Qubes OS Cheatsheet

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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 termi-
nal

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 -1 [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
                                                        useful for custom .desktop files or distributions not using
Usage:
                                                        yum
qvm-prefs -l [options] <vm-name>
qvm-prefs -s [options] <vm-name>     
[\ldots]
                                                        qvm-ls - list VMs and various information about their state
e. g.:
                                                        Usage:
qvm-prefs win7-copy
                                                        qvm-ls [options] <vm-name>
lists the preferences of the win7-copy vm
                                                        e. g.:
qvm-prefs win7-copy -s mac 00:16:3E:5E:6C:05
                                                        qvm-ls -n
set a new network cards mac
                                                        Show network addresses assigned to VMs
qvm-prefs lab-win7 -s grexec_installed true
                                                        qvm-ls -d
sets the grexec installed preference
                                                        Show VM disk utilization statistics
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
                                                        Dom<sub>0</sub>
qvm-ls - list VMs and various information about their state
Usage:
qvm-ls [options] <vm-name>
                                                        qubes-dom0-update - updates software in dom0
e. g.:
                                                        qubes-dom0-update [--clean][--check-only][--gui]
qvm-ls
lists all vms
                                                         [<yum opts>][<pkg list>]
                                                        e. g.:
                                                        sudo qubes-dom0-update
qvm-sync-appmenus - updates desktop file templates for
                                                        updates \ dom 0
given StandaloneVM or TemplateVM
                                                        sudo qubes-dom0-update qubes-windows-tools
Usage:
                                                        install the windows tools
qvm-sync-appmenus [options] <vm-name>
```

qvm-sync-appmenus archlinux-template

e. g.:

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