

Qubes OS Cheatsheet

VM Management

qvm-block - list/set VM PCI devices

usage:

- **qvm-block -l** [options]
- **qvm-block -a** [options] <device> <vm-name>
- **qvm-block -d** [options] <device>
- **qvm-block -d** [options] <vm-name>

qvm-block -A personal dom0:/home/user/extradisks/data.img - *attaches an additional storage for the personal-vm*

qvm-ls - list VMs and various information about their state

usage: **qvm-ls** [options] <vm-name>

qvm-ls - *lists all vms*

qvm-ls -n - *show network addresses assigned to VMs*

qvm-ls -d - *show VM disk utilization statistics*

qvm-prefs - list/set various per-VM properties

usage:

- **qvm-prefs -l** [options] <vm-name>
- **qvm-prefs -s** [options] <vm-name> <property> [...]

qvm-prefs win7-copy - *lists the preferences of the win7-copy*

qvm-prefs win7-copy -s mac 00:16:3E:5E:6C:05 - *sets a new mac for the network card*

qvm-prefs lab-win7 -s qrexec_installed true - *sets the qrexec to installed*

qvm-prefs lab-win7 -s qrexec_timeout 120 - *usefull for windows hvm based vms*

qvm-prefs lab-win7 -s default_user joanna - *sets the login user*

qvm-run - runs a specific command on a vm

usage: **qvm-run** [options] [<vm-name>] [<cmd>]

qvm-run personal xterm - *runs xterm on personal*

qvm-run personal xterm --pass-io - *runs xterm and passes all sdtin/stdout/stderr to the terminal*

qvm-run personal "sudo yum update" --pass-io --nogui - *pass a specific command directly to the VM*

qvm-start - starts a vm

usage: **qvm-start** [options] <vm-name>

qvm-start personal - *starts the personal-vm*

qvm-start ubuntu --cdrom personal:/home/user/Downloads/ubuntu-14.04.iso - *starts the ubuntu-vm*

qvm-sync-appmenus - *updates desktop file templates for given StandaloneVM or TemplateVM*

usage: qvm-sync-appmenus [options] <vm-name>

qvm-sync-appmenus archlinux-template - *useful for custom .desktop files or distributions not using yum*

Dom0

qubes-dom0-update - *updates software in dom0*

usage: qubes-dom0-update [--clean][--check-only][--gui] [<yum opts>][<pkg list>]

sudo qubes-dom0-update - *updates dom0*

sudo qubes-dom0-update qubes-windows-tools - *install the windows tools*

qubes-hcl-report - *updates software in dom0*

usage: qubes-dom0-update [--clean][--check-only][--gui] [<yum opts>][<pkg list>]

qubes-hcl-report - *prints the hardware information on the console (terminal)*

qubes-hcl-report personal - *sends the hardware information to the personal-vm under /home/user*

DomU

Copy from & to Dom0

Copy from: **Dom0 -> VM**

```
cat /path/to/file_in_dom0 |
qvm-run --pass-io <dst_domain>
'cat > /path/to/file_name_in_appvm'
```

Copy from: **VM -> Dom0**

```
qvm-run --pass-io <src_domain>
'cat /path/to/file_in_src_domain' >
/path/to/file_name_in_dom0
```

Copy text between VM A and B

On VM A (source):

1. CTRL+C
2. CTRL+SHIFT+C

On VM B (destination):

3. CTRL+SHIFT+V
4. CTRL+V

Grow disk

- In the VM: `sudo resize2fs /dev/xvdb`

VM -> VM Networking

Make sure:

- Both VMs are connected to the same firewall VM
- Qubes IP addresses are assigned to both VMs
- Both VMs are started

Firewall VM's terminal:

```
sudo iptables -I FORWARD 2 -s <IP address of A> -d <IP address of B> -j ACCEPT
```

Templates

Fedora Minimal - *Fedora minimal template*

`sudo qubes-dom0-update qubes-template-fedora-21-minimal` - *installs the fedora-21-minimal template*

Archlinux Minimal - *Archlinux minimal template*

1. In a VM:

```
wget http://olivier.medoc.free.fr/rpm/noarch/  
qubes-template-archlinux-minimal-3.0.3-201507281153.noarch.rpm
```

2. Copy RPM-Package to Dom0

3. In Dom0: `sudo rpm -i qubes-template-archlinux-minimal-3.0.3-201507281153.noarch.rpm`