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>`

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`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>`

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`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> [...]`

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`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>]`

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`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>`

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`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>`

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`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>]`

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`sudo qubes-dom0-update` - *updates dom0*

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

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`