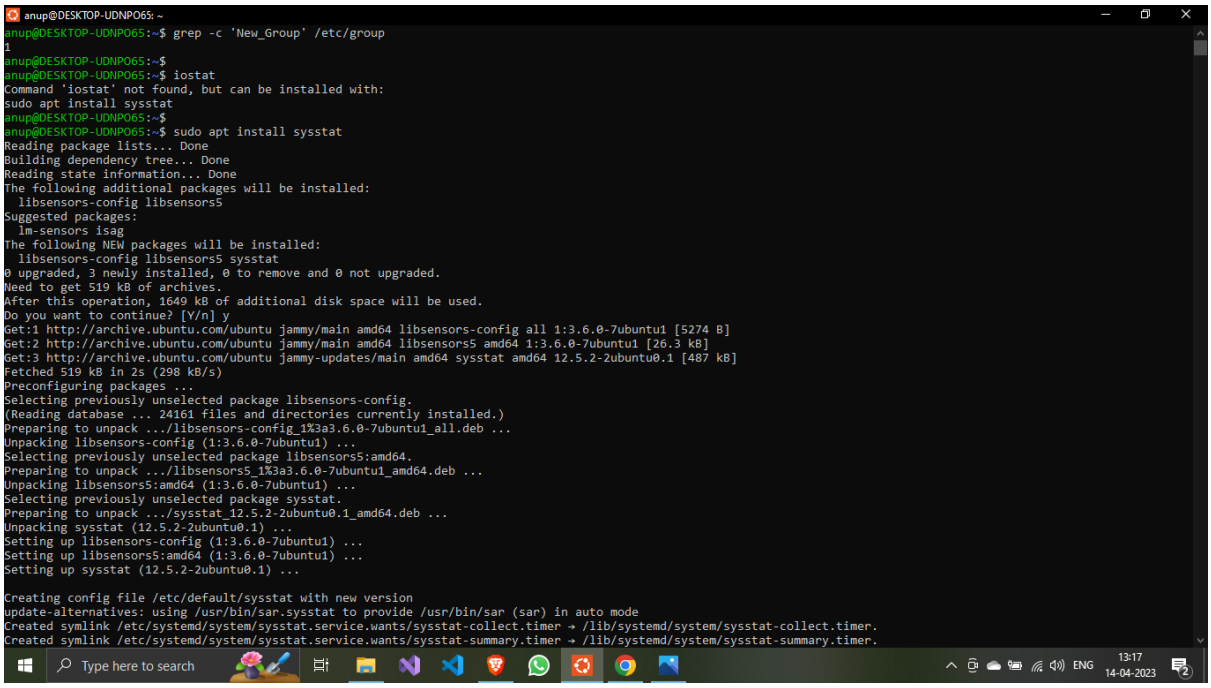
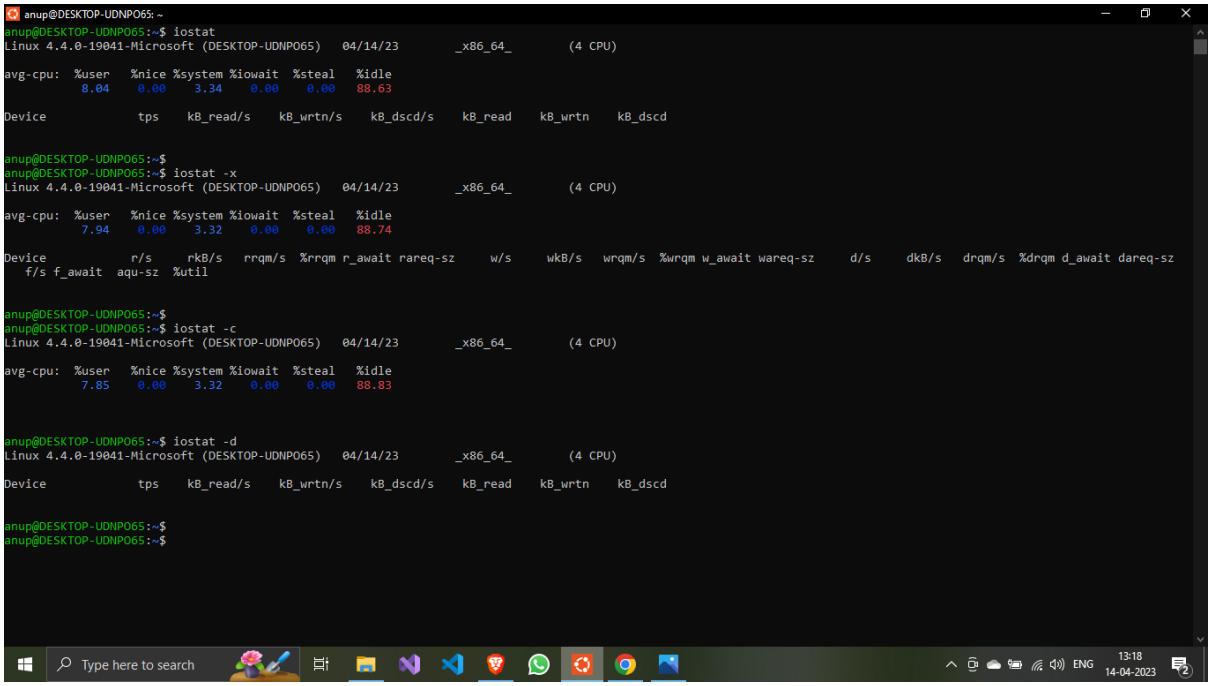
Name – Anup Kore

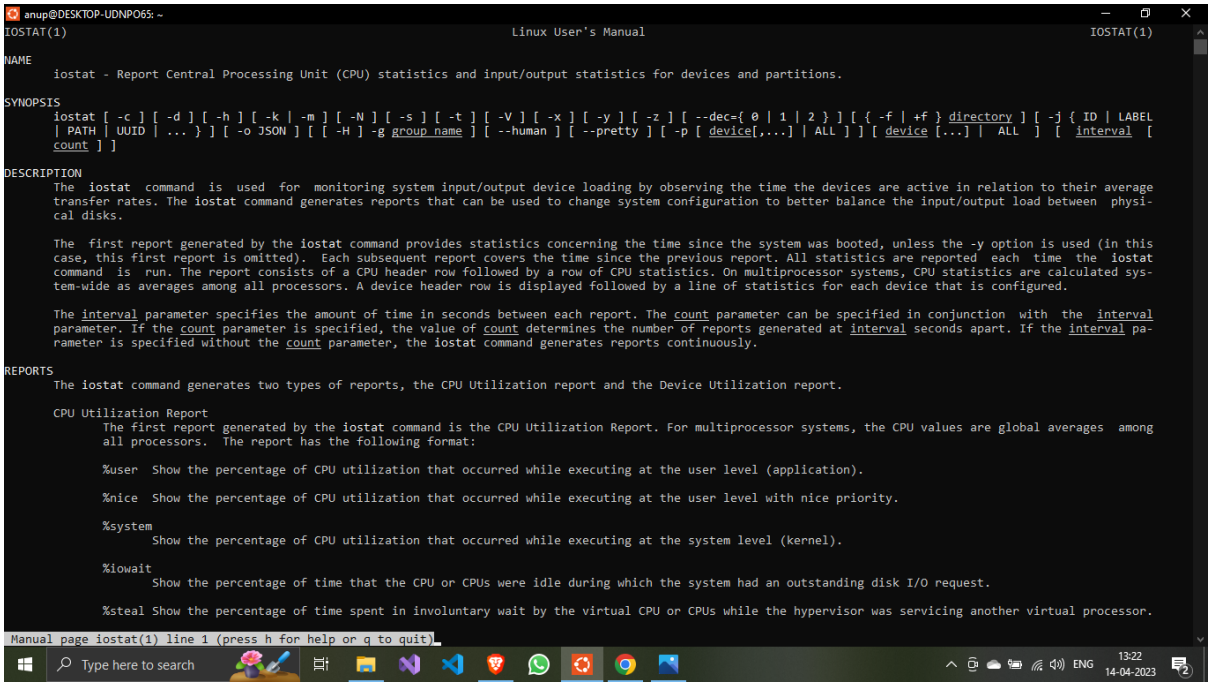
Topic – iostat commands

Date – 14-04-2023






anup@DESKTOP-UDNPO65: ~
anup@DESKTOP-UDNPO65:~$
anup@DESKTOP-UDNPO65:~$ iostat -xd
Linux 4.4.0-19041-Microsoft (DESKTOP-UDNPO65) 04/14/23 _x86_64_ (4 CPU)
Device r/s rkB/s rrqm/s %rrqm r_await rareq-sz w/s wkB/s wrqm/s %wrqm w_await wareq-sz d/s dkB/s drqm/s %drqm d_await dareq-sz
f/s f_await aqu-sz %util
anup@DESKTOP-UDNPO65:~$
anup@DESKTOP-UDNPO65:~$ iostat -k
Linux 4.4.0-19041-Microsoft (DESKTOP-UDNPO65) 04/14/23 _x86_64_ (4 CPU)
avg-cpu: %user %nice %system %iowait %steal %idle
7.69 0.00 3.35 0.00 0.00 88.97
Device tps kB_read/s kB_wrtn/s kB_dscd/s kB_read kB_wrtn kB_dscd
anup@DESKTOP-UDNPO65:~$
anup@DESKTOP-UDNPO65:~$ iostat -p
Linux 4.4.0-19041-Microsoft (DESKTOP-UDNPO65) 04/14/23 _x86_64_ (4 CPU)
avg-cpu: %user %nice %system %iowait %steal %idle
7.61 0.00 3.33 0.00 0.00 89.05
Device tps kB_read/s kB_wrtn/s kB_dscd/s kB_read kB_wrtn kB_dscd
anup@DESKTOP-UDNPO65:~$
anup@DESKTOP-UDNPO65:~$ iostat -N
Linux 4.4.0-19041-Microsoft (DESKTOP-UDNPO65) 04/14/23 _x86_64_ (4 CPU)
avg-cpu: %user %nice %system %iowait %steal %idle
7.60 0.00 3.33 0.00 0.00 89.07
Device tps kB_read/s kB_wrtn/s kB_dscd/s kB_read kB_wrtn kB_dscd
anup@DESKTOP-UDNPO65:~$
Type here to search
ENG
13:21
14-04-2023


anup@DESKTOP-UDNPO65: ~
IOSTAT(1) Linux User's Manual IOSTAT(1)
NAME
iostat - Report Central Processing Unit (CPU) statistics and input/output statistics for devices and partitions.
SYNOPSIS
iostat [-c] [-d] [-h] [-k | -m] [-N] [-s] [-t] [-V] [-x] [-y] [-z] [--dec={ 0 | 1 | 2 }] [{ -f | +f } directory] [-j { ID | LABEL | PATH | UUID | ... }] [-o JSON] [[-H] -g group_name] [--human] [--pretty] [-p [device[,...] | ALL]] [device [...] | ALL] [interval [count]]
DESCRIPTION
The iostat command is used for monitoring system input/output device loading by observing the time the devices are active in relation to their average transfer rates. The iostat command generates reports that can be used to change system configuration to better balance the input/output load between physical disks.
The first report generated by the iostat command provides statistics concerning the time since the system was booted, unless the -y option is used (in this case, this first report is omitted). Each subsequent report covers the time since the previous report. All statistics are reported each time the iostat command is run. The report consists of a CPU header row followed by a row of CPU statistics. On multiprocessor systems, CPU statistics are calculated system-wide as averages among all processors. A device header row is displayed followed by a line of statistics for each device that is configured.
The interval parameter specifies the amount of time in seconds between each report. The count parameter can be specified in conjunction with the interval parameter. If the count parameter is specified, the value of count determines the number of reports generated at interval seconds apart. If the interval parameter is specified without the count parameter, the iostat command generates reports continuously.
REPORTS
The iostat command generates two types of reports, the CPU Utilization report and the Device Utilization report.
CPU Utilization Report
The first report generated by the iostat command is the CPU Utilization Report. For multiprocessor systems, the CPU values are global averages among all processors. The report has the following format:
%user Show the percentage of CPU utilization that occurred while executing at the user level (application).
%nice Show the percentage of CPU utilization that occurred while executing at the user level with nice priority.
%system
Show the percentage of CPU utilization that occurred while executing at the system level (kernel).
%iowait
Show the percentage of time that the CPU or CPUs were idle during which the system had an outstanding disk I/O request.
%steal Show the percentage of time spent in involuntary wait by the virtual CPU or CPUs while the hypervisor was servicing another virtual processor.
Manual page iostat(1) line 1 (press h for help or q to quit)
Type here to search
ENG
13:22
14-04-2023