04 守护进程子进程

杀死守护进程的子进程

使用 ps -ef | grep test 查看相关进程

注: 此时父进程应当有回收子进程的处理,否则杀死子进程后子进程会变为僵尸进程

kill [进程号] 杀死对应子进程

```
[root@vm-linux-croot 16522 root 16524 root 16525 root 16526 root 16527 root 16528 root 16529 root 16530 root 16531 root 16532 root 16532 root 16532 root 16532 root 16534
                                                                 04]#
0 1
                                                                                                        grep
                                                                                           e??????????
                                                                                                                    test
00:00:00
                                                                         15:35
15:35
15:35
15:35
15:35
15:35
15:35
15:35
15:35
                                                16522
16522
16522
16522
16522
16522
16522
16522
16522
                                                                    Ō
                                                                                                                    00:00:00
                                                                                                                    00:00:00
00:00:00
00:00:00
                                                                    0
                                                                    0
                                                                                                                    00:00:00
00:00:00
                                                                    000
                                                                                                                    00:00:00
00:00:00
                                                                    Ō
                                                                    Ō
                                                                                                                    00:00:00
                                                                    Ō
                                                                                                                                                   test4-1
                                                                                                                    00:00:00
                                                 15336
                                                                    0
                                                                                          pts/1
                                                                                                                    00:00:00
                                                                                                                                            grep --color=auto test
                                                                 04]# kill 16523
 [root@vm-linux-centos7
[root@vm-linux-centos/

Lroot@vm-linux-centos/

root 16522 1

root 16524 16522

root 16525 16522

root 16526 16522

root 16527 16522

root 16528 16522

root 16529 16522

root 16530 16522

root 16531 16522

root 16532 16522

root 16532 16522

root 16536 15336
                                                                 04]# k11

04]# ps

0 15:35

0 15:35

0 15:35

0 15:35

0 15:35

0 15:35

0 15:35

0 15:35
                                                                                                        grep test
00:00:00
00:00:00
                                                                                        -et
?
?
?
?
?
?
                                                                                                                    00:00:00
00:00:00
00:00:00
                                                                                                                                                    test4-1
                                                                                                                                                     test4-1
                                                                                                                                                     test4-1
                                                                                                                    00:00:00
00:00:00
                                                                                                                    00:00:00
00:00:00
00:00:00
                                                                                                                                                             t4-1
                                                                                                                                                   test4-1
                                                                                                                    00:00:00 grep --color=auto test
                                                                                           pts/1
 pkill -P [父进程号] 杀死对应父进程号的所有子进程
[root@vm-linux-centos7
root 16522 1
root 16524 16522
root 16525 16522
root 16526 16522
root 16527 16522
root 16528 16522
root 16529 16522
root 16530 16522
root 16531 16522
root 16532 16522
root 16532 16522
                                                                04]# ps
0 15:35
0 15:35
0 15:35
0 15:35
0 15:35
0 15:35
0 15:35
                                                                                                  | grep test
| 00:00:00
| 00:00:00
| 00:00:00
                                                                                         e???????????
                                                                                                                                                            <del>t</del>4-1
                                                                                                                    00:00:00
                                                                                                                    00:00:00
00:00:00
                                                                                                                                                            +4-
                                                                                                                    00:00:00
                                                                                                                    00:00:00
00:00:00
00:00:00
                                                                                                                                                            <del>+</del>4-1
                                                                                                                                                            t4-1
                                                                                                                                                               -color-auto test
  [root@vm-linux-centos7 04]# pkill -P 16522
[root@vm-linux-centos7 04]# ps -ef | grep
root 16522 1 0 15:35 ? 00
                                                                                                        grep test
00:00:00 ./test4-1
                            16540 15336 U 15:38 pts/1
                                                                                                                    00:00:00 grep --color=auto test
 root
```

如果直接杀死父进程,所有子进程会被 1#进程接管继续运行

```
[root@vm-linux-centos7
[root@vm-linux-centos7
root 16545 1
root 16546 1
root 16547 1
root 16548 1
root 16549 1
root 16550 1
root 16551 1
root 16552 1
root 16553 1
root 16553 1
root 16554 1
root 16563 15336
                                                                             04]# kil
04]# ps -
0 15:39
0 15:39
0 15:39
0 15:39
0 15:39
0 15:39
0 15:39
                                                                                                       -ef
9 ?
9 ?
9 ?
                                                                                                                                           00:00:00
                                                                                                                                          00:00:00
00:00:00
00:00:00
00:00:00
                                                                                                            ???????
                                                                                                                                           00:00:00
00:00:00
                                                                                                                                                                                           t4-1
                                                                                                                                                                                test4-1
test4-1
                                                                                                                                           00:00:00
                                                                                                                                           00:00:00
00:00:00
                                                                                        1
                                                                                                   39
                                                                                 0
                                   16563
                                                          15336
                                                                                            5:40
                                                                                 0
                                                                                                            pts/1
                                                                                                                                                                                         --color=auto test
 root
                                                                                                                                                                         grep
```

使用 killall test4-1 杀掉所有 test4-1 进程 代码中包含头文件

#include <sys/prctl.h>
#include <signal.h>

在子进程中使用 prctl 设置父进程退出后,发送 kill 给子进程

prctl(PR_SET_PDEATHSIG, SIGKILL);

此时直接 kill 父进程,所有子进程会被 1#接管并接受 kill 指令,被 1#进程回收