1) запустить контейнер с ubuntu, используя механизм LXC

sudo apt-get install lxc

```
max_ub_gb@VirtualBox:/sys/fs/cgroup$ sudo apt install lxc
[sudo] password for max_ub_gb:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
 The following additional packages will be installed:
bridge-utils libfuse2 liblxc-common liblxc1 libpam-cgfs lxc-utils lxc
sudo apt install lxc-templates
 max_ub_gb@VirtualBox:/sys/fs/cgroup$ sudo apt install lxc-templates
 Reading package lists... Done
 Building dependency tree... Done
 Reading state information... Done
 The following additional packages will be installed:
   arch-test cloud-image-utils debootstrap fakechroot fakeroot ibverbs-pro
   libdistro-info-perl libdpkg-perl libfakechroot libfakeroot libfile-fcnt
sudo lxc-create -n test1 -t ubuntu
max_ub_gb@VirtualBox:/$ sudo lxc-create -n test1 -t ubuntu
[sudo] password for max_ub_gb:
Checking cache download in /var/cache/lxc/jammy/rootfs-amd64 ...
Installing packages in template: apt-transport-https,ssh,vim,language-pack-en Downloading ubuntu jammy minimal ...
Current default time zone: 'Etc/UTC'
Local time is now: Sun Apr 2 09:34:51 UTC 2023.
Universal Time is now: Sun Apr
                                      2 09:34:51 UTC 2023.
# The default user is 'ubuntu' with password 'ubuntu'!
# Use the 'sudo' command to run tasks as root in the container.
##
max_ub_gb@VirtualBox:/$ sudo lxc-ls -f
sudo lxc-start test1
sudo lxc-ls -f
imax_ub_gb@VirtualBox:/$ sudo lxc-start test1
 max_ub_gb@VirtualBox:/$ sudo lxc-ls -f
                  AUTOSTART GROUPS IPV4
 NAME STATE
                                                   IPV6 UNPRIVILEGED
 test1 RUNNING 0
                                      10.0.3.245 -
                                                         false
max ub qb@VirtualBox:/S
sudo lxc-attach test1
   test1 RUNNING 0
                                       10.0.3.245 -
   max_ub_gb@VirtualBox:/$ sudo lxc-attach test1
   root@test1:/#
   root@test1:/#
   root@test1:/#
```

2) ограничить контейнер 256 Мб ОЗУ и проверить, что ограничение работает

Было памяти

free -m

root@test1:/# free -m						
	total	used	free	shared	buff/cache	available
Mem:	5181	26	5149	0	4	5154
Swap:	0	0	0			

Запишем в файл Іхс-конфиг (пишем снаружи)

Ограничим память

echo lxc.cgroup2.memory.max = 256M >> /var/lib/lxc/test123/config

Автозапуск

echo lxc.start.auto = 1 >> /var/lib/lxc/test123/config

Остановим и запустим по новой:

sudo lxc-stop test1

```
root@VirtualBox:/var/lib/lxc/test1# sudo lxc-stop test1
root@VirtualBox:/var/lib/lxc/test1# lxc-ls -T
NAME STATE AUTOSTART GROUPS IPV4 IPV6 UNPRIVILEGED
test1 STOPPED 1 - - false
```