

Sr. No.	Command Name	Description (brief)	Output on terminal	Status (working or not)
01	autostart	Enable and disable the automatic starting of a guest domain when the libvirt daemon starts.	<ul style="list-style-type: none"> • virsh --connect lxc:/// define /http1.xml • virsh --connect lxc:/// autostart http1 	o
02	Console	connect to the virtual serial console for the guest.	<ul style="list-style-type: none"> • virsh --connect lxc:/// define /http1.xml • virsh --connect lxc:/// start http1 • virsh --connect lxc:/// console http1 	o
03	create	creates a guest domain from an xml file # does not work. gives error.	<ul style="list-style-type: none"> • virsh create /http1.xml • #error: Failed to create domain from /http1.xml • #error: internal error unexpected domain type lxc, expecting one of these: qemu, kqemu, kvm, xen 	-
04	Define	defines but doesnt start a guest domain from an xml file	<ul style="list-style-type: none"> • virsh --connect lxc:/// define /http1.xml 	o
05	destroy	immediately terminates a running guest domain and releases any resources in use by it. Not to be used lightly	<ul style="list-style-type: none"> • first get a domain running : • virsh --connect lxc:/// define /http1.xml • virsh --connect lxc:/// start http1 • then run a destroy. observe in a separate terminal the result of a before and after virt-top • virsh --connect lxc:/// destroy http1 • #Domain http1 destroyed 	o
06	attach-disk / detach-disk	attach or detach a disk device Note : Doesn't work. maybe i am doing something wrong.	-	-
07	domjobinfo	info about running guest domain jobs	<ul style="list-style-type: none"> • virsh --connect lxc:/// domjobinfo http1 • error: this function is not supported by the connection driver: virDomainGetJobInfo 	-
08	domjobabort	aborts current running guest domain job	<ul style="list-style-type: none"> • root@localhost ~]# virsh --connect lxc:/// domjobabort http1 • error: this function is not supported by the connection driver: virDomainAbortJob 	-
09	Dump	Core dump a guest domain	<ul style="list-style-type: none"> • virsh --connect lxc:/// dump http1 abc.delete • error: Failed to core dump domain http1 to abc.delete • error: this function is not supported by the connection driver: virDomainCoreDump 	-

10	managedsave / managedsave-remove	Save and destroy a running guest domain, so it can be restarted from the same state at a later time. When the virsh start command is next run for the guest domain, it will automatically be started from this saved state	<ul style="list-style-type: none"> • virsh --connect lxc:/// managedsave http1 • error: Failed to save domain http1 state • error: this function is not supported by the connection driver: virDomainManagedSave 	-
11	Migrate **	migrates a guest domain to another host	<ul style="list-style-type: none"> • virsh --connect lxc:/// migrate http2 http1 () • error: no connection driver available for No connection for URI http1 • error: Reconnected to the hypervisor 	
12	Reboot	Runs a reboot in the guest domain	<ul style="list-style-type: none"> • [root@localhost ~]# virsh --connect lxc:/// reboot http1 • error: Failed to reboot domain http1 • error: this function is not supported by the connection driver: virDomainReboot 	-
13	Restore	restores a guest domain	<ul style="list-style-type: none"> • [root@localhost ~]# virsh --connect lxc:/// restore http1 • error: Failed to restore domain from http1 • error: this function is not supported by the connection driver: virDomainRestore 	-
14	Resume	resumes a guest domain	<ul style="list-style-type: none"> • [root@localhost ~]# virsh --connect lxc:/// resume http1 • Domain http1 resumed 	○
15	Save	saves the running state of a guest domain to a file.	<ul style="list-style-type: none"> • virsh # save http1 http1.save • error: Failed to save domain http1 to http1.save • error: this function is not supported by the connection driver: virDomainSave 	-
16	shutdown	runs shutdown in a guest domain	<ul style="list-style-type: none"> • virsh # shutdown http1 • error: Failed to shutdown domain http1 • error: this function is not supported by the connection driver: virDomainShutdown 	-
17	Start	starts a guest domain either form a last managedsave or via a fresh boot if no managed save is present	<ul style="list-style-type: none"> • virsh # start http1 • Domain http1 started 	○
18	Update-device	update device from an XML file	<ul style="list-style-type: none"> • virsh # update-device http1 /http2.xml • error: Failed to update device from /http2.xml • error: this function is not supported by the connection driver: 	-

			virDomainUpdateDeviceFlags	
19	virt-viewer	display a vnc type interface to running domain	<ul style="list-style-type: none"> • virt-viewer --connect lxc:/// http1 • error message pops up in window: • Cannot determine the graphic type for the guest http1 	○
20	maxvcpus	show maximum number of virtual CPUs for guest domains on this connection	<ul style="list-style-type: none"> • virsh # maxvcpus http1 • error: this function is not supported by the connection driver: virConnectGetMaxVcpus 	-
21	memtune	gets or sets the current memory parameters for a guest domain	<ul style="list-style-type: none"> • virsh # memtune • error: command 'memtune' requires <domain> option • virsh # memtune http1 • hard_limit : 102400 • soft_limit : unlimited • swap_hard_limit: unlimited 	○
22	schedinfo	show or set scheduler parameters	<ul style="list-style-type: none"> • virsh # schedinfo • error: command 'schedinfo' requires <domain> option • virsh # schedinfo http1 • Scheduler : Unknown • error: Requested operation is not valid: cgroup CPU controller is not mounted 	○
23	setmaxmem	change the maximum memory allocation limit in the guest domain	<ul style="list-style-type: none"> • virsh --connect lxc:/// setmaxmem http1 --size 1024M • Note: If you allocate memory less than the current memory, error message will be displayed: • [root@localhost ~]# virsh --connect lxc:/// setmaxmem http1 --size 1024 • error: Unable to change MaxMemorySize • error: invalid argument: Cannot set max memory lower than current memory 	○
24	setmem	change the current memory allocation in the guest domain	<ul style="list-style-type: none"> • virsh --connect lxc:/// setmem http1 --size 64M • Note: if we allocate memory that is invalid, we will get error. by invalid it is understood that the memory range is either insufficient or out of bounds • [root@localhost ~]# virsh --connect lxc:/// setmem http1 --size 64 • error: operation failed: Failed to set memory for domain • [root@localhost ~]# virsh --connect lxc:/// setmem http1 --size 6400M 	○

			<ul style="list-style-type: none"> • error: invalid argument: Cannot set memory higher than max memory 	
25	setvcpus	change the number of virtual cpus in the guest domain	<ul style="list-style-type: none"> • [root@localhost ~]# virsh --connect lxc:/// setvcpus http1 --count 1 • error: this function is not supported by the connection driver: virDomainSetVcpus 	-
26	vcpuinfo	returns basic info about the guest domains virtual CPU's	<ul style="list-style-type: none"> • [root@localhost ~]# virsh --connect lxc:/// vcpuinfo http1 • error: this function is not supported by the connection driver: virDomainGetVcpus 	-
27	dominfo	displays some basic information about the domain specified	<pre>[root@localhost ~]# virsh --connect lxc:/// dominfo http1 Id: 3358 Name: http1 UUID: 5ad4fdf0-f098-02ad-4419-ce9d0bdc3e21 OS Type: exe State: running CPU(s): 1 CPU time: 0.0s Max memory: 102400 kB Used memory: 728 kB Persistent: yes Autostart: disable Managed save: unknown Security model: selinux Security DOI: 0 Security label: System_u:system_r:virtd_t:s0-s0:c0.c1023 (enforcing)</pre>	○
28	dommemstat	displays info about the memory statistics of the domain	<ul style="list-style-type: none"> • [root@localhost ~]# virsh --connect lxc:/// dommemstat http1 • error: Failed to get memory statistics for domain http1 • error: this function is not supported by the connection driver: virDomainMemoryStats 	-
29	domblkinfo	gets the block device size or a guest domain	<ul style="list-style-type: none"> • 	○
30	domblkstat	gets device block stats for a running guest domain	<ul style="list-style-type: none"> • 	○
31	domifstat	gets network interface stat for a running guest domain	<ul style="list-style-type: none"> • 	○
32	dominfo	gets basic information about a guest domain	<ul style="list-style-type: none"> • 	○

33	dommemstat	gets memory statistics for a running guest domain	•	○
34	domstate	returns the state of a guest domain i.e. whether running etc	•	○
35	list	returns a list of guest domains	•	○
36	Capabilities	returns the capabilities of the host and guest in xml format	<pre> virsh # capabilities <capabilities> <host> <uuid>4106df86-4245-4f3b-bc63-7efc858e1ddf</uuid> <cpu> <arch>x86_64</arch> </cpu> <power_management> <suspend_disk/> </power_management> <topology> <cells num='1'> <cell id='0'> <cpus num='2'> <cpu id='0' /> <cpu id='1' /> </cpus> </cell> </cells> </topology> <secmodel> <model>selinux</model> <doi>0</doi> </secmodel> </host> <guest> <os_type>exe</os_type> <arch name='x86_64'> <wordsize>64</wordsize> <emulator>/usr/libexec/libvirt_lxc</emulator> <domain type='lxc'> </domain> </arch> </guest> <guest> <os_type>exe</os_type></pre>	○

			<arch name='i686'> <wordsize>32</wordsize> <emulator>/usr/libexec/libvirt_lxc</emulator> <domain type='lxc'> </domain> </arch> </guest> </capabilities>	
37	freecell	Display available free memory for a NUMA cell	<ul style="list-style-type: none"> • virsh # freecell • Total: 276180 kB 	○
38	hostname	Display the name of the hypervisor host	<ul style="list-style-type: none"> • [root@localhost ~]# hostname • localhost.localdomain 	○
39	nodeinfo	Returns basic information about the node	virsh # nodeinfo CPU model: x86_64 CPU(s): 2 CPU frequency: 3260 MHz CPU socket(s): 1 Core(s) per socket: 2 Thread(s) per core: 1 NUMA cell(s): 1 Memory size: 1020536 kB	○
40	iface-define	<p>define a physical host network interface.</p> <p>The file expected is of the type xml.</p> <p>We have an example of how it is executed.</p>	<ul style="list-style-type: none"> • Steps to Reproduce: • 1. Create the file bridgeInterfaceConfig.xml (change interface, ip and mac to correspond to your configuration : <pre><interface type='bridge' name='br1'> <start mode="onboot"/> <protocol family='ipv4'> <ip address='192.168.1.15' prefix='24'> </ip> </protocol> <bridge> <interface type='ethernet' name='eth2'> <mac address='00:1b:21:43:36:b0'> </mac> </interface> </bridge> </interface></pre> • 2. run "virsh iface-define bridgeInterfaceConfig.xml" • 3. run "iface-start br1". 	○
41	iface-destroy	shutdown and siables a physical host network device	<ul style="list-style-type: none"> • virsh # iface-destroy br1 • error: Failed to destroy interface br1 • error: internal error failed to destroy (stop) interface br1: failed to execute external program - Running 'ifdown eth0' failed with 	○

			exit code 6: Error: Device 'eth0' (/org/freedesktop/NetworkManager/Devices/0) disconnecting failed: This device is not active	
42	iface-dumpxml	Output information for a physical host network interface, as an XML dump to stdout	<pre>virsh # iface-dumpxml br1 <interface type='bridge' name='br1'> <bridge> <interface type='ethernet' name='eth0'> <mac address='08:00:27:97:13:e1' /> </interface> </bridge> </interface></pre>	<input type="radio"/>
43	iface-list	Returns a list of physical host network interfaces	<ul style="list-style-type: none"> • virsh # iface-list • Name State MAC Address • ----- • lo active 00:00:00:00:00:00 	<input type="radio"/>
44	iface-start	Enables and starts a physical host network interface	<ul style="list-style-type: none"> • virsh # iface-start br1 • Interface br1 started 	<input type="radio"/>
45	iface-undefine	Removes the configuration information for a physical host network interface	<ul style="list-style-type: none"> • virsh # iface-undefine br1 • Interface br1 undefined 	<input type="radio"/>
46	net-autostart	Enable or disable the automatic starting of a virtual network, when the libvirt daemon starts	<ul style="list-style-type: none"> • virsh # net-autostart default • Network default marked as autostarted 	<input type="radio"/>
47	net-define	Adds a new permanent virtual network from an XML file, without starting it	<p>Steps to reproduce :</p> <ol style="list-style-type: none"> 1. generate a network XML configuration file using the format as specified in this url (http://libvirt.org/formatnetwork.html). <p>In the below example i have defined a basic bare network.</p> <pre><network> <name>examplenetwork</name> <bridge name="virbr0" /> <forward mode="route" /> <ip address="172.26.126.1" netmask="255.255.255.0" /> </network></pre> <ol style="list-style-type: none"> 2. Define the network using the command net-define as below: <pre>virsh # net-define /examplenetwork.xml</pre> <p>Network examplenetwork defined from /examplenetwork.xml</p>	<input type="radio"/>

			<p>3. Check if entry has been made. Also check that it should not be running as soon as it is created.</p> <p>Newly defined virtual networks aren't set to automatically be started, as can be seen here:</p> <pre>virsh # net-list --all Name State Autostart ----- default active yes examplenetwork inactive no</pre> <p>4. Autostart configure, we will now set it to autostart with the command:</p> <pre>virsh # net-autostart examplenetwork Network examplenetwork marked as autostarted</pre> <p>5. Check whether it has autostarted or not</p> <pre>virsh # net-list --all Name State Autostart ----- default active yes examplenetwork inactive yes</pre> <p>6. To disable autostart, we can run a net-autostart --disable to disable any network.</p> <pre># net-autostart --disable examplenetwork Network examplenetwork unmarked as autostarted</pre>	
48	net-dumpxml	Displays the XML configuration for a virtual network (to stdout)	<pre>virsh # net-dumpxml default <network> <name>default</name> <uuid>cade1299-29aa-4db0-a04b-f26281a8b30a</uuid> <forward mode='nat' /> <bridge name='virbr0' stp='on' delay='0' /> <mac address='52:54:00:9B:B4:F7' /> <ip address='192.168.122.1' netmask='255.255.255.0' /> <dhcp> <range start='192.168.122.2' end='192.168.122.254' /> </dhcp> </ip> </network></pre>	○
49	net-edit	opens the network config xml for editing by user.	<ul style="list-style-type: none"> • virsh # net-edit default • Network default XML configuration not changed. 	○
50	net-info	displays basic information	virsh # net-info default	○

		about a network	Name default UUID cade1299-29aa-4db0-a04bf26281a8b30a Active: yes Persistent: yes Autostart: yes Bridge: virbr0	
51	net-start	starts a network	<ul style="list-style-type: none"> • virsh # net-start default 	<input type="radio"/>
52	net-undefine	undefines a network from the configuration file.	<ul style="list-style-type: none"> • virsh # net-destroy default • Network default destroyed • virsh # net-undefine default • Network default has been undefined 	<input type="radio"/>
53	Domain snapshot commands (multiple)	Does not work with LXC.	<ul style="list-style-type: none"> • virsh # snapshot-dumpxml http1 abs • error: this function is not supported by the connection driver: virDomainSnapshotLookupByName 	<input type="radio"/>