Qubes OS Cheatsheet

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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 -1 [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
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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
Dom<sub>0</sub>
qubes-dom0-update - updates software in dom0
usage: qubes-dom0-update [--clean][--check-only][--gui] [<yum opts>][<pkg list>]
sudo qubes-dom0-update - updates\ dom 0
\verb|sudo| qubes-dom0-update| qubes-windows-tools-install| the| windows| tools|
qubes-hcl-report - generates a report about the hardware information
usage: qubes-hcl-report [<vm-name>]
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
xl - Xen management tool, based on LibXenlight
usage: xl subcommand [args]
xl dmesg - Dom0 dmesg output (first place to look for warning or error messages) xl top - Monitor host and domains in realtime
DomU
Copy files between two AppVM's
qvm-copy-to-vm - Copy file from one VM to another VM
usage: qvm-copy-to-vm <vm-name> <file> [<file+>] - file can be a single file or a folder
qvm-copy-to-vm work Documents - copy the Documents folder to the work VM qvm-copy-to-vm personal text.txt - copy the
text.txt file to the personal VM
Example
   • Open a terminal in AppVM A (e. g. your personal vm)
   • Let's assume we want to copy the Documents folder to AppVM B (e. g. your work VM)
   • The command would be: qvm-copy-to-vm work Documents
Copy from & to Dom0
Copy from: Dom0 \rightarrow VM
cat /path/to/file_in_dom0 |
 qvm-run --pass-io <dst_domain>
  'cat > /path/to/file_name_in_appvm'
Copy from: VM \rightarrow Dom0
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qvm-run --pass-io <src_domain>

/path/to/file_name_in_dom0

'cat /path/to/file in src domain' >

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

 $\verb|sudo| qubes-dom0-update| qubes-template-fedora-21-minimal| - installs| the fedora-21-minimal| template| - installs| - inst$

Archlinux Minimal - Archlinux minimal template

1. In a VM:

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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