

VM - passthrough pci gpu

Préparation:

- activer IOMMU bios
- installer qemu/virt-manager/libvirt/ovmf
- paramètre kernel: intel_iommu=on OU amd_iommu=on

Configuration modules/vfio:

- script bash pour voir le groupe iommu de la carte:

```
#!/bin/bash
shopt -s nullglob
for d in /sys/kernel/iommu_groups/*/devices/*; do
n=${d##*/iommu_groups/*}; n=${n%%/*}
printf 'IOMMU Group %s ' "$n"
lspci -nns "${d##*/}"
done;
```

- Configuration vfio:

- **cat /etc/modprobe.d/vfio.conf**
options vfio-pci ids=10de:1c81,10de:0fb9 disable_vga=1
- Ou bien niveau noyau: vfio-pci.ids=1002:67e3,1002:aae0

- Chargement des module:

```
cat /etc/modules-load.d/modules.conf
# List of modules to load at boot
vfio-pci ids=1002:67e3,1002:67e3
vfio
```

vfio_iommu_type1

vfio_pci

vhost-net

Configuration kvm/virtmanger

- configurer bios uefi/q35
- ajouter périphérie pci (GPU/HDMI SOUND)
- Affichage VNC, (pas spice)
- Vidéo VGA (pas qxl)

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