liunx高阶命令

- 1. 面试官问你, Liunx系统变慢了, 怎么办
 - 1.1 查看整体机器性能
 - 1.2 低配版top命令
- 2. 其他高阶命令
- 1. 面试官问你,Liunx系统变慢了,怎么办
- 1.1 查看整体机器性能

- top命令查看整体机器性能
- 1.1cpu 和 MEM
- 1.2 cpus 按1查看单个 来回切换
- 1.3 id=idle 空闲率
- 1.4 time(运行时间) command(进程名如: redis,tomcat) pid 进程id
- 1.6 关闭命令: **不要强制 ctrl c qq**

```
top - 11:46:00 up 7 days, 17:53, 2 users, load average: 0.00, 0.01, 0.05
Tasks: 82 total, 1 running, 81 sleeping, 0 stopped,
                                                       0 zombie
%Cpu(s): 2.3 us, 2.7 sy, 0.0 ni, 95.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 1881620 total, 260928 free, 839460 used,
                                                     781232 buff/cache
KiB Swap:
               θ total,
                              θ free,
                                            0 used.
                                                    866696 avail Mem
                                             cpu 内存使用百分比
 PID USER
              PR NI
                       VIRT
                               RES
                                     SHR S %CPU %MEM
                                                        TIME+ COMMAND
 2962 root
              20
                  0 161972
                              2152
                                     1564 R 0.7 0.1
                                                      0:00.02 top
                   0 157916
                                     4664 S 0.3 0.3
 842 root
              20
                              6384
                                                      0:00.39 sshd
              20 0 125452
                                     1460 S 0.0 0.2
   1 root
                              2868
                                                      0:57.95 systemd
   2 root
              20
                   0
                          0
                                 0
                                       0 S 0.0 0.0
                                                      0:00.00 kthreadd
              0 -20
                          0
                                 0
                                       0 S 0.0 0.0
                                                      0:00.00 kworker/0:0H
   4 root
                          0
                                 0
                                       0 S 0.0 0.0 0:05.82 kworker/u2:0
   5 root
              20
                   0
```

```
top - 09:46:07 up 14 min,
                          2 users, load average: 0.00, 0.02, 0.05
                                                                       默认为cpu(s) 按
                   1 running, 196 sleeping,
                                            O stopped.
Tasks: 197 total.
                                                          O zombie
                                                                       键盘1查看每个
%Cpu0
         0.0 us,
                  0.0 sy, 0.0 ni, 100.0 id, 0.0 wa,
                                                     0.0 hi,
                                                              0.0 si.
                                                                       o cpu使用情况
%Cpu1
         0.3 us,
                  0.0 sy,
                           0.0 ni, 99.7 id,
                                            0.0 wa,
                                                     0.0 hi,
                                                              0.0 si,
%Cpu2
         0.0 us,
                  0.0 sy,
                           0.0 ni, 100.0 id,
                                            0.0 wa,
                                                     0.0 hi,
                                                              0.0 si,
                                                                       0.0 st
‰Сри3
         0.0 us,
                  0.0 sy,
                          O. O ni, 100. O id,
                                            0.0 wa.
                                                     0.0 hi.
                                                              0.0 si.
                                                                       0.0 st
%Cpu4
         0.7 us,
                  0.0 sy, 0.0 ni, 99.3 id,
                                            0.0 wa,
                                                     0.0 hi,
                                                              0.0 si,
                                                                       0.0 st
%Cpu5 :
         0.3 us,
                  0.0 sy, 0.0 ni, 99.7 id,
                                            0.0 wa,
                                                     0.0 hi,
                                                              0.0 si,
                                                                       0.0 st
%Cpu6 : 0.0 us, 0.0 sy, 0.0 ni, 100.0 id,
                                            0.0 wa,
                                                     0.0 hi,
                                                              0.0 si,
                                                                       0.0 st
%Cpu7 : [ 0.0 us,
                  0.0 sy, 0.0 ni, 100.0 id,
                                            0. 0 wa,
                                                              0.0 si,
                                                     0.0 hi,
KiB Mem : 7994076 total, 6465972 free, 881112 used,
                                                        646992 buff/cache
KiB Swap: 2097148 total, 2097148 free,
                                              0 used.
                                                       6802144 avail Mem
```

```
top - 11:54:06 up 7 days, 18:01, 2 users, load average: 0.11, 0.06, 0.06
Tasks: 82 total, 2 running, 80 sleeping, \theta stopped, \theta zombie
%Cpu0 : 1.7 us, 2.0 sy, 0.0 ni 96.3 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 1881620 total, 259032 free, 839464 used,
                                                 783124 buff/cache
                           θ free, ● 看id,俗称空闲率,值越太越好,cpu不会引起
KiB Swap:
              θ total,
                           RES SHR S %CPU %MEM
                                                   TIME+ COMMAND
 PID USER
             PR NI
                     VIRT
28221 root
             1 root
             20 0 125452
                            2868
                                  1460 S 0.0 0.2
                                                 0:58.00 systemd
                        0
                              0
                                    0 S 0.0 0.0 0:00.00 kthreadd
   2 root
             20 0
   4 root
             0 -20
                        0
                              0
                                    0 S 0.0 0.0 0:00.00 kworker/0:0H
                        0
                                    0 S 0.0 0.0 0:05.83 kworker/u2:0
   5 root
             20 0
                              0
             20 0
                    0
                                    0 S 0.0 0.0 0:04.92 ksoftirgd/0
   6 root
                              0
                                                  TIME+ COMMAND
                                  SHR S %CPU %MEM
 PID USER
             PR NI
                     VIRT
                            RES
                                                 0:58.02 systemd
    root
             20 0 125452
                           2868
                                 1460 S 0.0 0.2
                       0
                              0
                                    0 S 0.0 0.0
                                                 0:00.00 kthreadd
             20 0
    root
            0 -20
                        0
                              0
                                    0 S 0.0 0.0
                                                 0:00.00 kworker/0:0H
   4
    root
   5
             20
                0
                        0
                              0
                                    0 S 0.0 0.0
                                                 0:05.83 kworker/u2:0
    root
             20 0
                        0
                                    0 S 0.0 0.0
                                                 0:04.94 ksoftirgd/0
    root
                              0
                                    0 S 0.0 0.0
                                                 0:00.00 migration/0
                              0
    root
             rt 0
                       0
top - 11:44:15 up 7 days, 17:52, 2 users, load average: 0.00, 0.01, 0.05
Tasks: 82 total, 1 running, 81 sleeping, θ stopped, θ zombie
top - 12:04:13 up 7 days, 18:12, 2 users, load average: 0.38, 0.12, 0.07
Tasks: 84 total, 1 running, 83 sleeping, 0 stopped, 0 zombie
%Cpu0 : 1.7 us, 2.3 sy, 0.0 ni, 96.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 1881620 total, 256120 free, 840016 used, 785484 buff/cache
KiB Swap: 0 total, 0 free,
                                          θ used. 866140 avail Mem
```

1.2 低配版top命令

2.1 uptime 查看load average

```
[root@ecs-340489 ~]# uptime
12:05:47 up 7 days, 18:13, 2 users,
[root@ecs-340489 ~]# [
```

2.2 **查看内存** free -g(-----G为单位,四舍五入了) (free--->字节为单位) free -m(---->mb为单位)

一般用free -m

[root@ecs-340489 ~]# free									
	total		used		free	shared	buff/cache	available	
Mem:	1881620		839868		253788	16976	787964	866292	
Swap:	0		0		0				
[root@ecs-3 <mark>1</mark> 0489 ~]# free -g									
	total		used		free	shared	buff/cache	available	
Mem:	1		0		0	0	0	0	
Swap:	0		0		0				
[root@ecs-3 <mark>10489 ~]#</mark> fre <mark>e -m</mark>									
	total		used		free	shared	buff/cache	available	
Mem:	1837		819		248	16	769	846	
Swap:	0		0		0				
[root@ecs-340489 ~]#									

2.3 **查看硬盘剩余空间数** df(dfree) -h

```
[root@ecs-340489 ~]# df -h
             容量 已用 可用 已用% 挂载点
文件系统
                            0% /dev
devtmpfs
             909M
                  0 909M
                   0 919M 0%/dev/shm
tmpfs
             919M
                 17M 903M 2% / run
tmpfs
             919M
                 0 919M
                           0% /sys/fs/cgroup
tmpfs
             919M
/dev/vda1
             40G 5.9G 32G
                           16% /
                 0 184M 0% /run/user/0
tmpfs
             184M
[root@ecs-340489 ~1# ]
```

2.4 cpu 包含而不限于(内存,cpu)**vmstat -n 2 3**(2--->代表每秒刷一次)(3---->代表共刷几次)



2. 其他高阶命令

- 3.1 chmod 其他命令文件授权命令
- 3.2 ip addr or ifconfig
- 3.3 防火墙命令