

Migrate from VirtualBox

Migrate Windows 7/10 Virtual Box

(Optional) Preparation

Cleanup disc space and remove all unnecessary drivers:

- uninstall Virtual Box Guest Additions
- Download and run registry file: [Mergeide.zip](#)
- Restart VM
- `sdelete -z c: d: e:`
- Enable `ClearPageFileAtShutdown.reg`
- Shutdown VM

Now two methods are possible:

Importing only disc

Fastest method: create Proxmox machine and import vbox hard disc to newly created Proxmox VM.

- Create new Proxmox machine with similar parameters to old one
 - [Windows 10 guest best practices](#)
 - Remove created Hard Disc (scsi0)
- Import disc images (repeat for all VDI discs)
 - As RAW images with all benefits (compression, thin provisioning, snapshots) or rbd or local-zfs storage:

```
qm importdisk 701 WIN7_C.vdi local-zfs
```

- 21743 MB VDI compacted file occupied 15,2G on ZFS with compression ratio 1.24x
- As QCOW2 files on every file storage:

```
qm importdisk 701 WIN7_C.vdi local -format qcow2
```

- Connect new discs into machine:
 - `qm set 701 --scsi<N> local-zfs:vm-701-disk-<N>,discard=on,size=64G`
 - NOTE: `discard=on` should be enabled for thin provisioned storage to reclaim unused space
- Change SCSI to IDE/SATA:
 - For i440FX machine: Switch SCSI to IDE:

```
sed -i 's/scsi/ide/g' /etc/pve/qemu-server/701.conf
```

- Manually correct numbering conflict with IDE CD-ROM drive *
- For Q35 machine: Switch SCSI to SATA:

```
sed -i 's/scsi/sata/g' /etc/pve/qemu-server/701.conf
```

- Setup correct boot order
- Add one dummy (small size) hard disc to SCSI controller
- Enable QEMU Guest Agent
- Boot Windows, go to Device Manager and install missing drivers:
 - PCI Simple Communication Controller PCI\VEN1AF4&DEV_1003 -> Virtio console
vioserial
 - Red Hat VirtIO SCSI pass-through controller vioscsi\w7\amd64
 - NetKVM\w7\amd64
 - (PCI\VEN_1AF4&DEV_1002) -> VirtIO Balloon Driver Balloon\w7\amd64
 - vm generation id (ACPI/QEMUUUID)
- Shutdown machine
- Switch disc controller from IDE to SCSI. Edit /etc/pve/qemu-server/701.conf
 - Setup correct boot order

Issues

Can't create IDE unit 1, bus supports only 1 units Q35 machine has only master IDEs. Use sata0, sata1 and so on.

NOT WORKING: Importing OVA file

- **Very slow method**, exporting OVA needs to copy all discs into exported and well compressed file.
- In VirtualBox choose **"File"** -> **"Export Appliance"**
 - select to export all network cards and MAC addresses
- Proxmox cannot import OVA files directly. Please unpack it with command

```
tar -xvf WIN7.ova
```

- After unpacking, manifest file .ovf will be available.
- `qm importovf 701 ./WIN7.ovf local-zfs --dryrun --format qcow2`
 - WARNING:

```
warning: unable to parse the VM name in this OVF manifest,  
generating a default value
```

- Create account/Login to VMWare page and download [ovftool](#)

T.B.C without success, more similar issues described here:

- [Export a VirtualBox Machine to VMware](#)
- [How to Convert Virtual Machines from VMware to VirtualBox and Vice Versa](#)

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