

# 守护进程的编写和使用方法 02

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## 守护进程的作用、用途、父进程标识的特点

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### 1 用./test2运行后直接成为守护进程

在程序main函数中加入daemon(1,1);

```
// test2.c
#include <stdio.h>
#include <unistd.h>
#include <time.h>

int main(){
    daemon(1,1);

    while(1){
        printf("1652238\n");
        fflush(stdout);
        sleep(5);
    };
    return 0;
}
```

daemon(0,0)

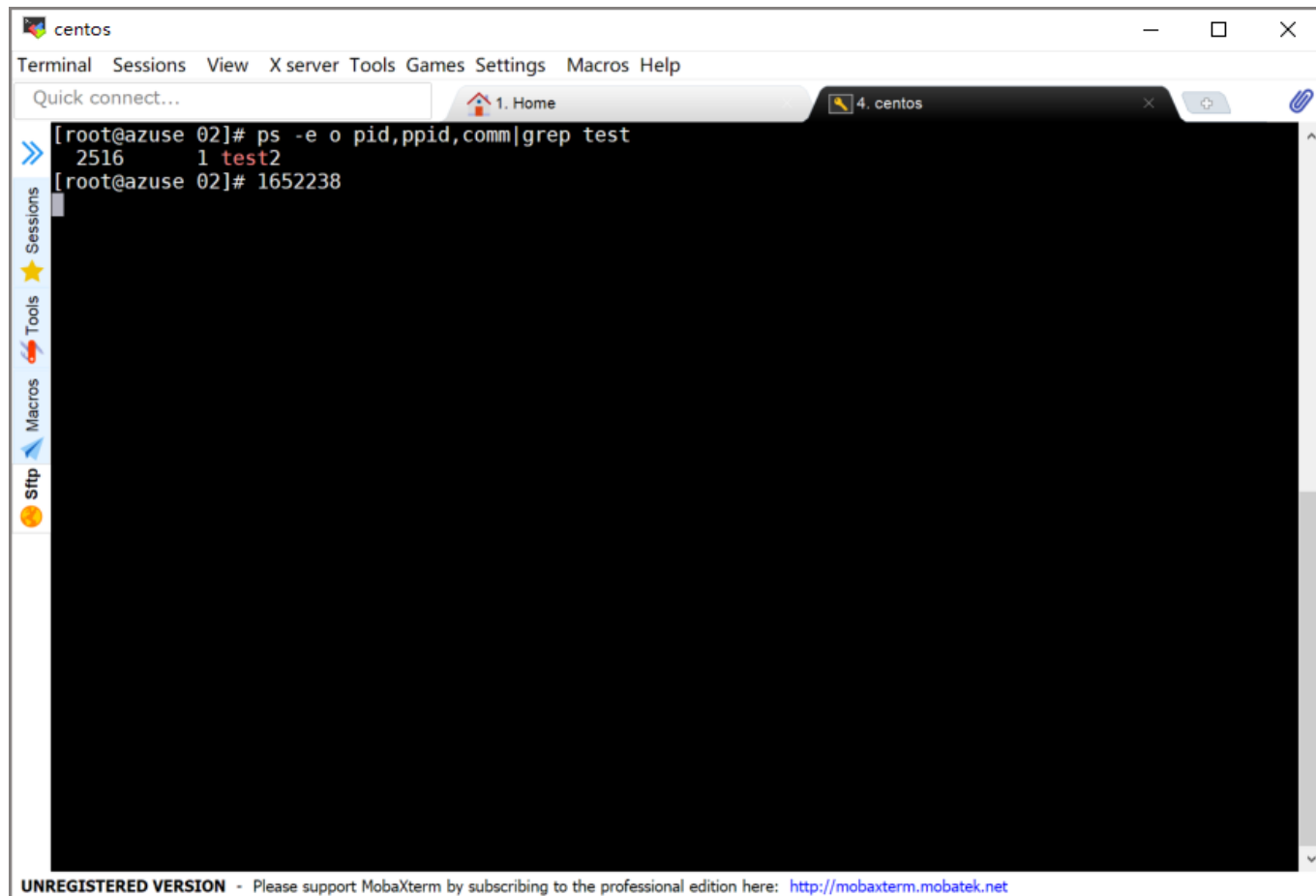
第一个为0代表切换当前工作目录到"/", 其他情况不改变工作目录

第二个为0代表重定义stdin,stdout,stderr到"/dev/null"(丢弃), 其他情况不改变重定向

### 2 test2的进程标识、父进程标识是谁、如何查看？

用ps -e还是可以看到test2, 但是用jobs看不到

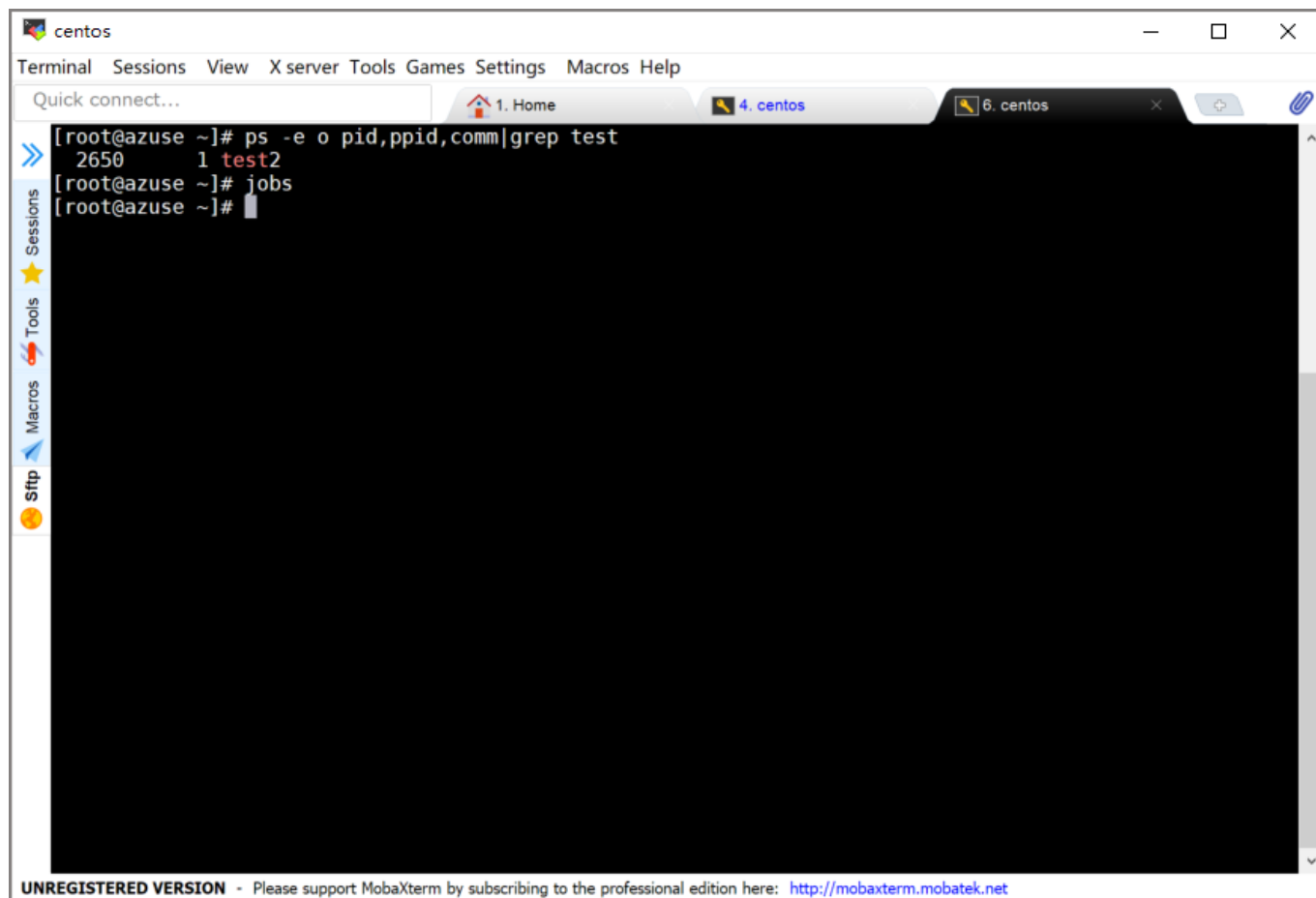
test2的父进程是1#



```
centos
Terminal Sessions View X server Tools Games Settings Macros Help
Quick connect... 1. Home 4. centos
[root@azuse 02]# ps -e o pid,ppid,comm|grep test
2516 1 test2
[root@azuse 02]# 1652238
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```

3 在另一个控制台能否查看到test2相关的信息？

ps -e可以, jobs不行

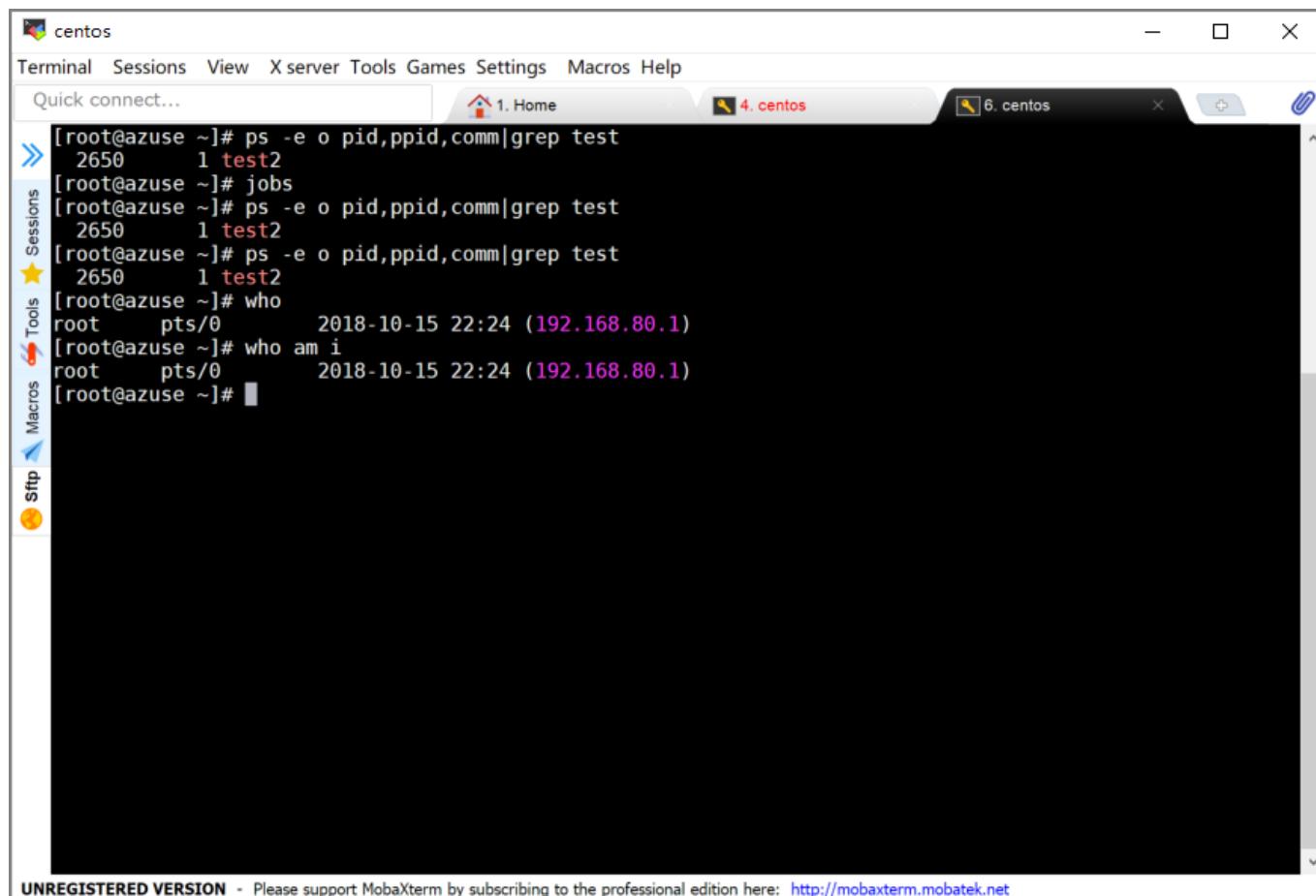


```
centos
Terminal Sessions View X server Tools Games Settings Macros Help
Quick connect... 1. Home 4. centos 6. centos
[root@azuse ~]# ps -e o pid,ppid,comm|grep test
2650 1 test2
[root@azuse ~]# jobs
[root@azuse ~]#
```

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4 终端退出之后，test2会怎么样？

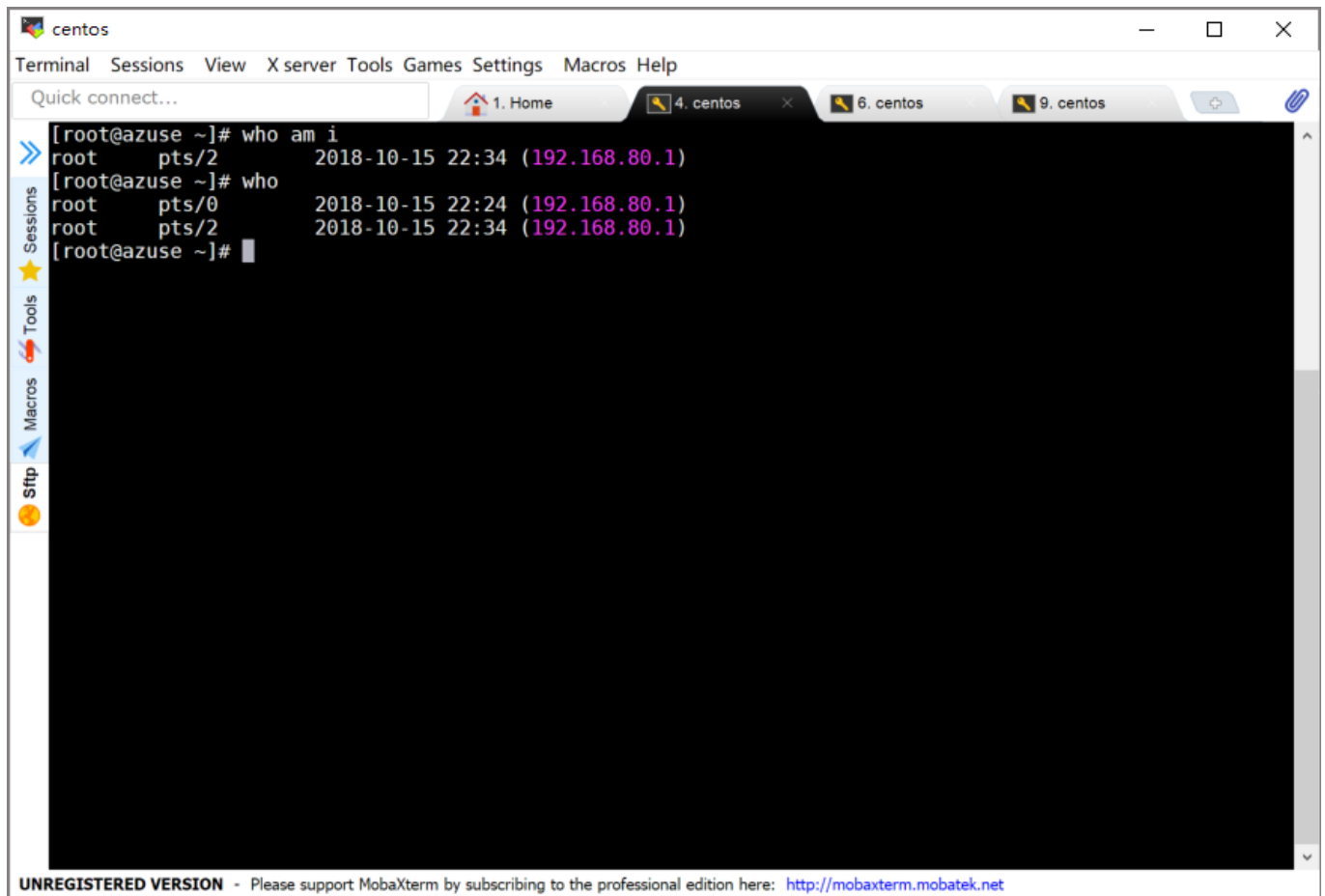
会继续运行



```
[root@azuse ~]# ps -e o pid,ppid,comm|grep test
2650      1 test2
[root@azuse ~]# jobs
[root@azuse ~]# ps -e o pid,ppid,comm|grep test
2650      1 test2
[root@azuse ~]# ps -e o pid,ppid,comm|grep test
2650      1 test2
[root@azuse ~]# who
root      pts/0          2018-10-15 22:24 (192.168.80.1)
[root@azuse ~]# who am i
root      pts/0          2018-10-15 22:24 (192.168.80.1)
[root@azuse ~]#
```

5 再次登录之后test2是否在运行，打印信息能否继续出现在新登录的终端上？

test2在运行，但是不可能继续显示在新的终端上，因为test2运行时是向/dev/pts/1输出信息的，而再次登录之后pts跳过1变成了pts/2，所以pts/2上是不可能显示它向pts/1输出的信息的



The screenshot shows a MobaXterm terminal window titled 'centos'. The terminal displays the output of the 'who' command, showing three active sessions for the 'root' user. The sessions are listed as follows:

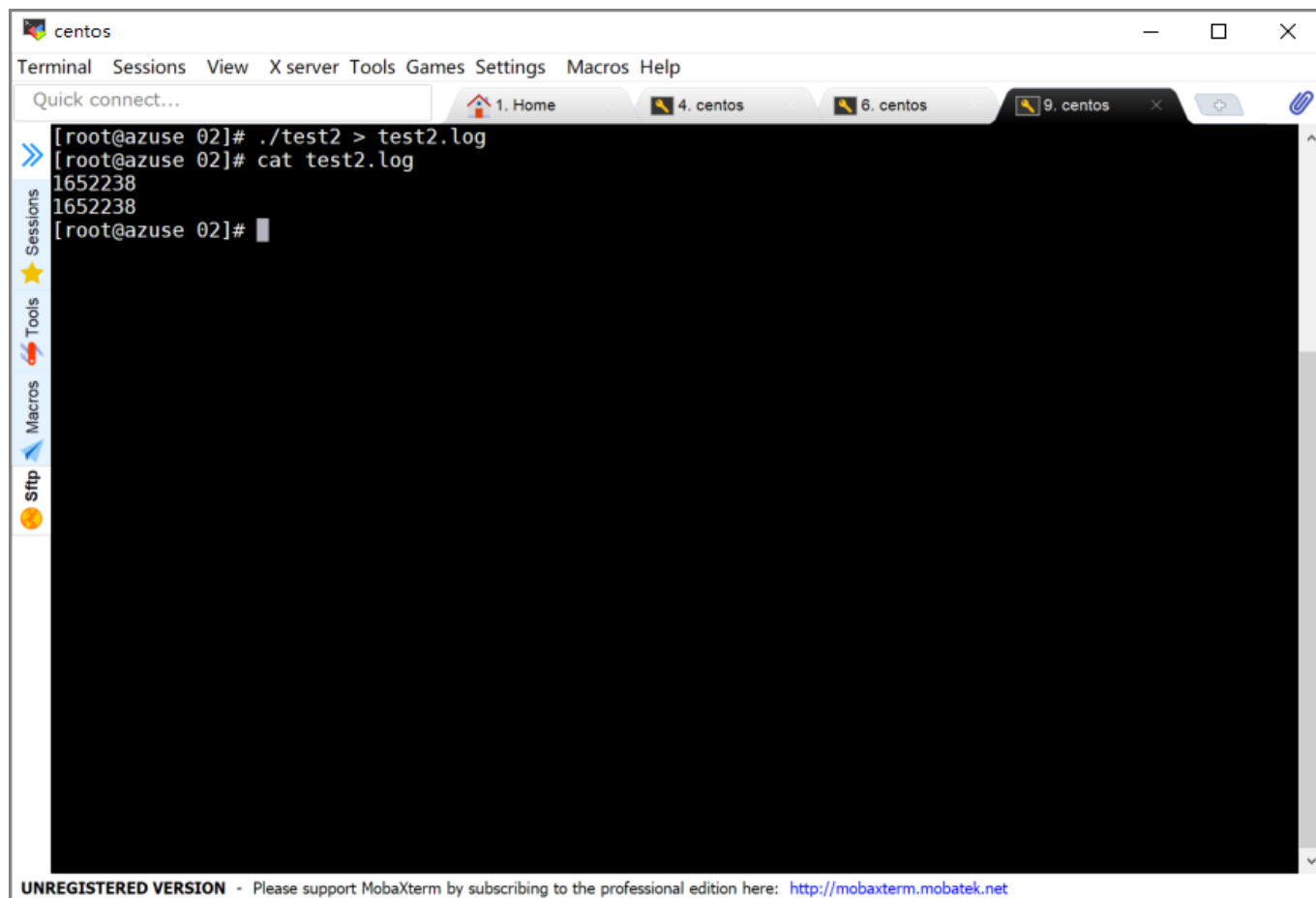
```
[root@azuse ~]# who am i
root    pts/2      2018-10-15 22:34 (192.168.80.1)
[root@azuse ~]# who
root    pts/0      2018-10-15 22:24 (192.168.80.1)
root    pts/2      2018-10-15 22:34 (192.168.80.1)
[root@azuse ~]#
```

The terminal window includes a menu bar with options: Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help. A sidebar on the left contains icons for Sessions, Tools, Macros, and Sftp. The bottom of the window displays a message: 'UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <http://mobaxterm.mobatek.net>'.

## 6 如果想在进程中打印的信息并保证始终能被看到，应该如何做？

用重定向输出到文件中

例 `./test2 > test2.log`



```
centos
Terminal Sessions View X server Tools Games Settings Macros Help
Quick connect... 1. Home 4. centos 6. centos 9. centos
[root@azuse 02]# ./test2 > test2.log
[root@azuse 02]# cat test2.log
1652238
1652238
[root@azuse 02]#
```

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