

```
geek@geek-VirtualBox: ~/testfolder/bin
geek@geek-VirtualBox:~$ mkdir ~/testfolder
geek@geek-VirtualBox:~$ mkdir ~/testfolder/bin
geek@geek-VirtualBox:~$ cp /bin/bash ~/testfolder/bin
geek@geek-VirtualBox:~$ cd ~/testfolder/bin
geek@geek-VirtualBox:~/testfolder/bin$ ll
итого 1372
drwxrwxr-x 2 geek geek 4096 кэс 2 20:03 ./
drwxrwxr-x 3 geek geek 4096 кэс 2 20:01 ../
-rwxr-xr-x 1 geek geek 1396520 кэс 2 20:03 bash*
geek@geek-VirtualBox:~/testfolder/bin$
```

```
geek@geek-VirtualBox: ~
geek@geek-VirtualBox:~$ mkdir ~/testfolder/lib ~/testfolder/lib64
geek@geek-VirtualBox:~$ cp /lib/x86_64-linux-gnu/libtinfo.so.6 ~/testfolder/lib
geek@geek-VirtualBox:~$ cp /lib/x86_64-linux-gnu/libc.so.6 ~/testfolder/lib
geek@geek-VirtualBox:~$ cp /lib64/ld-linux-x86-64.so.2 ~/testfolder/lib64/
geek@geek-VirtualBox:~$ sudo chroot ~/testfolder
bash-5.1# ls
bash: ls: command not found
bash-5.1# exit
exit
geek@geek-VirtualBox:~$
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```
geek@geek-VirtualBox:~$ cp /bin/ls ~/testfolder/bin/
geek@geek-VirtualBox:~$ cp /lib/x86_64-linux-gnu/libselinux.so.1 ~/testfolder/lib/
geek@geek-VirtualBox:~$ cp /lib/x86_64-linux-gnu/libpcre2-8.so.0 ~/testfolder/lib/
geek@geek-VirtualBox:~$ ldd ~/testfolder/bin/ls
        linux-vdso.so.1 (0x00007fff553c7000)
        libselinux.so.1 => /lib/x86_64-linux-gnu/libselinux.so.1 (0x00007efd5ce6300)
        libc.so.6 => /lib/x86_64-linux-gnu/libc.so.6 (0x00007efd5cc00000)
        libpcre2-8.so.0 => /lib/x86_64-linux-gnu/libpcre2-8.so.0 (0x00007efd5cb6900)
        /lib64/ld-linux-x86-64.so.2 (0x00007efd5cec4000)
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geek@geek-VirtualBox: ~
geek@geek-VirtualBox:~$ sudo chroot ~/testfolder
dash-5.1# ls
bin lib lib64
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geek@geek-VirtualBox:~$ ip netns add testns
mount --make-shared /run/netns failed: Operation not permitted
geek@geek-VirtualBox:~$ sudo ip netns add testns
geek@geek-VirtualBox:~$ sudo ip netns exec testns bash
root@geek-VirtualBox:/home/geek# ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.3 101244 11772 ?        Ss   19:03   0:01 /sbin/init splash
root         2  0.0  0.0      0     0 ?        S    19:03   0:00 [kthreadd]
root         3  0.0  0.0      0     0 ?        I<   19:03   0:00 [rcu_gp]
root         4  0.0  0.0      0     0 ?        I<   19:03   0:00 [rcu_par_gp]
root         5  0.0  0.0      0     0 ?        I<   19:03   0:00 [slub_flushwq]
root         6  0.0  0.0      0     0 ?        I<   19:03   0:00 [netns]
root         8  0.0  0.0      0     0 ?        I<   19:03   0:00 [kworker/0:0H-even
root        10  0.0  0.0      0     0 ?        I<   19:03   0:00 [mm_percpu_wq]
root        11  0.0  0.0      0     0 ?        I    19:03   0:00 [rcu_tasks_kthread
root        12  0.0  0.0      0     0 ?        I    19:03   0:00 [rcu_tasks_rude_kt
root        13  0.0  0.0      0     0 ?        I    19:03   0:00 [rcu_tasks_trace_k
root        14  0.0  0.0      0     0 ?        S    19:03   0:00 [ksoftirqd/0]
root        15  0.0  0.0      0     0 ?        I    19:03   0:01 [rcu_preempt]
root        16  0.0  0.0      0     0 ?        S    19:03   0:00 [migration/0]
root        17  0.0  0.0      0     0 ?        S    19:03   0:00 [idle_inject/0]
root        18  0.0  0.0      0     0 ?        I    19:03   0:01 [kworker/0:1-event
root        19  0.0  0.0      0     0 ?        S    19:03   0:00 [cpuhp/0]
root        20  0.0  0.0      0     0 ?        S    19:03   0:00 [cpuhp/1]
root        21  0.0  0.0      0     0 ?        S    19:03   0:00 [idle_inject/1]
root        22  0.0  0.0      0     0 ?        S    19:03   0:00 [migration/1]
root        23  0.0  0.0      0     0 ?        S    19:03   0:00 [ksoftirqd/1]
root        26  0.0  0.0      0     0 ?        S    19:03   0:00 [kdevtmpfs]
root        27  0.0  0.0      0     0 ?        I<   19:03   0:00 [inet_frag_wq]
root        28  0.0  0.0      0     0 ?        S    19:03   0:00 [kauditd]
root        29  0.0  0.0      0     0 ?        S    19:03   0:00 [khungtaskd]
root        31  0.0  0.0      0     0 ?        S    19:03   0:00 [oom_reaper]
root        33  0.0  0.0      0     0 ?        I<   19:03   0:00 [writeback]
root        34  0.0  0.0      0     0 ?        S    19:03   0:00 [kcompactd0]
root        35  0.0  0.0      0     0 ?        SN   19:03   0:00 [ksmd]
root        36  0.0  0.0      0     0 ?        SN   19:03   0:00 [khugepaged]
root        37  0.0  0.0      0     0 ?        I<   19:03   0:00 [kintegrityd]
root        38  0.0  0.0      0     0 ?        I<   19:03   0:00 [kblockd]
root        39  0.0  0.0      0     0 ?        I<   19:03   0:00 [blkcg_punt_bio]
root        40  0.0  0.0      0     0 ?        I<   19:03   0:00 [tpm_dev_wq]
root        41  0.0  0.0      0     0 ?        I<   19:03   0:00 [ata_sff]
root        42  0.0  0.0      0     0 ?        I<   19:03   0:00 [md]
root        43  0.0  0.0      0     0 ?        I<   19:03   0:00 [edac-poller]
root        44  0.0  0.0      0     0 ?        I<   19:03   0:00 [devfreq_wq]
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root@geek-VirtualBox:/home/geek# unshare --net --pid --fork --mount-proc /bin/bash
ps aux
root@geek-VirtualBox:/home/geek# ls
cv_debug.log      info.php          lesson7           testfolder       Музыка
Docker_Container  lesson2           lesson8           Видео            Общедоступные
hello             lesson2.sh        nginx_signing.key Документы        'Рабочий стол'
helloWorld        lesson3           snap             Загрузки         Шаблоны
helloworld.sh     lesson4           test             Изображения
root@geek-VirtualBox:/home/geek# ls/
bash: ls/: Нет такого файла или каталога
root@geek-VirtualBox:/home/geek# ls /
bin    dev    lib    libx32  mnt    root   snap   sys    var
boot   etc    lib32  lost+found  opt    run    srv    tmp    www
cdrom  home  lib64  media   proc   sbin   swapfile  usr
root@geek-VirtualBox:/home/geek# ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.1  10476  4352 pts/1    S    20:46   0:00 /bin/bash
root        10  0.0  0.0  12944  3584 pts/1    R+   20:47   0:00 ps aux
root@geek-VirtualBox:/home/geek#

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