

PVE ☐ ☐ ☐ ☐

--	--	--	--	--	--	--	--

```
qm unlock <VM ID>
```

```
qm stop <VM ID>
```

## backup()

```
vzdump 101 102 107 108 115 114 112 104 110 --compress lzo --mailnotification always --mode snapshot --quiet
1 --storage Backup --mailto mail@domain.com
```

## agent

```
apt install qemu-guest-agent
```

node 

--	--	--	--	--

```
service rrdcached stop
rm -rf /var/lib/rrdcached/*
service rrdcached start
```

--	--	--	--

```
service rrdcached status
```

TASK ERROR: cluster not ready - no quorum? ☐☐☐☐☐☐

```

pve[0] cluster[0] pve[1] 2 nodes[0]

```

11

```
pvecm status ---[ ]Quorum: 2 Activity blocked
```

```
pvecm expected 1 ---[ ]1[ ]/etc/pve
```

```
service pve-cluster restart ---[|||||]
```

```
[ ][ ][ ][ ][ ][ ]( [ ])node
```

EX: 

--	--	--	--	--	--	--

 node

```
pvecm delnode (node name)
```

## 2FA

```
/etc/pve/user.cfg
```

## raid1 or 5

```
sgdisk -R newdisk olddisk  
sgdisk -G newdisk  
dd if=/dev/olddisk1 of=/dev/newdisk1  
zpool replace rpool olddisk2 newdisk2 (f)
```

## pve CVE-2018-3646

```
echo off > /sys/devices/system/cpu/smt/control CPU
```

## pve

```
ls -l /dev/disk/by-id/  
vi /etc/pve/qemu-server/xxx(VMID).conf  
virtio0: /dev/disk/by-id/ata-ST2000DL003-9VT166_5YD1ZYK5,size=2000G
```

## #

## Pve virtio iso

```
https://fedorapeople.org/groups/virt/virtio-win/direct-downloads/archive-virtio/
```

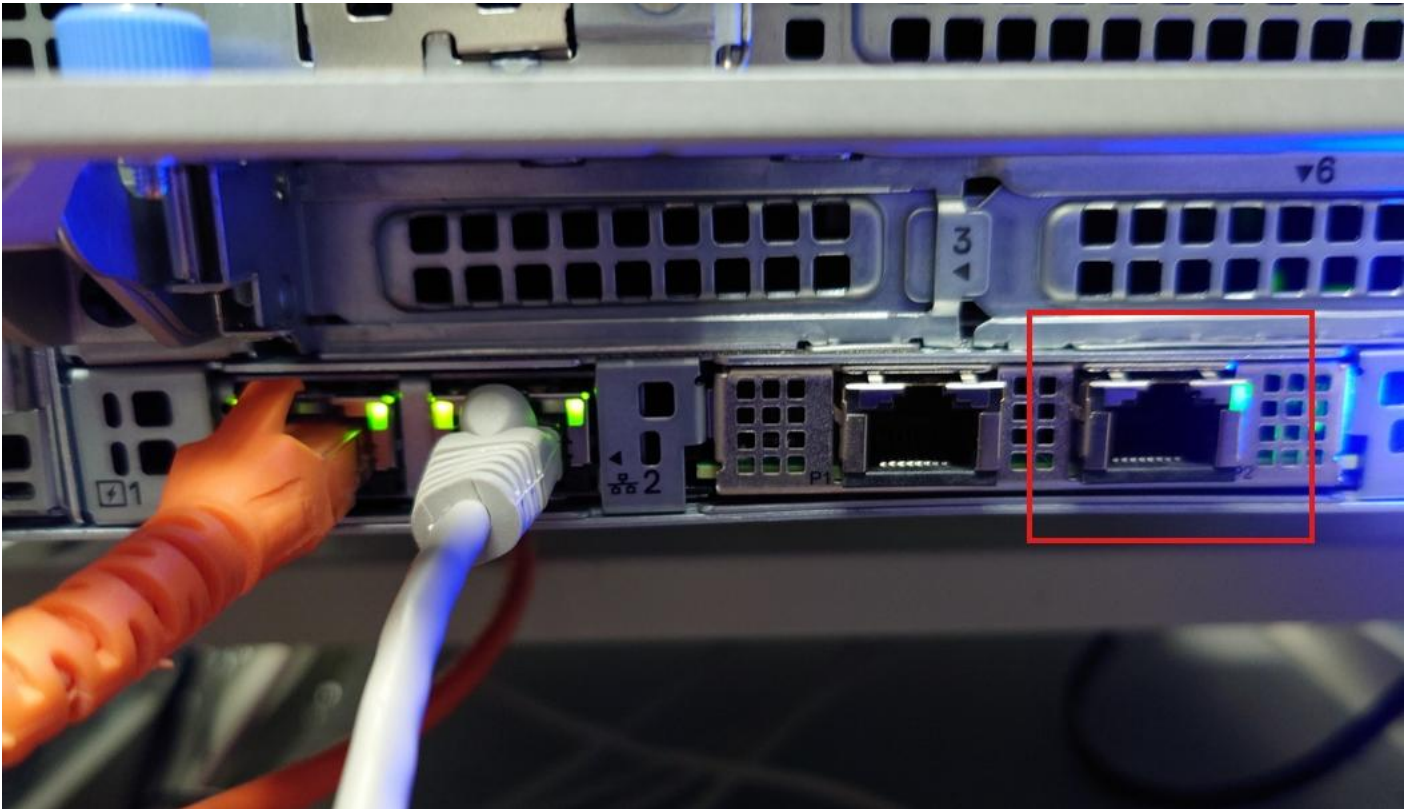
## 

## ethtool

```
apt install ethtool -y
```

## 

```
ethtool --identify
```



ip: 192.168.1.1

ip netns exec switch ip netns exec

ip netns exec & ip netns exec  
ip netns exec

```
lspci | grep -i 'eth'
```

ip netns exec ethtool ip netns exec

```
ethtool -i [interface] # ip netns exec  
ethtool [interface] # ip netns exec ethtool --identify [interface] ip netns exec
```

ip netns exec & ip netns exec

ip netns exec

BIOS ip netns exec VT-d & VMX  
ip netns exec Grub

```
nano /etc/default/grub
```

ip netns exec

```
GRUB_CMDLINE_LINUX_DEFAULT="quiet intel_iommu=on"
```

```
pci=
```

```
GRUB_CMDLINE_LINUX_DEFAULT="quiet intel_iommu=on pci_acs_override=downstream"
```

```
grub
```

```
update-grub
```

```
dd
```

```
img.iso PVE
```

```
nano /etc/pve/qemu-server/[ ].conf
```

```
pve
```

```
qm migrate <ID> <VMID> --online --migration_network x.x.x.0/xx
```

```
PCI
```

```
amd intel cpu grub
```

**Intel:**

```
GRUB_CMDLINE_LINUX_DEFAULT=""
```

```
intel_iommu=on
```

```
GRUB_DEFAULT=0
GRUB_TIMEOUT=5
GRUB_DISTRIBUTOR=`lsb_release -i -s 2> /dev/null || echo Debian`
GRUB_CMDLINE_LINUX_DEFAULT="quiet intel_iommu=on"
GRUB_CMDLINE_LINUX=""
```

**AMD:**

```
GRUB_CMDLINE_LINUX_DEFAULT=""
```

```
amd_iommu=on
```

update-grub

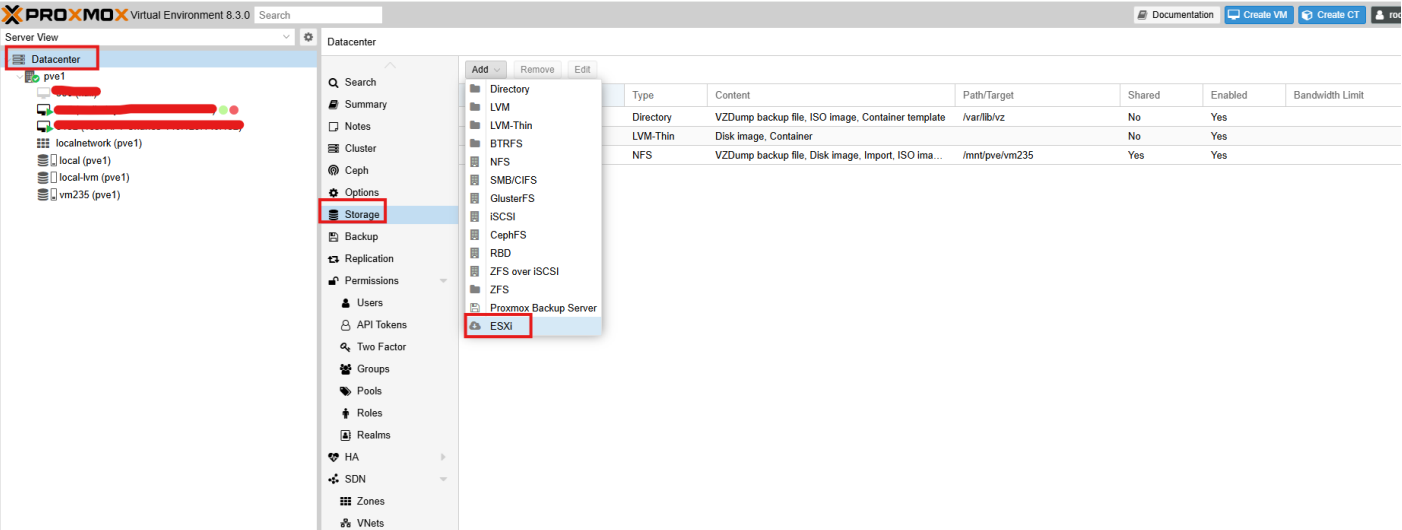
etc/modules

```
#vfio
#vfio_iommu_type1
#vfio_pci
#vfio_virgfd
```

VMWarePVE

1:

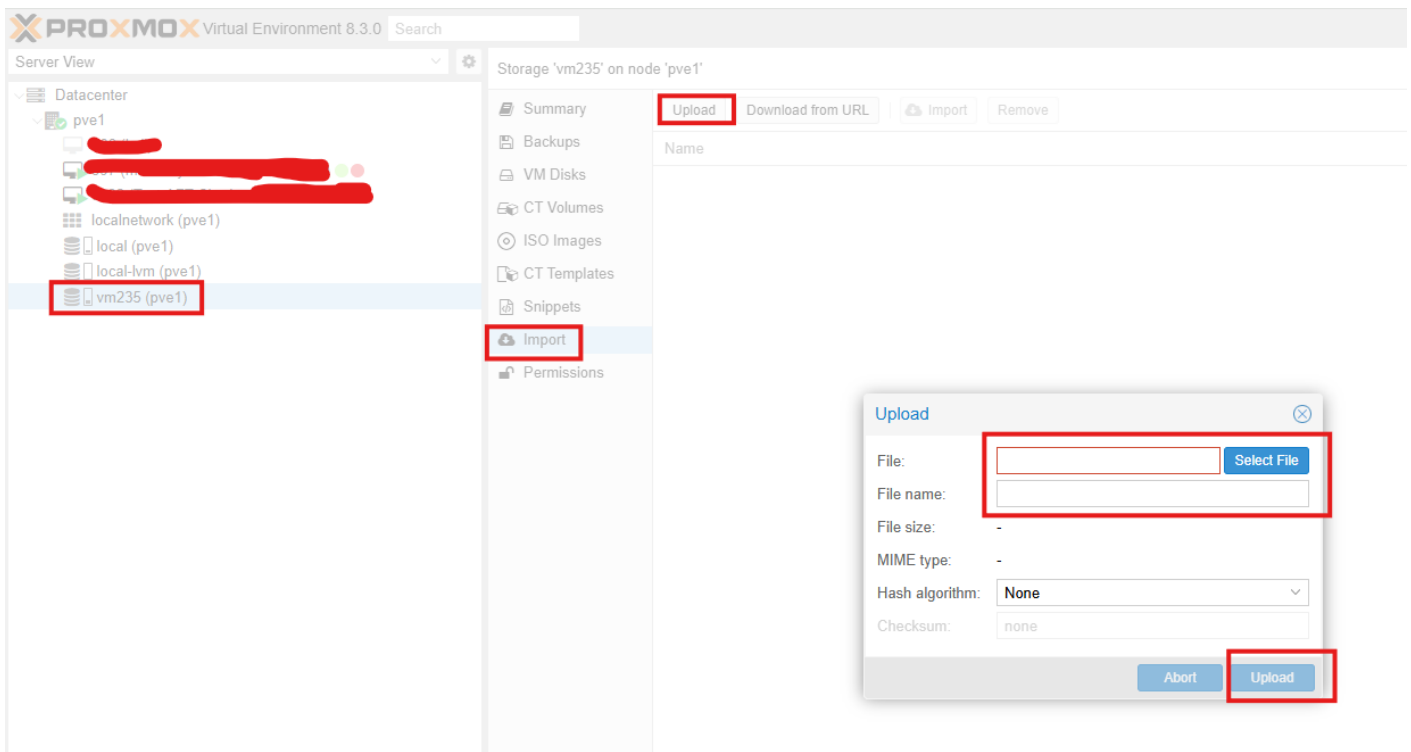
VMWare8.0PVEB.2GUI



VM

2:

GUIOVA PVE



Import PVE

VMWare OVA OVF OVA

```
tar -cvf VM.ova VM.ovf VM.vmdk VM.mf
```

VM

OVF (vmdk mf) PVE

1. scp PVE

```
scp <PVE> root@<IP>:PVE
```

2. qm importovf ovf

```
qm importovf {vmid} {VM name}.ovf {target storage}
```

```
qm --f raw, vmdk, qcow2 --cpu x86-64-v2-AES --scsihw virtio-scsi-
single????
?????GUI???????
```

3. Windows SATA IDE Unset SATA ide

3:

clonezilla qm disk import

```
qm disk import {target VMID} {vmdk file} {target storage}
```

root@qm:~# importovf /dev/sda1 cpu format /dev/sda1

root@qm:~# unset bios Windows /dev/sda1 ide

root@qm:~# qemu-img convert vhd -o qcow2

```
qemu-img convert -O qcow2 {source} {target}
```

root@qm:~#

```
qemu-img convert -f {source} -O {target} {source} {target}
```

## Local Lvm local

1. local-lvm /dev/sda1

2. cmd /dev/sda1

```
lvremove pve/data
```

```
lvextend -l +100%FREE -f pve/root
```

```
resize2fs /dev/mapper/pve-root
```

3. local /dev/sda1

4. local-lvm /dev/sda1

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