

# Command(s) of the day

March 13, 2009 / Gavin Jackson

linux

performance testing

programming

sysadmin

unix

We were busy yesterday looking into some performance issues with our mail server - I was lucky enough to learn some new Linux commands (these all work on Ubuntu Intrepid, however iotop does not work on RHEL 5.2). iotop - allows you to see which processes are performing the most reads and writes to disk.

```

Terminal
File Edit View Terminal Tabs Help
Total DISK READ: 0 B/s | Total DISK WRITE: 0 B/s
PID USER      DISK READ  DISK WRITE  SWAPIN   IO>    COMMAND
1 root        0 B/s      0 B/s      0.00 %  0.00 %  init
2 root        0 B/s      0 B/s      0.00 %  0.00 %  [kthread]
3 root        0 B/s      0 B/s      0.00 %  0.00 %  [migration/0]
4 root        0 B/s      0 B/s      0.00 %  0.00 %  [ksoftirqd/0]
5 root        0 B/s      0 B/s      0.00 %  0.00 %  [watchdog/0]
6 root        0 B/s      0 B/s      0.00 %  0.00 %  [migration/1]
7 root        0 B/s      0 B/s      0.00 %  0.00 %  [ksoftirqd/1]
8 root        0 B/s      0 B/s      0.00 %  0.00 %  [watchdog/1]
9 root        0 B/s      0 B/s      0.00 %  0.00 %  [events/0]
10 root       0 B/s      0 B/s      0.00 %  0.00 %  [events/1]
11 root       0 B/s      0 B/s      0.00 %  0.00 %  [khelper]
7184 gavinj    0 B/s      0 B/s      0.00 %  0.00 %  firefox
5464 root       0 B/s      0 B/s      0.00 %  0.00 %  console-kit-daemon
7186 gavinj    0 B/s      0 B/s      0.00 %  0.00 %  firefox
5651 root       0 B/s      0 B/s      0.00 %  0.00 %  [krfcomd]
6165 root       0 B/s      0 B/s      0.00 %  0.00 %  console-kit-daemon
7195 gavinj    0 B/s      0 B/s      0.00 %  0.00 %  firefox
7196 gavinj    0 B/s      0 B/s      0.00 %  0.00 %  firefox
5149 root       0 B/s      0 B/s      0.00 %  0.00 %  sshd
6174 gavinj    0 B/s      0 B/s      0.00 %  0.00 %  x-session-manager
6235 gavinj    0 B/s      0 B/s      0.00 %  0.00 %  pulseaudio -D --log-targe
5678 root       0 B/s      0 B/s      0.00 %  0.00 %  NetworkManager
  
```

iptraf - allows you to see (in real time) who is talking to your box (sort of a lightweight ncurses version of ethereal).

```

root@corona:~
File Edit View Terminal Tabs Help
IPtraf
172.16.8.10:22 > 2140 473300 -PA- eth0
172.16.4.16:41958 > 2140 111572 --A- eth0
172.16.8.10:443 > 1 40 --A- eth0
172.16.4.4:58039 = 0 0 ---- eth0
172.16.4.4:58002 = 0 1453 --A- eth0
172.16.8.10:443 = 9 952 CLOSED eth0
127.0.0.1:7306 > 44 18124 -PA- lo
127.0.0.1:45310 > 52 4194 --A- lo
127.0.0.1:55632 > 1 52 --A- lo
127.0.0.1:7071 = 0 0 ---- lo
127.0.0.1:7306 > 966 167582 -PA- lo
127.0.0.1:43668 > 1026 94882 --A- lo
127.0.0.1:3310 > 1 52 --A- lo
127.0.0.1:55886 = 0 0 ---- lo
172.16.8.10:443 = 9 952 CLOSED eth0
TCP dest unrch (port) (101 bytes) from 172.16.8.10 to 172.16.4.9 on eth0
UDP [138 bytes] from 172.16.4.9:53 to 172.16.8.18:28696 on eth0
UDP [124 bytes] from 172.16.4.9:53 to 172.16.8.18:28696 on eth0
UDP [123 bytes] from 172.16.4.9:53 to 172.16.8.18:28696 on eth0
UDP [68 bytes] from 172.16.8.18:52581 to 172.16.4.9:53 on eth0
UDP [84 bytes] from 172.16.4.9:53 to 172.16.8.18:52581 on eth0
UDP [73 bytes] from 172.16.4.9:53 to 172.16.8.18:28696 on eth0
TCP flow rate: 79.48 Kbytes/s
Pkts captured (all interfaces): 11100
Up/Dn/PgUp/PgDn-scroll M-more TCP info W-chg actv win S-sort TCP X-exit
  
```

dstat - combines iostat, vmstat and ifstat into a sweet package that gives you a good idea of cpu, disk io and network traffic volumes on your hosts (colour coded so you can pick up trends).

```
gavinj@corona:~
File Edit View Terminal Tabs Help
----total-cpu-usage---- -dsk/total- -net/total- ---paging-- ---system--
usr sys idl wai hiq sig read writ rcv send in out int csw
7 2 89 2 0 0 443k 162k 0 0 0 0 408 915
1 0 99 0 0 0 0 0 0 0 0 0 241 396
0 0 100 0 0 0 0 192k 0 0 0 0 316 637
1 0 99 0 0 0 0 0 0 0 0 0 242 448
1 0 98 0 0 0 0 0 0 0 0 0 244 433
1 0 99 0 0 0 0 0 0 0 0 0 229 357
4 1 95 0 0 0 0 0 0 0 0 0 351 851
1 1 98 0 0 0 0 0 608 0 0 0 324 1125
12 3 85 0 0 0 0 0 0 0 0 0 791 3507
1 0 98 0 0 0 0 0 0 0 0 0 316 1353
3 0 97 0 0 0 0 0 0 0 0 0 433 1815
14 2 85 0 0 0 0 0 0 0 0 0 670 3111
8 1 91 0 0 0 0 0 0 0 0 0 424 1336
2 0 95 2 0 0 64k 0 0 0 0 0 267 402
0 0 99 0 0 0 0 0 0 0 0 0 241 489
1 0 99 0 0 0 0 0 0 0 0 0 229 426
4 1 95 0 0 0 0 0 0 0 0 0 461 1651
1 0 96 3 0 0 0 480k 0 0 0 0 373 1284
3 1 95 0 0 0 0 0 2438 0 0 0 317 593
2 0 98 0 0 0 0 0 0 0 0 0 287 564
0 0 99 0 0 0 0 0 0 0 0 0 273 441
1 0 99 0 0 0 0 0 0 0 0 0 212 377
1 0 99 0 0 0 0 0 0 0 0 0 247 410
3 0 97 0 0 0 0 0 0 0 0 0 221 364
6 0 94 0 0 0 0 0 0 0 0 0 306 592
3 0 97 0 0 0 0 0 608 0 0 0 239 339
3 0 96 0 0 0 0 0 1808 0 0 0 267 392
```

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