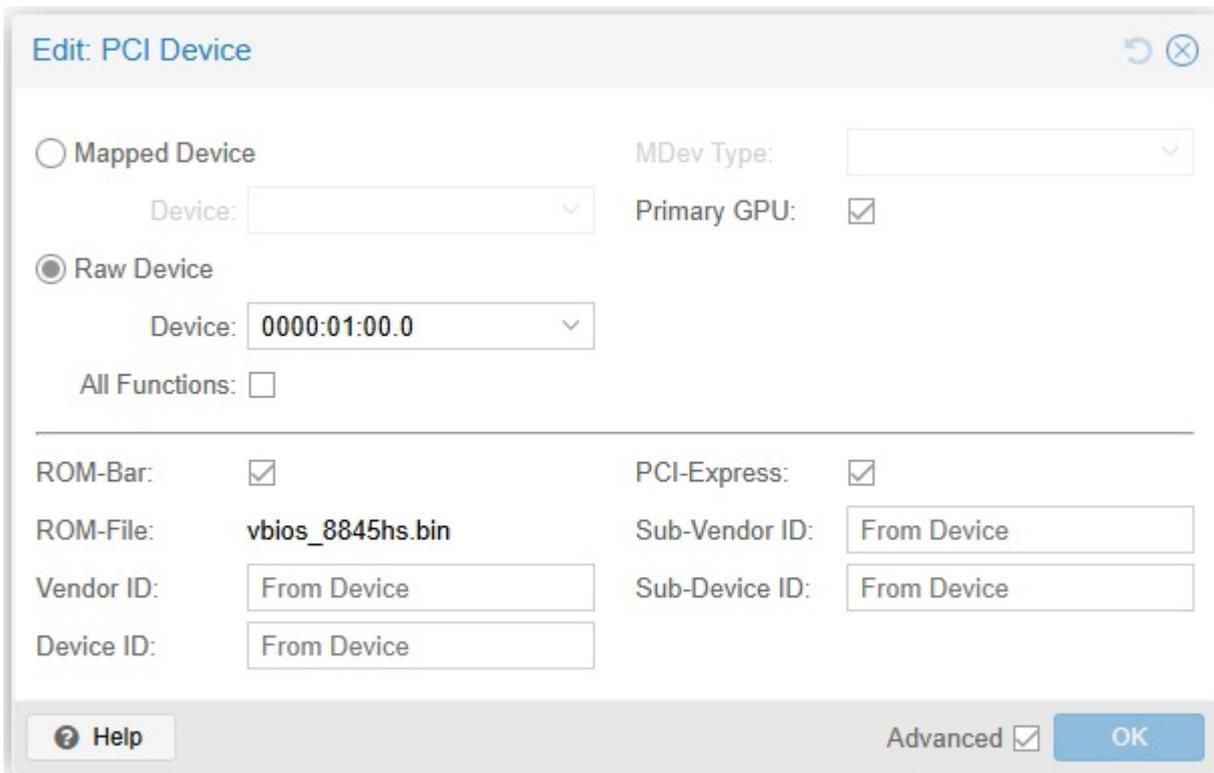
가 vBios

GPU (Cezanne, Vega 8 iGPU) vBios 가
 RDNA3 GPU(Phoenix, Radeon 780M RDNA3 iGPU) vBios 가
 Code43 가 .

vBios ROM

<https://github.com/isc30/ryzen-gpu-passthrough-proxmox>

가 PCI !



ROM File /etc/pve/qemu-server/<VMID>.conf

```

boot: order=scsi0;ide2;net0
cores: 4
cpu: host,hidden=1
hostpci0: 0000:01:00.0,pcie=1,x-vga=1,romfile=vbios_8845hs.bin
ide2: none,media=cdrom

```

```
machine: q35
memory: 8192
meta: creation-qemu=10.1.2,ctime=1772604340
name: plex.koov.net
net0: virtio=BC:24:11:D0:FD:94,bridge=vibr0,firewall=1
numa: 0
ostype: l26
scsi0: data-2T1:vm-106-disk-0,discard=on,iotread=1,size=100G
scsihw: virtio-scsi-single
smbios1: uuid=6fe8fb7b-1b4c-4d1f-be4d-ac8b83cb7438
sockets: 1
vga: std
vmgenid: 6ddb4c34-7aa8-44f4-b373-6fb1e4579b71
```

```
hostpci0: 0000:01:00.0,pcie=1,x-vga=1,romfile=vbios_8845hs.bin
          0000:01:00          가          .          VGA
          0000:01:00.0          .
```

Raw Device

Device: 0000:01:00.0

All Functions:

ID ↑	IOMM...	Vendor	Device	Medi...
0000:00:00.2	-	Advanced Micro ...	Phoenix IOMMU	No
0000:00:14.0	16	Advanced Micro ...	FCH SMBus Controller	No
0000:01:00.0	25	Advanced Micro ...	Phoenix3	No
0000:01:00.1	26	Advanced Micro ...	Radeon High Definition Audio Controller [Rembrandt/Strix]	No
0000:01:00.2	27	Advanced Micro ...	Phoenix CCP/PSP 3.0 Device	No
0000:01:00.3	28	Advanced Micro ...		No
0000:01:00.4	29	Advanced Micro ...		No
0000:01:00.5	30	Advanced Micro ...	Audio Coprocessor	No
0000:01:00.6	31	Advanced Micro ...	Family 17h/19h/1ah HD Audio Controller	No
0000:02:00.0	32	Advanced Micro ...	Phoenix Dummy Function	No
0000:02:00.1	33	Advanced Micro ...	AMD IPU Device	No

가

- <https://god-logger.tistory.com/188>
- <https://github.com/isc30/ryzen-gpu-passthrough-proxmox>

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