/etc/cron.d/sysstat

# Run system activity accounting tool every 10 minutes

\*/2 \* \* \* \* root /usr/lib64/sa/sa1 1 1

# 0 \* \* \* \* root /usr/lib64/sa/sa1 600 6 &

# Generate a daily summary of process accounting at 23:53

5 55 \* \* \* root /usr/lib64/sa/sa2 -A

\*/2 \* \* \* \* root command -v sa1 > /dev/null && sa1 1 1

59 23 \* \* \* root command -v sa1 > /dev/null && sa1 60 2

Restarted sysstat

[root@LinuxServer-Class etc]# systemctl status sysstat

● sysstat.service - Resets System Activity Logs

Loaded: loaded (/usr/lib/systemd/system/sysstat.service; enabled; vendor preset: enabled)

Active: active (exited) since Fri 2018-03-16 10:16:15 PDT; 1min 32s ago

Process: 2222 ExecStart=/usr/lib64/sa/sa1 --boot (code=exited, status=0/SUCCESS)

Main PID: 2222 (code=exited, status=0/SUCCESS)

Mar 16 10:16:15 LinuxServer-Class systemd[1]: Stopping Resets System Activit....

Mar 16 10:16:15 LinuxServer-Class systemd[1]: Starting Resets System Activit....

Mar 16 10:16:15 LinuxServer-Class systemd[1]: Started Resets System Activity....

Hint: Some lines were ellipsized, use -l to show in full.

CPU usage

07:50:01 AM CPU %user %nice %system %iowait %steal %idle

08:00:01 AM all 0.03 0.00 0.23 0.16 0.00 99.57

08:10:02 AM all 0.04 0.01 0.29 0.13 0.00 99.53

08:20:01 AM all 1.67 0.00 8.00 0.50 0.00 89.83

The output from cpubusy.py

[root@LinuxServer-Class greynolds]# ./cpubusy.py

I did 2000000 sines in 0.35 seconds.

I did 2000000 sines in 0.33 seconds.

I did 2000000 sines in 0.33 seconds.

I did 2000000 sines in 0.33 seconds.

I did 2000000 sines in 0.34 seconds.

I did 2000000 sines in 0.34 seconds.

I did 2000000 sines in 0.34 seconds.

I did 2000000 sines in 0.34 seconds.

Sar –u 1 3

[root@LinuxServer-Class greynolds]# sar -u 1 3

Linux 3.10.0-693.21.1.el7.x86\_64 (LinuxServer-Class) 03/16/2018 \_x86\_64\_(2 CPU)

10:24:27 AM CPU %user %nice %system %iowait %steal %idle

10:24:28 AM all 0.00 0.00 0.50 0.00 0.00 99.50

10:24:29 AM all 0.00 0.00 0.00 0.00 0.00 100.00

10:24:30 AM all 0.00 0.00 0.00 0.00 0.00 100.00

Average: all 0.00 0.00 0.17 0.00 0.00 99.83

[root@LinuxServer-Class greynolds]# sar -P ALL 1 1

Linux 3.10.0-693.21.1.el7.x86\_64 (LinuxServer-Class) 03/16/2018 \_x86\_64\_(2 CPU)

10:25:42 AM CPU %user %nice %system %iowait %steal %idle

10:25:43 AM all 0.00 0.00 0.50 0.00 0.00 99.50

10:25:43 AM 0 0.00 0.00 0.00 0.00 0.00 100.00

10:25:43 AM 1 0.00 0.00 0.00 0.00 0.00 100.00

Average: CPU %user %nice %system %iowait %steal %idle

Average: all 0.00 0.00 0.50 0.00 0.00 99.50

Average: 0 0.00 0.00 0.00 0.00 0.00 100.00

Average: 1 0.00 0.00 0.00 0.00 0.00 100.00

[root@LinuxServer-Class greynolds]#

[root@LinuxServer-Class greynolds]# sar -P 1 1 1

Linux 3.10.0-693.21.1.el7.x86\_64 (LinuxServer-Class) 03/16/2018 \_x86\_64\_(2 CPU)

10:26:16 AM CPU %user %nice %system %iowait %steal %idle

10:26:17 AM 1 0.00 0.00 0.00 0.00 0.00 100.00

Average: 1 0.00 0.00 0.00 0.00 0.00 100.00

[root@LinuxServer-Class greynolds]#

[root@LinuxServer-Class greynolds]# sar -r 1 3

Linux 3.10.0-693.21.1.el7.x86\_64 (LinuxServer-Class) 03/16/2018 \_x86\_64\_(2 CPU)

10:26:55 AM kbmemfree kbmemused %memused kbbuffers kbcached kbcommit %commit kbactive kbinact kbdirty

10:26:56 AM 1164816 701140 37.58 2116 402784 353860 9.04 338124 153732 0

10:26:57 AM 1164816 701140 37.58 2116 402784 353860 9.04 338132 153732 0

10:26:58 AM 1164816 701140 37.58 2116 402784 353860 9.04 338136 153732 0

Average: 1164816 701140 37.58 2116 402784 353860 9.04 338131 153732 0

[root@LinuxServer-Class greynolds]#

Swap usage

[root@LinuxServer-Class greynolds]# sar -S 1 3

Linux 3.10.0-693.21.1.el7.x86\_64 (LinuxServer-Class) 03/16/2018 \_x86\_64\_(2 CPU)

10:27:30 AM kbswpfree kbswpused %swpused kbswpcad %swpcad

10:27:31 AM 2047996 0 0.00 0 0.00

10:27:32 AM 2047996 0 0.00 0 0.00

10:27:33 AM 2047996 0 0.00 0 0.00

Average: 2047996 0 0.00 0 0.00

[root@LinuxServer-Class greynolds]#

[root@LinuxServer-Class greynolds]# sar -b 1 3

Linux 3.10.0-693.21.1.el7.x86\_64 (LinuxServer-Class) 03/16/2018 \_x86\_64\_(2 CPU)

10:28:20 AM tps rtps wtps bread/s bwrtn/s

10:28:21 AM 1.00 0.00 1.00 0.00 12.00

10:28:22 AM 0.00 0.00 0.00 0.00 0.00

10:28:23 AM 0.00 0.00 0.00 0.00 0.00

Average: 0.33 0.00 0.33 0.00 4.00

[root@LinuxServer-Class greynolds]#

Individual block

[root@LinuxServer-Class greynolds]# sar -d 1 1

Linux 3.10.0-693.21.1.el7.x86\_64 (LinuxServer-Class) 03/16/2018 \_x86\_64\_(2 CPU)

10:29:04 AM DEV tps rd\_sec/s wr\_sec/s avgrq-sz avgqu-sz await svctm %util

10:29:05 AM dev8-0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

10:29:05 AM dev253-0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

10:29:05 AM dev253-1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Average: DEV tps rd\_sec/s wr\_sec/s avgrq-sz avgqu-sz await svctm %util

Average: dev8-0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Average: dev253-0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Average: dev253-1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Search for a block device name 53 as a major number and a 1 as a minor number.

[root@LinuxServer-Class greynolds]# sar -p -d 1 1

Linux 3.10.0-693.21.1.el7.x86\_64 (LinuxServer-Class) 03/16/2018 \_x86\_64\_(2 CPU)

10:30:12 AM DEV tps rd\_sec/s wr\_sec/s avgrq-sz avgqu-sz await svctm %util

10:30:13 AM sda 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

10:30:13 AM centos-swap 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

10:30:13 AM centos-root 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Average: DEV tps rd\_sec/s wr\_sec/s avgrq-sz avgqu-sz await svctm %util

Average: sda 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Average: centos-swap 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Average: centos-root 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

[root@LinuxServer-Class greynolds]#

Displaying context switch per second

[root@LinuxServer-Class greynolds]# sar -w 1 3

Linux 3.10.0-693.21.1.el7.x86\_64 (LinuxServer-Class) 03/16/2018 \_x86\_64\_(2 CPU)

10:34:57 AM proc/s cswch/s

10:34:58 AM 0.00 74.00

10:34:59 AM 0.00 73.00

10:35:00 AM 0.00 66.34

Average: 0.00 71.10

[root@LinuxServer-Class greynolds]#

Running a queue and local average

[root@LinuxServer-Class greynolds]# sar -q 1 3

Linux 3.10.0-693.21.1.el7.x86\_64 (LinuxServer-Class) 03/16/2018 \_x86\_64\_(2 CPU)

10:39:26 AM runq-sz plist-sz ldavg-1 ldavg-5 ldavg-15 blocked

10:39:27 AM 1 162 0.00 0.01 0.05 0

10:39:28 AM 0 162 0.00 0.01 0.05 0

10:39:29 AM 0 162 0.00 0.01 0.05 0

Average: 0 162 0.00 0.01 0.05 0

[root@LinuxServer-Class greynolds]# sar -n SOCK

Linux 3.10.0-693.21.1.el7.x86\_64 (localhost.localdomain) 03/16/2018 \_x86\_64\_ (2 CPU)

07:49:32 AM LINUX RESTART

07:50:01 AM totsck tcpsck udpsck rawsck ip-frag tcp-tw

08:00:01 AM 630 8 12 0 0 0

08:10:02 AM 632 8 12 0 0 0

08:20:01 AM 643 8 12 0 0 0

08:30:01 AM 632 8 12 0 0 0

08:40:01 AM 643 8 12 0 0 0

08:50:01 AM 643 8 12 0 0 0

Average: 637 8 12 0 0 0

[root@LinuxServer-Class sa]# sar -q -f /var/log/sa/sa12 -s 10:00:01

Linux 3.10.0-123.el7.x86\_64 (localhost.localdomain) 03/12/2018 \_x86\_64\_(2 CPU)

10:31:39 AM LINUX RESTART

10:40:01 AM runq-sz plist-sz ldavg-1 ldavg-5 ldavg-15 blocked

10:50:02 AM 0 145 0.00 0.01 0.05 0

Average: 0 145 0.00 0.01 0.05 0

10:51:37 AM LINUX RESTART

11:00:01 AM runq-sz plist-sz ldavg-1 ldavg-5 ldavg-15 blocked

11:10:01 AM 0 152 0.04 0.05 0.05 0

11:20:01 AM 0 158 0.00 0.01 0.05 0

11:30:01 AM 2 162 0.66 0.21 0.11 0

11:40:01 AM 0 161 0.00 0.05 0.09 0

11:50:01 AM 0 162 0.00 0.01 0.05 0

12:00:01 PM 0 162 0.00 0.01 0.05 0

12:10:01 PM 0 165 0.00 0.01 0.05 0

12:20:01 PM 0 170 0.06 0.03 0.05 0

12:30:01 PM 0 167 0.00 0.01 0.05 0

Average: 0 162 0.08 0.04 0.06 0

[root@LinuxServer-Class sa]# sar -q -f /var/log/sa/sa12 -s 10:00:01 | head -n 10

Linux 3.10.0-123.el7.x86\_64 (localhost.localdomain) 03/12/2018 \_x86\_64\_(2 CPU)

10:31:39 AM LINUX RESTART

10:40:01 AM runq-sz plist-sz ldavg-1 ldavg-5 ldavg-15 blocked

10:50:02 AM 0 145 0.00 0.01 0.05 0

Average: 0 145 0.00 0.01 0.05 0

10:51:37 AM LINUX RESTART

Reference material

https://www.thegeekstuff.com/2011/03/sar-examples/?utm\_source=feedburner