

Frequently Asked Questions

Question

@ > F 5 A A K 8 C ? @ 0 2 ; 5 = 8 5 8 < 8

Answer

@ > F 5 A A K

7 O B > [> B A N 4 0](#)

! ? 8 A > : ? @ > F 5 A A > 2 / @ 8 > @ 8 B 5 B ? @ > F 5 A A > 2 / Background/Foreground /

@ > 3 @ 0 < < 0 top / > < 0 = 4 0 kill

! ? 8 A > : ? @ > F 5 A A > 2 8 PID

0 6 4 0 O 7 0 ? C I 5 = 0 O ? @ > 3 @ 0 < < 0 2 > ? 5 @ 0 F 8 > > = K E A 8 A B 5 < 0 E

Unix (8 = 5 B > ; L : >), 8 < 5 5 B C = 8 : 0 ; L = K 9 = > < 5 @ , PID ? @ > F 5 A A 0 .

! ? 8 A > : 2 A 5 E 7 0 ? C I 5 = = K E ? @ > F 5 A A > 2 < > 6 = > ? > ; C G 8 B L

C B 8 ; 8 B > 9 ps.

ps -auxfw # > ; = K 9 A ? 8 A > : 2 A 5 E 7 0 ? C I 5 = K E ? @ > F 5 A A > 2

4 = 0 : > , 7 0 G 0 A B C N , F 5 ; 5 A > > 1 @ 0 7 = 5 9 8 A ? > ; L 7 > 2 0 B L M B C

: > < 0 = 4 C A 2 K 2 > 4 > < = 0 pgrep:

ps axww | grep cron

586 ?? ls 0:01.48 /usr/sbin/cron -s

ps axjf # A 5 ? @ > F 5 A A K 2 2 8 4 5 4 5 @ 5 2 0 (Linux)

ps aux | grep 'ss[h]' # 0 9 B 8 2 A 5 PID ? @ > F 5 A A 0 ssh, 8 A : ; N G 0 O PID ? @ > F 5 A A 0

grep

pgrep -l sshd # 0 9 B 8 PID ? @ > F 5 A A 0 ? > 8 < 5 = 8 (8 ; 8 ? > 5 3 > G 0 A B 8)

echo $$ # PID ? @ > F 5 A A 0 B 5 : C H 5 9 > 1 > ; > G : 8

fuser -va 22/tcp # ! ? 8 A > : ? @ > F 5 A A > 2 8 A ? > ; L 7 C N I 8 E ? > @ B 2 2 (Linux)

pmap PID # 0 @ B 0 ? 0 < O B 8 ? @ > F 5 A A > 2 (2 K O 2 ; 5 = 8 5 C B 5 G 5 :

? 0 < O B 8) (Linux)

fuser -va /home # ! ? 8 A > : ? @ > F 5 A A > 2 , 8 < 5 N I 8 E 4 > A B C ? 2 @ 0 7 4 5 ;

/home

strace df # B A ; 5 6 8 2 0 B L (Trace) A 8 A B 5 < = K 5 2 K 7 > 2 K 8 A 8 3 = 0 ; K

truss df # " > 6 5 G B > 8 2 K H 5 , = > = 0 FreeBSD/Solaris/Unixware

@ 8 > @ 8 B 5 B ? @ > F 5 A A 0

7 < 5 = 8 B L ? @ 8 > @ 8 B 5 B ? @ > F 5 A A 0 < > 6 = > : > < 0 = 4 > 9 renice.

B @ 8 F 0 B 5 ; L = > 5 7 = 0 G 5 = 8 5 , > 7 = 0 G 0 5 B 1 > ; 5 5 2 K A > : 8 9

? @ 8 > @ 8 B 5 B .

```
# renice -5 586          # > 2 K A 8 B L ? @ 8 > @ 8 B 5 B ? @ > F 5 A A 0 A PID 586
```

586: old priority 0, new priority -5

```
C ? > < > I L N nice < > 6 = > 7 0 ? C A : 0 B L ? @ > F 5 A A K A
> ? @ 5 4 5 ; 5 = = K < ? @ 8 > @ 8 B 5 B > < . ' B > - 1 K C 7 = 0 B L , 8 A ? > ; L 7 C 5 B 5
2 K , /usr/bin/nice 8 ; 8 nice 2 A B @ > 5 = = K 9 2 H 5 ; , , 8 A ? > ; L 7 C 9 B 5 which nice).
```

```
# nice -n -5 top          # > 2 K A 8 B L ? @ 8 > @ 8 B 5 B ? @ > F 5 A A 0 (/usr/bin/nice)
# nice -n 5 top           # > = 8 7 8 B L ? @ 8 > @ 8 B 5 B ? @ > F 5 A A 0 (/usr/bin/nice)
# nice +5 top             # nice A B @ > 5 = = K 9 2 H 5 ; , , ? > = 8 7 8 B L ? @ 8 > @ 8 B 5 B
? @ > F 5 A A 0
```

```
B > 2 @ 5 < O : 0 : nice > B 2 5 G 0 5 B 7 0 @ 0 A ? @ 5 4 5 ; 5 = 8 5
? @ > F 5 A A > @ = > 3 > 2 @ 5 < 5 = 8 , 4 @ C 3 0 O ? > ; 5 7 = 0 O : > < 0 = 4 0 ionice,
@ 0 A ? @ 5 4 5 ; O 5 B 4 8 A : > 2 K 9 I O . = 0 2 5 A L < 0 ? > ; 5 7 = 0 2 A ; C G 0 5
? @ 8 ; > 6 5 = 8 9 , 0 : B 8 2 = > 8 A ? > ; L 7 C N I 8 E 4 8 A : > 2 K 9 I O
( = 0 ? @ 8 < 5 @ : > < ? 8 ; 8 @ > 2 0 = 8 5 ) . K < > 6 5 B 5 C A B 0 = > 2 8 B L 4 ; O
? @ 8 ; > 6 5 = 8 O A > > B 2 5 B A B 2 C N I 8 9 ; ; 0 A A ( idle - best effort - real time),
7 0 3 ; O = 8 B 5 2 man, B 0 < 2 A 5 4 > 2 > ; L = > 4 > A B C ? = > @ 0 A A : 0 7 0 = > .
```

```
# ionice c3 -p123          # # A B 0 = > 2 8 B L ; ; 0 A A idle 4 ; O pid 123 ( B > ; L : > Linux)
# ionice -c2 -n0 firefox   # 0 ? C A B 8 B L $ 0 5 @ D > : A A 2 K A > : 8 <
? @ 8 > @ 8 B 5 B > < 8 ; ; 0 A A > < best effort
# ionice -c3 -p&#036;&#036;          # # A B 0 = > 2 8 B L 4 ; O B 5 : C I 5 9 > 1 > ; > G : 8
; ; 0 A A idla
```

```
> A ; 5 4 = O O : > < 0 = 4 0 > G 5 = L ? > ; 5 7 = 0 ? @ 8
: > < ? 8 ; 8 @ > 2 0 = 8 8 8 ; 8 > B ; 0 4 : 5 1 > ; L H 8 E ? @ > 5 : B > 2 . N 1 0 O
: > < 0 = 4 0 , 7 0 ? C I 5 = = 0 O 8 7 B 5 : C I 5 9 > 1 > ; > G : 8 1 C 4 5 B 8 < 5 B L
? > = 8 6 5 = = K 9 ? @ 8 > @ 8 B 5 B . 5 @ 5 < 5 = = 0 O &#036;&#036; , A > 4 5 @ 6 8 B PID
B 5 : C H 5 9 > 1 > ; > G : 8 ( ? > ? @ > 1 C 9 B 5 echo &#036;&#036;)
FreeBSD 8 A ? > ; L 7 C 5 B idprio/rtprio (0 = < 0 : A 8 < 0 ; L = K 9 ? @ 8 > @ 8 B 5 B , 31 =
= 0 8 1 > ; 5 5 A 2 > 1 > 4 = K 9 (most idle)):
```

```
# idprio 31 make          # > < ? 8 ; 8 @ > 2 0 B L A = 8 7 : 8 < ? @ 8 > @ 8 B 5 B > <
# idprio 31 -1234         # # A B 0 = > 2 8 B L = 8 7 : 8 9 ? @ 8 > @ 8 B 5 B 4 ; O PID 1234
# idprio -t -1234        # -t C 4 0 ; O 5 B real time/idle ? @ 8 > @ 8 B 5 B K
```

background/foreground

```
@ > F 5 A A K 7 0 ? C I 5 = = K 5 2 H 5 ; , , 5 , < > 6 = > ? 5 @ 5 ; ; N G 0 B L 2
D > = > 2 K 9 @ 5 6 8 < (background), ? @ 8 > A B 0 = 0 2 ; 8 2 0 B L , = 0 6 0 2 [Ctrl]-[Z], 8
2 K 2 > 4 8 B L > 1 @ 0 B = > 2 foreground, B 0 :- 6 5 < > 6 = > 8 A ? > ; L 7 > 2 0 B L
: > < 0 = 4 K bg and fg. > < 0 = 4 0 jobs, 2 K 2 5 4 5 B A ? 8 A > E 7 0 ? C I 5 = = K E 2
D > = > 2 > < @ 5 6 8 < 5 ? @ > F 5 A A > 2 .
```

```
# ping cb.vu > ping.log
```

```

^Z                #  ><0=40 ping ? @ 8>A B 0=>2;5=0 [Ctrl]-[Z]
# bg              #  B ? @ 0 2 8 B L 2 D>= 8 ? @>4>;60 B L 2 K ?>;=5=85
# jobs -l         #  ! ? 8 A>: D>=>2 K E ? @>F 5 A A>2
[1] - 36232 Running      ping cb.vu > ping.log
[2] + 36233 Suspended (tty output)    top
# fg %2            #  5 @ = C B L ? @>F 5 A A 2 2 >1 K G = K 9 @ 5 6 8 <

'B>-1 K ? @>F 5 A A ? @>4>;60; A 2>5 2 K ?>;=5=85 ?>A;5
70: @ K B 8 O >1>;>G:8, <>6=> 2>A ?>;L 7>20 B L A O :><0=4>9
nohup.

# nohup ping -i 60 > ping.log &

@>3 @ 0<<0 top

@>3 @ 0<<0 top ?>:07 K 205 B @ 01>B G 85 40==K5 ?>
70? C I 5==K< ? @>F 5 A A D<. "0:-65 >1 @ 0 B 8 B 5 2=8<0=85 =0
? @>3 @ 0<<C htop, M B> 1>;55 @ 0 A H 8 @ 5==0 O 25 @ A 8 O ? @>3 @ 0<<K,
@ 01>B 05 B =0 Linux 8 FreeBSD (/usr/ports/sysutils/htop). 'B>-1 K ?>;C G 8 B L A ? @ 02:C
?>;:;N G 0<, 2> 2 @ 5<O @ 01>B K top, =06<8 B 5 h. >B =5:>B> @ K 5
?>;57=K5 :;N G 8:

u[8<O ?>;L 7>20 B 5;O] >A<>B @ 5 B L ? @>F 5 A A K
? @ 8=04;560 I 85 :>=: @ 5 B=><C ?>;L 7>20 B 5;N.
A ?>;L 7 C 9 B 5+ 8;8 ? @>15; 4;O 2>72 @ 0 B 0 2 @ 568< ?>;=>3>
? @>A<>B @ 0.
k [pid] - #18 B L (7025 @ H 8 B L) ? @>F 5 A A A pid.
1- >:070 B L A B 0 B 8 A B 8:C ?> ? @>F 5 A A> @ C (B>;L:>Linux)
R- 5 @ 5:;N G 8 B L A> @ B 8 @>2:C

><0=40 kill

A B 0=>2:0 ? @>F 5 A A>2 8;8 >B ? @ 02:0 A 83=0;0 A ?><>I L N
:><0=4 kill 8;8 killall.

# ping -i 60 cb.vu > ping.log &
[1] 4712
# kill -s TERM 4712      # B>-65 G B> 8 kill -15 4712
# killall -1 httpd      # >B ? @ 0 2 8 B L A 83=0;HUP ? @>F 5 A A C A B>G=K<
8<5=5<
# pkill -9 http         # >B ? @ 0 2 8 B L A 83=0;TERM ? @>F 5 A A C A 8<5=5< 8;8
53> G 0 A B L N
# pkill -TERM -u www     # >B ? @ 0 2 8 B L A 83=0;TERM ? @>F 5 A A C
2 K ?>;=O N I 5<C A O >B 8<5=8 :>=: @ 5 B=>3> ?>;L 7>20 B 5;O
# fuser -k -TERM -m /home # C 18 B L ? @>F 5 A A K 8<5 N I 85 4>A B C ? : /home

081>;55 206=K5 A 83=0;K:

```

Vampyr`s House!

<https://415.spb.ru/ins/faq/faq.php?0.cat.59>

! B @ 0 = 8 F 0 4/4

1 HUP - ' 0 A B > 8 A ? > ; L 7 C 5 B A O 4 ; O ? 5 @ 5 G 8 B K 2 0 = 8 O
: > = D 8 3 C @ 0 F 8 > = = K E D 0 9 ; > 2
2 INT - @ 5 @ 2 0 B L (interrupt)
3 QUIT - K 9 B 8
9 KILL - 5 7 C A ; > 2 = > ? @ 8 1 8 B L ? @ > F 5 A A
15 TERM - O 3 : > 5 ? @ 5 @ K 2 0 = 8 5

Details

Info Wednesday 06 May 2015 - 18:00:09 by vampyr

Vampyr`s House!