

KVM Virsh cheat sheet – extended

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Domain Management (help keyword 'domain'):

attach-device	attach device from an XML file
attach-disk	attach disk device
attach-interface	attach network interface
autostart	Set or query a block device I/O tuning parameters.
blkdeviotune	Get or set blkio parameters
blkio tune	Start a block commit operation.
block-commit	Start a block copy operation.
block-copy	Manage active block operations
block-job	Populate a disk from its backing image.
block-pull	Resize block device of domain.
block-resize	Change media of CD or floppy drive
change-media	connect to the guest console
console	compute baseline CPU
cpu-baseline	compare host CPU with a CPU described by an XML file
cpu-compare	show domain cpu statistics
cpu-stats	create a domain from an XML file
create	define (but don't start) a domain from an XML file
define	show or set domain's description or title
desc	destroy (stop) a domain
destroy	detach device from an XML file
detach-device	detach disk device
detach-disk	detach network interface
detach-interface	domain display connection URI
domdisplay	Freeze domain's mounted filesystems.
domsfreeze	Thaw domain's mounted filesystems.
domsinfo	Get information of domain's mounted filesystems.
domslist	Invoke lstrim on domain's mounted filesystems.
domslistrim	print the domain's hostname
domhostname	convert a domain name or UUID to domain id
domid	set link state of a virtual interface
domif-setlink	get/set parameters of a virtual interface
domif-tune	abort active domain job
domjobabort	domain job information
domjobinfo	convert a domain id or UUID to domain name
domname	suspend a domain gracefully using power management functions
dompmnsuspend	wakeup a domain from pmsuspended state
dompmwakep	convert a domain name or id to domain UUID
domuuid	Convert native config to domain XML
domxml-from-native	Convert domain XML to native config
domxml-to-native	dump the core of a domain to a file for analysis
dump	domain information in XML
dumpxml	edit XML configuration for a domain
edit	Domain Events
event	Inject NMI to the guest
inject-nmi	view domain IOthreads
iothreadinfo	control domain IOThread affinity
iothreadpin	add an IOThread to the guest domain
iothreadadd	delete an IOThread from the guest domain
iothreaddel	Send keycodes to the guest
send-key	Send signals to processes
send-process-signal	LXC Guest Enter Namespace
lxc-enter-namespace	managed save of a domain state
managedsave	Remove managed save of a domain
managedsave-remove	Get or set memory parameters
memory	show or set domain's custom XML metadata
metadata	migrate domain to another host
migrate	set maximum tolerable downtime
migrate-setmaxdowntime	get/set compression cache size
migrate-compcache	Set the maximum migration bandwidth
migrate-setspeed	Get the maximum migration bandwidth
migrate-getspeed	Get or set numa parameters
numatune	QEMU Attach
qemu-attach	QEMU Monitor Command
qemu-monitor-command	QEMU Monitor Events
qemu-monitor-event	QEMU Guest Agent Command
qemu-agent-command	reboot a domain
reboot	restore a domain
reboot	restore a domain from a saved state in a file
reset	resume a domain
restore	save a domain state to a file
resume	redefine the XML for a domain's saved state file
save	saved state domain information in XML
save-image-define	edit XML for a domain's saved state file
save-image-dumpxml	show/set scheduler parameters
save-image-edit	take a screenshot of a current domain console and store it into a file
scheduleinfo	set the user password inside the domain
screenshot	change maximum memory limit
set-user-password	change memory allocation
setmaxmem	change number of virtual CPUs
setmem	gracefully shutdown a domain
setvcpus	start a (previously defined) inactive domain
shutdown	start a domain
start	suspend a domain
suspend	tty console
tyconsole	undefine a domain
undefine	update device from an XML file
update-device	domain vcpu counts
vcpucount	detailed domain vcpu information
vcpuinfo	control or query domain vcpu affinity
vcpupin	control or query domain emulator affinity
emulatorpin	vc display
vcdisplay	

Domain Monitoring (help keyword 'monitor'):

dombkerror	Show errors on block devices
dombkinfo	domain block device size information
dombklist	list all domain blocks
dombkstat	get device block stats for a domain
domcontrol	domain control interface state
domif-getlink	get link state of a virtual interface
domifaddr	Get network interfaces' addresses for a running domain
domiflist	list all domain virtual interfaces
domifstat	get network interface stats for a domain
dominfo	domain information
dommemstat	get memory statistics for a domain
domstate	domain state
domstats	get statistics about one or multiple domains
domtime	domain time
list	list domains

Host and Hypervisor (help keyword 'host'):

alloccpages	Manipulate pages pool size
capabilities	capabilities
cpu-models	CPU models
domcapabilities	domain capabilities
freecell	NUMA free memory
freepages	NUMA free pages
hostname	print the hypervisor hostname
maxvcpus	connection vcpu maximum
node-memory-tune	Get or set node memory parameters
nodecpumap	node cpu map
nodecpustats	Prints cpu stats of the node.
nodeinfo	node information
nodememstats	Prints memory stats of the node.
nodesuspend	suspend the host node for a given time duration
sysinfo	print the hypervisor sysinfo
uri	print the hypervisor canonical URI
version	show version

Interface (help keyword 'interface'):

iface-begin	create a snapshot of current interfaces settings, which can be later committed (iface-commit) or restored (iface-rollback)
iface-bridge	create a bridge device and attach an existing network device to it
iface-commit	commit changes made since iface-begin and free restore point
iface-define	define an inactive persistent physical host interface or modify an existing persistent one from an XML file
iface-destroy	destroy a physical host interface (disable it / "if-down")
iface-dumpxml	interface information in XML
iface-edit	edit XML configuration for a physical host interface
iface-list	list physical host interfaces
iface-mac	convert an interface name to interface MAC address
iface-name	convert an interface MAC address to interface name
iface-rollback	rollback to previous saved configuration created via iface-begin
iface-start	start a physical host interface (enable it / "if-up")
iface-unbridge	undefine a bridge device after detaching its slave device
iface-undefine	undefine a physical host interface (remove it from configuration)

Network Filter (help keyword 'filter'):

nwfilter-define	define or update a network filter from an XML file
nwfilter-dumpxml	network filter information in XML
nwfilter-edit	edit XML configuration for a network filter
nwfilter-list	list network filters
nwfilter-undefine	undefine a network filter

Node Device (help keyword 'node-dev'):

node-dev-create	create a device defined by an XML file on the node
node-dev-destroy	destroy (stop) a device on the node
node-dev-detach	detach node device from its device driver
node-dev-dumpxml	node device details in XML
node-dev-list	enumerate devices on this host
node-dev-reattach	reattach node device to its device driver
node-dev-reset	reset node device

Secret (help keyword 'secret'):

secret-define	define or modify a secret from an XML file
secret-dumpxml	secret attributes in XML
secret-get-value	Output a secret value
secret-list	list secrets
secret-set-value	set a secret value
secret-undefine	undefine a secret

Virsh itself (help keyword 'virsh'):

cd	change the current directory
connect	(re)connect to hypervisor
echo	echo arguments
exit	quit this interactive terminal
help	print help
pwd	print the current directory
quit	quit this interactive terminal

Networking (help keyword 'network'):

net-autostart	autostart a network
net-create	create a network from an XML file
net-define	define an inactive persistent virtual network or modify an existing persistent one from an XML file
net-destroy	destroy (stop) a network
net-dhcp-leases	print lease info for a given network
net-dumpxml	network information in XML
net-edit	edit XML configuration for a network
net-event	Network Events
net-info	network information
net-list	list networks
net-name	convert a network UUID to network name
net-start	start a (previously defined) inactive network
net-undefine	undefine a persistent network
net-update	update parts of an existing network's configuration
net-uuid	convert a network name to network UUID

Storage Volume (help keyword 'volume'):

vol-clone	clone a volume.
vol-create-as	create a volume from a set of args
vol-create	create a vol from an XML file
vol-create-from	create a vol, using another volume as input
vol-delete	delete a vol
vol-download	download volume contents to a file
vol-dumpxml	vol information in XML
vol-info	storage vol information
vol-key	returns the volume key for a given volume name or path
vol-list	list vols
vol-name	returns the volume name for a given volume key or path
vol-path	returns the volume path for a given volume name or key
vol-pool	returns the storage pool for a given volume key or path
vol-resize	resize a vol
vol-upload	upload file contents to a volume
vol-wipe	wipe a vol

Snapshot (help keyword 'snapshot'):

snapshot-create	Create a snapshot from XML
snapshot-create-as	Create a snapshot from a set of args
snapshot-current	Get or set the current snapshot
snapshot-delete	Delete a domain snapshot
snapshot-dumpxml	Dump XML for a domain snapshot
snapshot-edit	edit XML for a snapshot
snapshot-info	snapshot information
snapshot-list	List snapshots for a domain
snapshot-parent	Get the name of the parent of a snapshot
snapshot-revert	Revert a domain to a snapshot

Storage Pool (help keyword 'pool'):

find-storage-pool-sources-a	find potential storage pool sources
find-storage-pool-sources	discover potential storage pool sources
pool-autostart	autostart a pool
pool-build	build a pool
pool-create-as	create a pool from a set of args
pool-create	create a pool from an XML file
pool-define-as	define a pool from a set of args
pool-define	define an inactive persistent storage pool or modify an existing persistent one from an XML file
pool-delete	delete a pool
pool-destroy	destroy (stop) a pool
pool-dumpxml	pool information in XML
pool-edit	edit XML configuration for a storage pool
pool-info	storage pool information
pool-list	list pools
pool-name	convert a pool UUID to pool name
pool-refresh	refresh a pool
pool-start	start a (previously defined) inactive pool
pool-undefine	undefine an inactive pool
pool-uuid	convert a pool name to pool UUID

