

```
root@Ubuntu:/home/lpanda/lk2# lxc-create -n test123 -t ubuntu -f /usr/share/doc/lxc/examples/lxc-veth.conf
lxc-create: test123: parse.c: lxc_file_for_each_line_mmap: 78 No such file or directory - Failed to open file "/usr/share/doc/lxc/examples/lxc-veth.conf"
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 bsdtar 1:2.37.2-4ubuntu3
I: Validating bsdtar 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
```

```
Running hooks in /etc/ca-certificates/update.d...
done.
Download complete
Copy /var/cache/lxc/jammy/rootfs-amd64 to /var/lib/lxc/test123/rootfs ...
Copying rootfs to /var/lib/lxc/test123/rootfs ...
Generating locales (this might take a while)...
  en_US.ISO-8859-1... done
Generation complete.
Creating SSH2 RSA key; this may take some time ...
3072 SHA256:ywXiM0nw19PPitCXzckasfJvnWHkgg4RWfSjduZaSLQ root@Ubuntu (RSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:64fb2YwKCzCh9mB8NgthZbfb0ZVigE2k0ZUBcapmdRc root@Ubuntu (ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:eneDWEIMsTWZ0h1HabABRoA/yxNUqfOTjmZOL7dYlqc root@Ubuntu (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:      Чт 13 июл 2023 15:25:41 UTC.
Universal Time is now:  Thu Jul 13 15:25:41 UTC 2023.

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

```
root@Ubuntu:/sys/fs/cgroup/lxc.payload.test123# lxc-ls -f
NAME      STATE    AUTOSTART GROUPS IPV4 IPV6 UNPRIVILEGED
test123   RUNNING  0         -     -     -     false
root@Ubuntu:/sys/fs/cgroup/lxc.payload.test123#
```

GNU nano 6.2

```
# Template used to create this container: /usr/share/lxc/templates/lxc-ubuntu
# Parameters passed to the template:
# For additional config options, please look at lxc.container.conf(5)
```

```
# Uncomment the following line to support nesting containers:
#lxc.include = /usr/share/lxc/config/nesting.conf
# (Be aware this has security implications)
```

```
# Common configuration
```

```
lxc.include = /usr/share/lxc/config/ubuntu.common.conf
```

```
# Container specific configuration
```

```
lxc.rootfs.path = dir:/var/lib/lxc/test123/rootfs
```

```
lxc.uts.name = test123
```

```
lxc.arch = amd64
```

```
lxc.cgroup2.memory.max = 256M
```

```
# Network configuration
```

```
root@Ubuntu:/sys/fs/cgroup/lxc.payload.test123# nano /var/lib/lxc/test123/config
root@Ubuntu:/sys/fs/cgroup/lxc.payload.test123# lxc-stop -n test123
root@Ubuntu:/sys/fs/cgroup/lxc.payload.test123# lxc-start -d -n test123
root@Ubuntu:/sys/fs/cgroup/lxc.payload.test123# lxc-attach -n test123
root@test123:/# free -m
```

	total	used	free	shared	buff/cache	available
Mem:	256	26	228	0	0	229
Swap:	0	0	0			

```
root@test123:/# █
```



```
root@Ubuntu:/home/lpanda/lk2# lxc-cgroup -n testgb-2 memory.max 256M
root@Ubuntu:/home/lpanda/lk2# lxc-attach -n testgb-2
root@testgb-2:/# exit
exit
root@Ubuntu:/home/lpanda/lk2# lxc-attach -n testgb-2
root@testgb-2:/# free -m
```

	total	used	free	shared	buff/cache	available
Mem:	256	27	224	0	4	228
Swap:	0	0	0			

```
root@testgb-2:/# exit
exit
root@Ubuntu:/home/lpanda/lk2# lxc-cgroup -n testgb-2 memory.max max
root@Ubuntu:/home/lpanda/lk2# lxc-attach -n testgb-2
root@testgb-2:/# free -m
```

	total	used	free	shared	buff/cache	available
Mem:	7936	27	7905	0	4	7909
Swap:	0	0	0			

```
root@testgb-2:/# exit
exit
root@Ubuntu:/home/lpanda/lk2#
```

```
root@Ubuntu:/usr/share# lxc-ls -f
NAME          STATE    AUTOSTART GROUPS IPV4          IPV6 UNPRIVILEGED
hw1           RUNNING  0         -      10.0.3.159   -     false
hw2           RUNNING  0         -      10.0.3.125   -     false
test123       STOPPED  0         -      -            -     false
testgb-2      STOPPED  0         -      -            -     false
root@Ubuntu:/usr/share# lxc-attach hw1
root@hw1:/usr/share# ping 10.0.3.125
PING 10.0.3.125 (10.0.3.125) 56(84) bytes of data.
64 bytes from 10.0.3.125: icmp_seq=1 ttl=64 time=0.023 ms
64 bytes from 10.0.3.125: icmp_seq=2 ttl=64 time=0.034 ms
64 bytes from 10.0.3.125: icmp_seq=3 ttl=64 time=0.035 ms
64 bytes from 10.0.3.125: icmp_seq=4 ttl=64 time=0.036 ms
^C
--- 10.0.3.125 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3071ms
rtt min/avg/max/mdev = 0.023/0.032/0.036/0.005 ms
root@hw1:/usr/share# exit
exit
root@Ubuntu:/usr/share# lxc-attach hw2
root@hw2:/usr/share# ping 10.0.3.159
PING 10.0.3.159 (10.0.3.159) 56(84) bytes of data.
64 bytes from 10.0.3.159: icmp_seq=1 ttl=64 time=0.040 ms
64 bytes from 10.0.3.159: icmp_seq=2 ttl=64 time=0.033 ms
64 bytes from 10.0.3.159: icmp_seq=3 ttl=64 time=0.030 ms
64 bytes from 10.0.3.159: icmp_seq=4 ttl=64 time=0.164 ms
64 bytes from 10.0.3.159: icmp_seq=5 ttl=64 time=0.033 ms
^C
--- 10.0.3.159 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4093ms
rtt min/avg/max/mdev = 0.030/0.060/0.164/0.052 ms
root@hw2:/usr/share#
```