

root@test-gb-1: /

```
vboxuser@Ubuntu-Linux:~$ sudo su
[sudo] пароль для vboxuser:
Попробуйте ещё раз.
[sudo] пароль для vboxuser:
root@Ubuntu-Linux:~# apt install cgroup-tools
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libcgroup1
The following NEW packages will be installed:
  cgroup-tools libcgroup1
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 121 kB of archives.
After this operation, 435 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ru.archive.ubuntu.com/ubuntu jammy/universe amd64 libcgroup1 amd64 2.0-2 [49,8 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu jammy/universe amd64 cgroup-tools amd64 2.0-2 [70,8 kB]
Fetched 121 kB in 7s (17,0 kB/s)
Selecting previously unselected package libcgroup1:amd64.
(Reading database ... 246190 files and directories currently installed.)
Preparing to unpack .../libcgroup1_2.0-2_amd64.deb ...
Unpacking libcgroup1:amd64 (2.0-2) ...
Selecting previously unselected package cgroup-tools.
Preparing to unpack .../cgroup-tools_2.0-2_amd64.deb ...
Unpacking cgroup-tools (2.0-2) ...
Setting up libcgroup1:amd64 (2.0-2) ...
Setting up cgroup-tools (2.0-2) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for man-db (2.10.2-1) ...
root@Ubuntu-Linux:~# cd /
root@Ubuntu-Linux:~# cd GB
root@Ubuntu-Linux:~# mkdir Container
root@Ubuntu-Linux:~# cd Container/
root@Ubuntu-Linux:~# cd Container# ls
root@Ubuntu-Linux:~# cd Container# unsher --fork --pid --mount-proc bash
Command 'unsher' not found, did you mean:
  command 'unshar' from deb sharutils (1:4.15.2-5build1)
Try: apt install <deb name>
root@Ubuntu-Linux:~# cd Container# unshare --fork --pid --mount-proc bash
root@Ubuntu-Linux:~# cd Container# top

top - 13:45:00 up 4 min,  2 users,  load average: 0,10, 0,37, 0,20
Tasks:  2 total,   1 running,   1 sleeping,   0 stopped,   0 zombie
%Cpu(s):  3,4 us,   0,0 sy,   0,0 ni, 96,6 id,   0,0 wa,   0,0 hi,   0,0 st,   0,0 st
MiB Mem :  5794,1 total,  1950,4 free,  1784,5 used,  2059,1 buff/cache
MiB Swap: 2048,0 total,  2048,0 free,   0,0 used.  3724,0 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	19340	4392	3700	S	0,0	0,1	0:00.00	bash
7	root	20	0	21920	3584	3224	R	0,0	0,1	0:00.00	top

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root@Ubuntu-Linux:/GB/Container# cgcreate -a $USER -g memory:mytestgroup -g cpu:mytestgroup
root@Ubuntu-Linux:/GB/Container# ls /sys/fs/cgroup/mytestgroup/
cgroup.controllers      cpuset.cpus.effective  io.max                  memory.reclaim
cgroup.events            cpuset.cpus.partition  io.pressure             memory.stat
cgroup.freeze            cpuset.mems             io.prio.class           memory.swap.current
cgroup.kill              cpuset.mems.effective  io.stat                 memory.swap.events
cgroup.max.depth         cpu.stat                io.weight               memory.swap.high
cgroup.max.descendants    cpu.uclamp.max          memory.current           memory.swap.max
cgroup.procs             cpu.uclamp.min          memory.events            memory.zswap.current
cgroup.stat              cpu.weight              memory.events.local     memory.zswap.max
cgroup.subtree_control   cpu.weight.nice         memory.high              nisc.current
cgroup.threads           hugetlb.2MB.current     memory.low               nisc.events
cgroup.type              hugetlb.2MB.events      memory.max               nisc.max
cpu.idle                 hugetlb.2MB.events.local memory.min               pids.current
cpu.max                  hugetlb.2MB.max         memory.numa_stat         pids.events
cpu.max.burst            hugetlb.2MB.numa_stat   memory.oom.group         pids.max
cpu.pressure             hugetlb.2MB.rsvd.current memory.peak              rdma.current
cpuset.cpus             hugetlb.2MB.rsvd.max    memory.pressure          rdma.max
root@Ubuntu-Linux:/GB/Container# cat /sys/fs/cgroup/mytestgroup/memory.min
0
root@Ubuntu-Linux:/GB/Container# cat /sys/fs/cgroup/mytestgroup/memory.max
max
root@Ubuntu-Linux:/GB/Container# cat /sys/fs/cgroup/mytestgroup/memory.low
0
root@Ubuntu-Linux:/GB/Container# cat /sys/fs/cgroup/mytestgroup/cpu.stat
usage_usec 0
user_usec 0
system_usec 0
nr_periods 0
nr_throttled 0
throttled_usec 0
nr_bursts 0
burst_usec 0
root@Ubuntu-Linux:/GB/Container# exit
exit
root@Ubuntu-Linux:/GB/Container# exit
exit
vboxuser@Ubuntu-Linux:~$ ls
forTests      virtualbox-7.0_7.0.6-155176-Ubuntu-jammy_amd64.deb  Загрузки      'Рабочий стол'
'From work GB'  wordpress                                             Изображения   Шаблоны
newFolder      Видео                                                 Музыка
snap           Документы                                             Общедоступные
vboxuser@Ubuntu-Linux:~$ sudo su
[sudo] пароль для vboxuser:
root@Ubuntu-Linux:/home/vboxuser# apt install lxc debootstrap bridge-utils lxc-templates
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
bridge-utils is already the newest version (1.7-1ubuntu3).
bridge-utils set to manually installed.
The following additional packages will be installed:
  arch-test cloud-image-utils fakechroot ibverbs-providers libdaxctl1 libdistro-info-perl
  libfakechroot libfuse2 libgfs2 libgfrpc0 libgfxdr0 libglusterfs0 libibverbs1 libiscsi7
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lxc-unshare: tools/lxc_unshare.c: main: 436 No such file or directory - Failed to wait for '22555'
Container upgrade failed. The container cache may be out of date,
in which case flushing the cache (see -F in the help output) may help.
lxc-create: test-gb-1: lxccontainer.c: create_run_template: 1627 Failed to create container from template
lxc-create: test-gb-1: tools/lxc_create.c: main: 317 Failed to create container test-gb-1
root@Ubuntu-Linux:/home/vboxuser# lxc-start -n test-gb-1
lxc-start: test-gb-1: tools/lxc_start.c: main: 266 No container config specified
root@Ubuntu-Linux:/home/vboxuser# lxc-create -n test-gb-1 -t ubuntu
Checking cache download in /var/cache/lxc/jammy/rootfs-amd64 ...
Installing packages in template: apt-transport-https,ssh,vim,language-pack-en,language-pack-ru
Downloading ubuntu jammy minimal ...
I: Target architecture can be executed
I: Retrieving InRelease
I: Checking Release signature
I: Valid Release signature (key id F6ECB3762474EDA9D21B7022871920D1991BC93C)
I: Retrieving Packages
I: Validating Packages
I: Retrieving Packages
I: Validating Packages
I: Resolving dependencies of required packages...
I: Resolving dependencies of base packages...
I: Checking component main on http://archive.ubuntu.com/ubuntu...
I: Checking component universe on http://archive.ubuntu.com/ubuntu...
I: Retrieving adduser 3.118ubuntu5
I: Validating adduser 3.118ubuntu5
I: Retrieving apt 2.4.5
I: Validating apt 2.4.5
I: Retrieving apt-utils 2.4.5
I: Validating apt-utils 2.4.5
I: Retrieving base-files 12ubuntu4
I: Validating base-files 12ubuntu4
I: Retrieving base-passwd 3.5.52build1
I: Validating base-passwd 3.5.52build1
I: Retrieving bash 5.1-6ubuntu1
I: Validating bash 5.1-6ubuntu1
I: Retrieving bsdutils 1:2.37.2-4ubuntu3
I: Validating bsdutils 1:2.37.2-4ubuntu3
I: Retrieving ca-certificates 20211016
I: Validating ca-certificates 20211016
I: Retrieving console-setup 1.205ubuntu3
I: Validating console-setup 1.205ubuntu3
I: Retrieving console-setup-linux 1.205ubuntu3
I: Validating console-setup-linux 1.205ubuntu3
I: Retrieving coreutils 8.32-4.1ubuntu1
I: Validating coreutils 8.32-4.1ubuntu1
I: Retrieving cron 3.0pl1-137ubuntu3
I: Validating cron 3.0pl1-137ubuntu3
I: Retrieving dash 0.5.11+git20210903+057cd650a4ed-3build1
I: Validating dash 0.5.11+git20210903+057cd650a4ed-3build1
I: Retrieving dbus 1.12.20-2ubuntu4
I: Validating dbus 1.12.20-2ubuntu4
I: Retrieving debconf 1.5.79ubuntu1
I: Validating debconf 1.5.79ubuntu1
I: Retrieving debconf-i18n 1.5.79ubuntu1
```


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Current default time zone: 'Etc/UTC'

Local time is now: Пт 23 июн 2023 09:24:44 UTC.

Universal Time is now: Fri Jun 23 09:24:44 UTC 2023.

##

The default user is 'ubuntu' with password 'ubuntu'!

Use the 'sudo' command to run tasks as root in the container.

##

root@Ubuntu-Linux:/home/vboxuser# lxc-start -n test-gb-1

root@Ubuntu-Linux:/home/vboxuser# lxc-attach -n test-gb-1

root@test-gb-1:/# cd /

root@test-gb-1:/# ls -l

```
total 44
lrwxrwxrwx 1 root root 7 июн 23 09:22 bin -> usr/bin
drwxr-xr-x 2 root root 4096 апр 18 2022 boot
drwxr-xr-x 7 root root 540 июн 23 09:25 dev
drwxr-xr-x 63 root root 4096 июн 23 09:24 etc
drwxr-xr-x 3 root root 4096 июн 23 09:24 home
lrwxrwxrwx 1 root root 7 июн 23 09:22 lib -> usr/lib
lrwxrwxrwx 1 root root 9 июн 23 09:22 lib32 -> usr/lib32
lrwxrwxrwx 1 root root 9 июн 23 09:22 lib64 -> usr/lib64
lrwxrwxrwx 1 root root 10 июн 23 09:22 libx32 -> usr/libx32
drwxr-xr-x 2 root root 4096 июн 23 09:22 media
drwxr-xr-x 2 root root 4096 июн 23 09:22 mnt
drwxr-xr-x 2 root root 4096 июн 23 09:22 opt
dr-xr-xr-x 368 root root 0 июн 23 09:25 proc
drwx----- 2 root root 4096 июн 23 09:22 root
drwxr-xr-x 14 root root 420 июн 23 09:25 run
lrwxrwxrwx 1 root root 8 июн 23 09:22 sbin -> usr/sbin
drwxr-xr-x 2 root root 4096 июн 23 09:22 srv
dr-xr-xr-x 13 root root 0 июн 23 09:25 sys
drwxrwxrwt 9 root root 4096 июн 23 09:25 tmp
drwxr-xr-x 14 root root 4096 июн 23 09:22 usr
drwxr-xr-x 11 root root 4096 июн 23 09:22 var
```

root@test-gb-1:/# free -m

	total	used	free	shared	buff/cache	available
Mem:	5794	27	5762	0	4	5766
Swap:	0	0	0			

root@test-gb-1:/# exit

exit

root@Ubuntu-Linux:/home/vboxuser# lxc-cgroup -n test-gb-1 memory.max 3072M

root@Ubuntu-Linux:/home/vboxuser# free -m

	total	used	free	shared	buff/cache	available
Mem:	5794	1839	611	47	3343	3632
Swap:	2047	0	2047			

root@Ubuntu-Linux:/home/vboxuser# lxc-attach -n test-gb-1

root@test-gb-1:/# free -m

	total	used	free	shared	buff/cache	available
Mem:	3072	27	3040	0	4	3044
Swap:	0	0	0			

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