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□□□□□□□□□□□□□□□□□cluster□□□□□□□□□□□□pve□□□□□□□□□□2□nodes□□□□□□□□□□□□
□□

```
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/
```

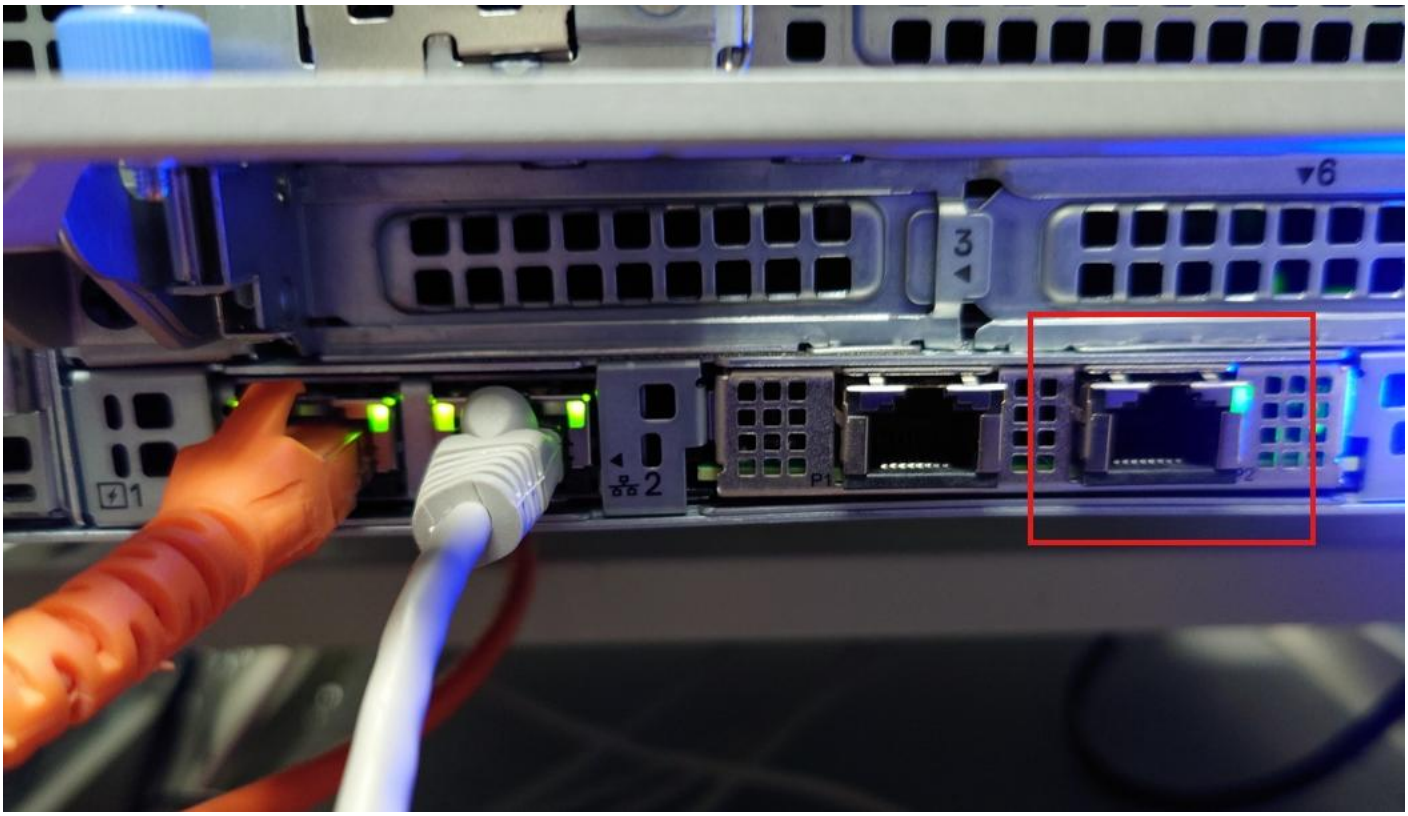
□□□□

□□ethtool

```
apt install ethtool -y
```

□□□□□□□□□□□□□

```
ethtool --identify (□□□□□□)
```



□□:□□□□□□□□□□□□

□□□□□□□□□switch□□□□□

□□□□□□□□ & □□□□
□□□□□□□□□□

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

□□ethtool□□□□□□□□□□□□□□□□□□

```
ethtool -i [□□□□]  #□□□□□□□□□□
ethtool [□□□□]  #□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ethtool --identify [□□□] □□□□□
```

□□□□□□ & □□□□

□□□□□□

BIOS□□□□□□□□□□□□□VT-d & VMX□
□□Grub

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

□□□□□□□□□□□□□□

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

□□□□pcie□□□

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

□□grub

```
update-grub
```

□□□□□□□
□□□img□□□□□□□iso□□□□□□PVE□□□□□
□□□□□□□□□□□

□□□□□□□□□

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

pve□□□□□□□□□□□□□

```

qm migrate <□□□ID> <□□□□> --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

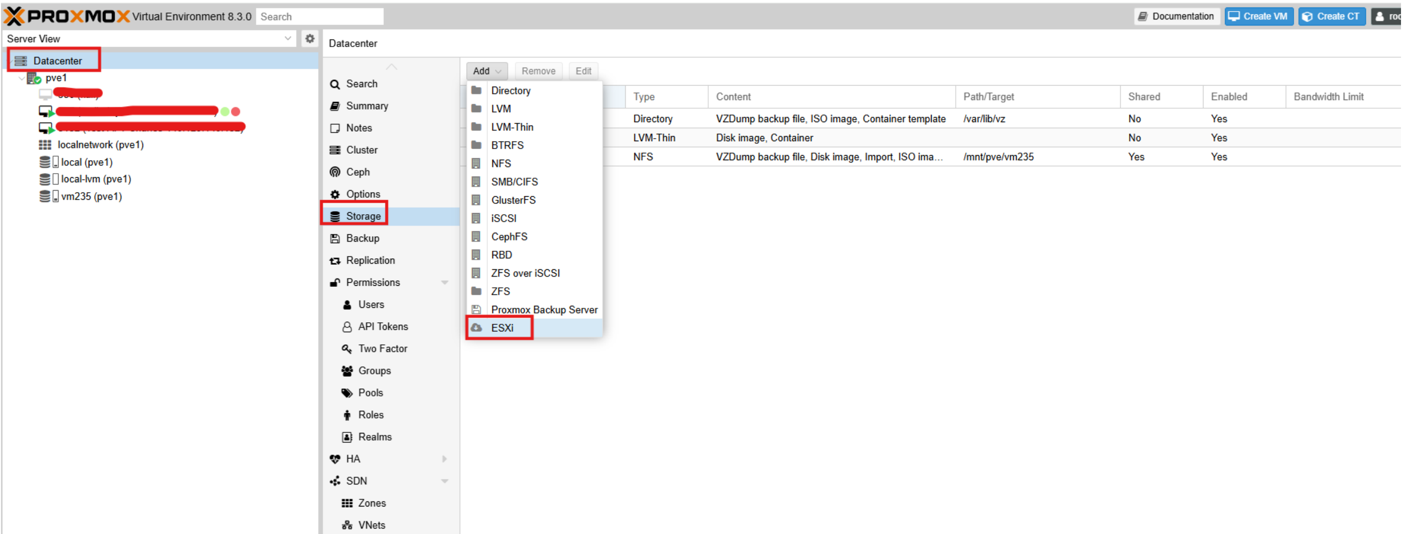
```
#vfio
#vfio_iommu_type1
#vfio_pci
#vfio_virgfd
```

□□□□

□□□□VMWare□□PVE

□□1:

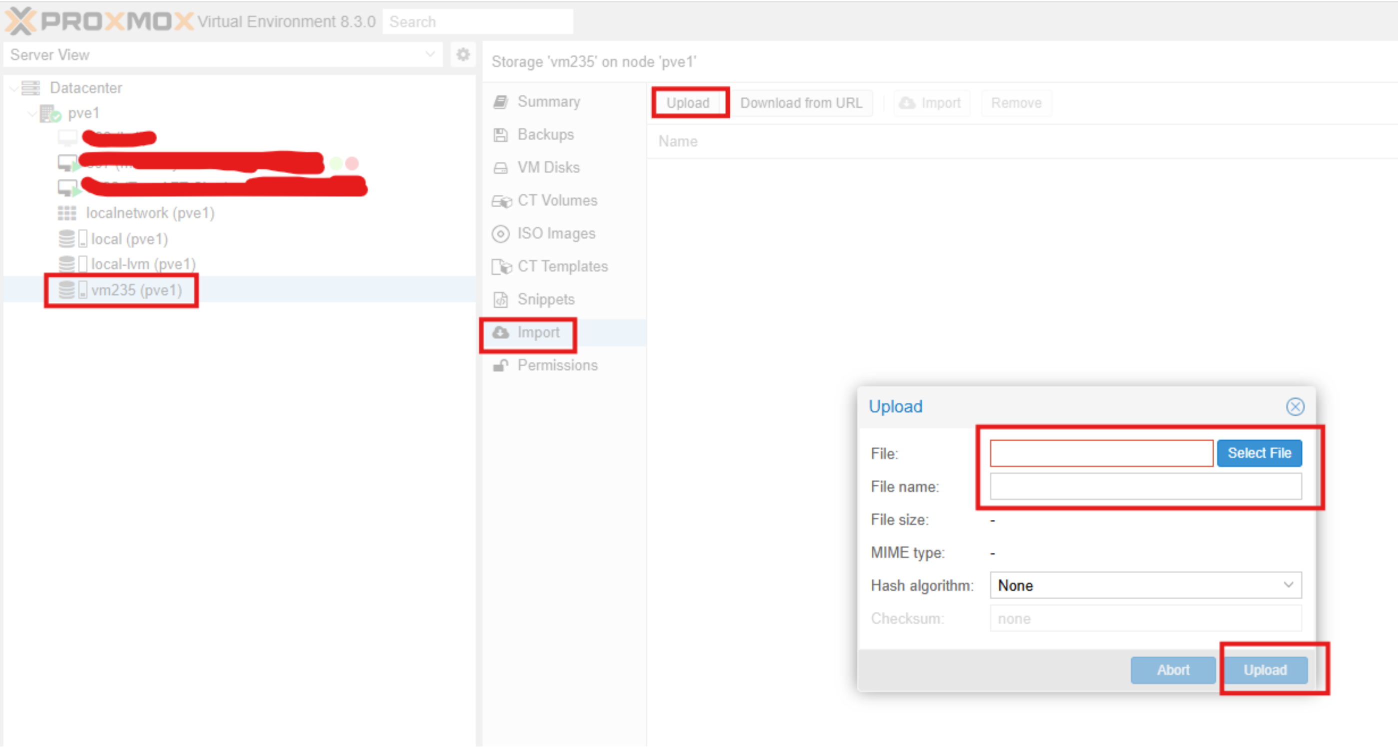
VMWare8.0□PVE8.2□□□□□□□□□GUI□□□□□□



□□□□VM□□

□□2:

□□GUI□□□□OVA□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 <□□□□> root@<IP>:□□□□
   ```

2. □□□□□qm importovf□□ovf□□□□

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

   □□:□□□--fo `raw`, `vmdk`, `qcow2?` `--cpu x86-64-v2-AES --scsihw virtio-scsi-single?????`
   `?????GUI???????`

3. Windows□□□□□SATA□ide□□□cache□□□□□□□□□□□□□Unset□□□□□□□□□□□□SATA□ide□□□□

□□3:

□□□□□□□□□□□□□□□□□clonezilla□□□qm disk import□□□□□

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

□□:□qm importovf□□□□□□□cpu format□□□□□□□□□

□□□□□□□□□□unset□□□□Windows□□□□□sata□ide□

□□qemu-img□vhdx□□qcow2

```
qemu-img convert -O qcow2 {□□□□} {□□□□}
```

□□□□□

```
qemu-img convert -f {□□□□} -O {□□□□} □□□□ □□□□
```

□Local-Lvm□□□local

1.□□local-lvm□□□□□□□□□□□□□□□□□□□□□□□□

2.□cmd□□□□□□□

```
lvremove pve/data

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

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

3.□□□local□□□□

4.local-lvm□□□□□□□□□

Revision #8
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