1 CheatSheet: Linux Disk

LINUX

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- PDF Link: cheatsheet-disk-A4.pdf, Category: linux
- Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-disk-A4
- Related posts: CheatSheet: Linux Process, CheatSheet: Linux Networking, #denny-cheatsheets

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1.1 Summary

Name	Comment
df	Show information about the file system.
du	Summarize disk usage of each FILE, recursively for directories.
$\mathrm{d}\mathrm{d}$	Copy a file, converting and formatting according to the operands.
mount	Mount file systems.
lsblk	List information about all available or the specified block devices.
Reference	CheatSheet: Linux Process, CheatSheet: Linux Networking, CheatSheet: Linux Disk

1.2 du

Name	Comment
Show the disk usage of current folder	du -sh
Show disk usage for a given folder	du -h -d 2 /data/elasticsearch/
Sort directories/files by size	GitHub: sort-disk-size.sh

1.3 df

Name	Comment
List all disks with humanreadable format	df -h

1.4 dd

Name	Comment
Create a file with fixed size and random context	m dd~if=/dev/urandom~of=/tmp/random.txt~count=3~bs=256
Create a file with fixed size and empty context	dd if=/dev/zero of=/tmp/random.txt count=3 bs=256

1.5 mount

Name	Comment
Mount an ISO to a folder	mount -o loop my-disk.iso /mnt/disk
Mount NFS	<pre>mount -t nfs 192.168.1.1:/usr/share /mnt/share</pre>
Remount rootfs as read-write in repair mode	mount -o remount rw /

1.6 lsblk

Name	Comment
List all available block devices	lsblk
List all scsi devices	lsblkscsi
Show a specific device	lsblk /dev/sda
List block devices with filesystem info	lsblkfs

1.7 Online Help Usage

```
> du --help
```

Usage: du [OPTION]... [FILE]...

or: du [OPTION]... --filesO-from=F

Summarize disk usage of each FILE, recursively for directories.

Mandatory arguments to long options are mandatory for short options too.
-0, --null end each output line with 0 byte rather than newline

```
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                        write counts for all files, not just directories
  -a, --all
                        print apparent sizes, rather than disk usage; although
      --apparent-size
                          the apparent size is usually smaller, it may be
                          larger due to holes in ('sparse') files, internal
                          fragmentation, indirect blocks, and the like
  -B, --block-size=SIZE scale sizes by SIZE before printing them; e.g.,
                           '-BM' prints sizes in units of 1,048,576 bytes;
                           see SIZE format below
  -b, --bytes
                        equivalent to '--apparent-size --block-size=1'
  -c, --total
                        produce a grand total
  -D, --dereference-args
                         dereference only symlinks that are listed on the
                          command line
                        print the total for a directory (or file, with --all)
  -d, --max-depth=N
                          only if it is N or fewer levels below the command
                          line argument; --max-depth=0 is the same as
                          --summarize
     --files0-from=F
                        summarize disk usage of the
                          NUL-terminated file names specified in file F;
                          if F is -, then read names from standard input
                        equivalent to --dereference-args (-D)
  -H
  -h, --human-readable
                        print sizes in human readable format (e.g., 1K 234M 2G)
      --inodes
                        list inode usage information instead of block usage
                        like --block-size=1K
  -k
  -L, --dereference
                        dereference all symbolic links
  -1, --count-links
                        count sizes many times if hard linked
                        like --block-size=1M
  -P, --no-dereference don't follow any symbolic links (this is the default)
                        for directories do not include size of subdirectories
  -S, --separate-dirs
      --si
                        like -h, but use powers of 1000 not 1024
  -s, --summarize
                        display only a total for each argument
  -t, --threshold=SIZE exclude entries smaller than SIZE if positive,
                          or entries greater than SIZE if negative
      --time
                        show time of the last modification of any file in the
                          directory, or any of its subdirectories
      --time=WORD
                        show time as WORD instead of modification time:
                          atime, access, use, ctime or status
     --time-style=STYLE show times using STYLE, which can be:
                            full-iso, long-iso, iso, or +FORMAT;
                            FORMAT is interpreted like in 'date'
  -X, --exclude-from=FILE exclude files that match any pattern in FILE
      --exclude=PATTERN
                           exclude files that match PATTERN
  -x, --one-file-system
                           skip directories on different file systems
                 display this help and exit
      --version output version information and exit
```

Display values are in units of the first available SIZE from --block-size, and the DU_BLOCK_SIZE, BLOCK_SIZE and BLOCKSIZE environment variables. Otherwise, units default to 1024 bytes (or 512 if POSIXLY_CORRECT is set).

SIZE is an integer and optional unit (example: 10M is 10*1024*1024). Units are K, M, G, T, P, E, Z, Y (powers of 1024) or KB, MB, ... (powers of 1000).

GNU coreutils online help: http://www.gnu.org/software/coreutils/ For complete documentation, run: info coreutils 'du invocation'

More Resources

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