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 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 StandaloneVM or TemplateVM*
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
```