Домашняя работа № 2

1. Запустить контейнер с ubuntu, используя механизм LXC:

2. Ограничить контейнер 256 Мб ОЗУ и проверить, что ограничение работает:

3. Настроить автоматическую маршрутизацию между контейнерами.
Адреса можно взять: 10.0.12.0/24 и 10.0.13.0/24.
e.x. sudo lxc-create -n test123 -t ubuntu -f /usr/share/doc/lxc/examples/lxc-veth.conf:

Попытался выполнить задание, но получил ошибку на этапе запуска контейнеров.
Прикладываю скриншоты с командами и ошибками:

```
yakdd@yddux:~$ sudo cat /home/yakdd/temp/lxc-veth-1.conf
[sudo] пароль для yakdd:
# Container with network virtualized using a pre-configured bridge named br0 and
# veth pair virtual network devices
lxc.uts.name = beta
lxc.net.0.type = veth
lxc.net.0.flags = up
lxc.net.0.link = br0
lxc.net.0.hwaddr = 4a:49:43:49:79:bf
lxc.net.0.ipv4.address = 10.0.12.0/24
lxc.net.0.ipv6.address = 2003:db8:1:0:214:1234:fe0b:3597
yakdd@yddux:~$ sudo cat /home/yakdd/temp/lxc-veth-2.conf
# Container with network virtualized using a pre-configured bridge named br0 and
# veth pair virtual network devices
lxc.uts.name = beta
lxc.net.0.type = veth
lxc.net.0.flags = up
lxc.net.0.link = br0
lxc.net.0.hwaddr = 4a:49:43:49:79:bf
lxc.net.0.ipv4.address = 10.0.13.0/24
lxc.net.0.ipv6.address = 2003:db8:1:0:214:1234:fe0b:3597
yakdd@yddux:~$
```

yakdd@yddux: /

```
yakdd@yddux:/$ sudo lxc-create -n task3-1 -t ubuntu -f /home/yakdd/temp/lxc-veth-1.conf
Checking cache download in /var/cache/lxc/jammy/rootfs-amd64 ...
Copy /var/cache/lxc/jammy/rootfs-amd64 to /var/lib/lxc/task3-1/rootfs ...
Copying rootfs to /var/lib/lxc/task3-1/rootfs ...
Generating locales (this might take a while)...
  ru_RU.UTF-8... done
Generation complete.
Creating SSH2 RSA key; this may take some time ...
3072 SHA256:5r6fCOGhmmILvzV4pl/6kGfzVDT1OOgK0Pv5YUKx5Ig root@yddux (RSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:1NDbm/OqBmNRkJMCbupjIXDw6T9eD5IpFGnCPjM+69w root@yddux (ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:Y1GMORmKcH97dN9/ttVyY2qz5wKxepaMsPaob41pxa0 root@yddux (ED25519)
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.

Current default time zone: 'Etc/UTC'
Local time is now:      Wed Jul 12 10:33:39 UTC 2023.
Universal Time is now:  Wed Jul 12 10:33:39 UTC 2023.


##
# The default user is 'ubuntu' with password 'ubuntu'!
# Use the 'sudo' command to run tasks as root in the container.
##

yakdd@yddux:/$
```

```
yakdd@yddux:/$ sudo lxc-create -n task3-2 -t ubuntu -f /home/yakdd/temp/lxc-veth-2.conf
Checking cache download in /var/cache/lxc/jammy/rootfs-amd64 ...
Copy /var/cache/lxc/jammy/rootfs-amd64 to /var/lib/lxc/task3-2/rootfs ...
Copying rootfs to /var/lib/lxc/task3-2/rootfs ...
Generating locales (this might take a while)...
  ru_RU.UTF-8... done
Generation complete.
Creating SSH2 RSA key; this may take some time ...
3072 SHA256:UhnwZCCJs00fkBT5d2jERryWmKkMmHqxlEUF2rfhuzY root@yddux (RSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:zyTmiGPpNutBCH9OvKYk3PzvKH9ZE4nHyJozO0fJTg root@yddux (ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:YElRyVkAmgLWyqLnQ5D42SfpovUiKTwnW/uSl8SpIp4 root@yddux (ED25519)
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.

Current default time zone: 'Etc/UTC'
Local time is now:      Wed Jul 12 10:37:51 UTC 2023.
Universal Time is now:  Wed Jul 12 10:37:51 UTC 2023.


##
# The default user is 'ubuntu' with password 'ubuntu'!
# Use the 'sudo' command to run tasks as root in the container.
##

yakdd@yddux:/$
```

```
yakdd@yddux:~$ sudo lxc-ls -f
NAME        STATE    AUTOSTART GROUPS IPV4        IPV6 UNPRIVILEGED
homework-2  RUNNING 0         -      10.0.3.143 -    false
task3-1     STOPPED 0         -      -          -    false
task3-2     STOPPED 0         -      -          -    false
yakdd@yddux:~$ sudo lxc-start -n task3-1
lxc-start: task3-1: lxccontainer.c: wait_on_daemonized_start: 877 Received container state "ABORTING" instead of "RUNNING"
lxc-start: task3-1: tools/lxc_start.c: main: 306 The container failed to start
lxc-start: task3-1: tools/lxc_start.c: main: 309 To get more details, run the container in foreground mode
lxc-start: task3-1: tools/lxc_start.c: main: 311 Additional information can be obtained by setting the --logfile and --logpriority options
yakdd@yddux:~$ sudo lxc-start -n task3-1 --logfile=lxcStart
lxc-start: task3-1: lxccontainer.c: wait_on_daemonized_start: 877 Received container state "ABORTING" instead of "RUNNING"
lxc-start: task3-1: tools/lxc_start.c: main: 306 The container failed to start
lxc-start: task3-1: tools/lxc_start.c: main: 309 To get more details, run the container in foreground mode
lxc-start: task3-1: tools/lxc_start.c: main: 311 Additional information can be obtained by setting the --logfile and --logpriority options
yakdd@yddux:~$ cat lxcStart
cat: lxcStart: Отказано в доступе
yakdd@yddux:~$ sudo cat lxcStart
lxc-start task3-1 20230712113848.559 ERROR    network - network.c:netdev_configure_server_veth:711 - No such file or directory - Failed to attach "vethyoVCuF" to bridge "br0
", bridge interface doesn't exist
lxc-start task3-1 20230712113848.572 ERROR    network - network.c:lxc_create_network_priv:3427 - No such file or directory - Failed to create network device
lxc-start task3-1 20230712113848.572 ERROR    start - start.c:lxc_spawn:1843 - Failed to create the network
lxc-start task3-1 20230712113848.572 ERROR    lxccontainer - lxccontainer.c:wait_on_daemonized_start:877 - Received container state "ABORTING" instead of "RUNNING"
lxc-start task3-1 20230712113848.573 ERROR    lxc_start - tools/lxc_start.c:main:306 - The container failed to start
lxc-start task3-1 20230712113848.573 ERROR    lxc_start - tools/lxc_start.c:main:309 - To get more details, run the container in foreground mode
lxc-start task3-1 20230712113848.573 ERROR    lxc_start - tools/lxc_start.c:main:311 - Additional information can be obtained by setting the --logfile and --logpriority opti
ons
lxc-start task3-1 20230712113848.578 ERROR    start - start.c:__lxc_start:2074 - Failed to spawn container "task3-1"
yakdd@yddux:~$
```