How to work with virt-install and virsh

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Most common used commands

Start VM

sudo virsh start server01

Reboot VM

sudo virsh reboot server01

Shutdown VM

sudo virsh shutdown server01

List all VM’s

virsh list –all

List VM information

virsh dominfo DOCKER-01

List all OS

osinfo-query os

List networks interfaces?

virsh net-list –all

Create new VM

sudo virt-install -n DOCKER-01

--description "Test VM for docker" \

--os-type=Linux \

--os-variant=debian10 \

--ram=2048 \

--vcpus=2 \

--disk path=/mnt/6ccc7df8-33f3-4bd4-b233-56ecfb26bde1/Virtual\ machines/images/DOCKER-01.img,bus=virtio,size=20 \

--graphics vnc \

--cdrom=/home/mechkarov/Downloads/debian-10.9.0-amd64-netinst.iso

Create disk .qcow2

Implementation

qemu-img create -f qcow2 /var/lib/libvirt/images/sample1.qcow2 5G

For Cluster size image of 2M

qemu-img create -f qcow2 -o cluster_size=2M /var/lib/libvirt/images/sample1.qcow2 5G

For Preallocated size

qemu-img create -f qcow2 -o preallocation=full /var/lib/libvirt/images/sample1.qcow2 5G

Lastly, to verify

qemu-img info /var/lib/libvirt/images/sample1.qcow2

Create disk .iso

Implementation

qemu-img create -f raw /var/lib/libvirt/images/sample1.img 5G

For Preallocating size

qemu-img create -f raw -o preallocation=full /var/lib/libvirt/images/sample1.img 5G

Lastly, to verify

qemu-img info /var/lib/libvirt/images/sample1.img

Edit configuration file

- **List all configuration files (default location)**

ls -l /etc/libvirt/qemu/

- **Edit the file with virsh**

virsh edit configurationfile.xml

Display VM CPU and Memory Usage

virt-top