

Qubes OS Cheatsheet

August 22, 2015

VM Management

qvm-start - *starts a vm*

Usage:

qvm-start [options] <vm-name>

e. g.:

qvm-start personal

*starts the **personal** vm*

qvm-start ubuntu ↵

--cdrom personal:/home/user/ ↵

Downloads/ubuntu-14.04.iso

*starts the **ubuntu** vm with cdrom*

qvm-run - *runs a specific command on a vm*

Usage:

qvm-run [options] [<vm-name>] [<cmd>]

e. g.:

qvm-run personal xterm

*runs xterm on **personal** vm*

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-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>

e. g.:

qvm-block -A personal dom0:/home/user/extradisks/data.img

*attaches an additional storage for the **personal** vm*

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

Usage:

`qvm-prefs -l [options] <vm-name>`

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

e. g.:

`qvm-prefs win7-copy`

*lists the preferences of the **win7-copy** vm*

`qvm-prefs win7-copy -s mac 00:16:3E:5E:6C:05`

set a new network cards mac

`qvm-prefs lab-win7 -s qrexec_installed true`

sets the qrexec installed preference

`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-ls` - *list VMs and various information about their state*

Usage:

`qvm-ls [options] <vm-name>`

e. g.:

`qvm-ls`

lists all vms

`qvm-sync-appmenus` - *updates desktop file templates for given Standalone VM or Template VM*

Usage:

`qvm-sync-appmenus [options] <vm-name>`

e. g.:

`qvm-sync-appmenus archlinux-template`

useful for custom .desktop files or distributions not using yum

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

Usage:

`qvm-ls [options] <vm-name>`

e. g.:

`qvm-ls -n`

Show network addresses assigned to VMs

`qvm-ls -d`

Show VM disk utilization statistics

Dom0

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

Usage:

`qubes-dom0-update [--clean] [--check-only] [--gui]`

[<yum opts>] [<pkg list>]

e. g.:

`sudo qubes-dom0-update`

updates dom0

`sudo qubes-dom0-update qubes-windows-tools`

install the windows tools

Copy from & to Dom0

Copy from Dom0 to VM:

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

Copy from VM to Dom0:

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

DomU

Shortcuts

Copy text between VM A and B.

On VM A (source):

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

On VM B (destination):

1. CTRL+SHIFT+V
2. CTRL+V

Grow disk

```
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

For the current session

In the firewall VM's terminal:

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