Nama : Abdul Karim

Nim : 09011282429038

Kelas : SK3A

50 Command Line

1. Uname -a : Menampilkan informasi sistem

```
[akarim@localhost ~]$ uname -a
Linux localhost.localdomain 5.14.0-570.12.1.el9_6.x86_64 #1 SMP PREEMPT_DYNAMIC Tue May 13 06:11:55 EDT 2025 x86_64 x86_64 x86_64 GNU/Linux
[akarim@localhost ~]$
```

2. Hostname : Menampilkan nama komputer

```
[akarim@localhost ~]$ hostname
localhost.localdomain
[akarim@localhost ~]$
```

3. yes Linux | head -n 5 : Menampilkan kata Linux sebanyak 5 kali.

```
[akarim@localhost ~]$ yes linux | head -n 5
linux
linux
linux
linux
linux
[akarim@localhost ~]$
```

4. man date : Melihat manual penggunaan command date

```
DATE(1)                                      User Commands                                      DATE(1)

NAME
       date - print or set the system date and time

SYNOPSIS
       date [OPTION]... [+FORMAT]
       date [-u|--utc|--universal] [MMDDhhmm[[CC]YY][.ss]]

DESCRIPTION
       Display the current time in the given FORMAT, or set the system date.

       Mandatory arguments to long options are mandatory for short options too.

       -d, --date=STRING
              display time described by STRING, not 'now'

       --debug
              annotate the parsed date, and warn about questionable usage to stderr

       -f, --file=DATEFILE
              like --date; once for each line of DATEFILE

       -I[FMT], --iso-8601[=FMT]
              output date/time in ISO 8601 format.  FMT='date' for date only (the default), 'hours', 'minutes', 'seconds', or 'ns' for date and time to the indicated precision.  Example:
              2006-08-14T02:34:56-06:00

       -R, --rfc-email
              output date and time in RFC 5322 format.  Example: Mon, 14 Aug 2006 02:34:56 -0600

       --rfc-3339=FMT
              output date/time in RFC 3339 format.  FMT='date', 'seconds', or 'ns' for date and time to the indicated precision.  Example: 2006-08-14 02:34:56-06:00

       -r, --reference=FILE
              display the last modification time of FILE

       -s, --set=STRING
              set time described by STRING

       -u, --utc, --universal
              print or set Coordinated Universal Time (UTC)

       --help display this help and exit

       --version
              output version information and exit

       FORMAT controls the output.  Interpreted sequences are:

       %%     a literal %

Manual page date(1) line 1 (press h for help or q to quit)
```

5. echo -e "\x48\x65\x6c\x6c\x6f Linux" : file.bin: membuat file biner dengan kode heksadesimal (\x48\x65...) yang sebenarnya merepresentasikan teks Hello Linux.

```
[akarim@localhost ~]$ echo -e "/x48/x65/x6c/x6c/x6f/ Linux" > file.bin
[akarim@localhost ~]$
```

6. uname -m : Menampilkan arsitektur mesin (misalnya x86_64).

```
[akarim@localhost ~]$ uname -m
x86_64
[akarim@localhost ~]$
```

7. echo $PATH: menampilkan PATH environment

```
[akarim@localhost ~]$ echo $PATH
/home/akarim/.local/bin:/home/akarim/bin:/usr/local/bin:/usr/local/sbin:/usr/bin:/usr/sbin
[akarim@localhost ~]$
```

8. w : Menampilkan user login dan aktivitasnya.

```
[akarim@localhost ~]$ w
 05:31:16 up 1:30, 2 users, load average: 0.08, 0.05, 0.01
USER     TTY      LOGIN@   IDLE   JCPU   PCPU WHAT
akarim   seat0    04:01    0.00s  0.00s  0.02s /usr/libexec/gdm-wayland-session --register-session gnome-session
akarim   tty2     04:01    1:30m  0.12s  0.10s /usr/libexec/gnome-session-binary
[akarim@localhost ~]$
```

9. date : Menampilkan tanggal dan waktu

```
[akarim@localhost ~]$ date
Tue Sep 16 05:32:07 AM EDT 2025
[akarim@localhost ~]$
```

10. echo "Hay" > filehay.txt : Membuat file baru bernama filehay.txt dan menuliskan teks Hay di dalamnya.

```
[akarim@localhost ~]$ echo "hay" > filehay.txt
[akarim@localhost ~]$ cat filehay.txt
hay
[akarim@localhost ~]$
```

11. cat : Menampilkan konten file

```
[akarim@localhost ~]$ cat filehay.txt
hay
[akarim@localhost ~]$
```

12. echo "Halo" > filehalo.txt : membuat file baru bernama filehalo.txt dan menuliskan teks Halo di dalamnya.

```
[akarim@localhost ~]$ echo "Halo" > filehalo.txt
[akarim@localhost ~]$
```

13. diff file1.txt file2.txt : Membandingkan isi file baris demi baris.

```
[akarim@localhost ~]$ diff filehay.txt filehalo.txt
1c1
< hay
---
> Halo
[akarim@localhost ~]$
```

14. cmp filehay.txt filehalo.txt : Membandingkan isi dua file secara biner (byte per byte).

```
[akarim@localhost ~]$ cmp filehay.txt filehalo.txt
filehay.txt filehalo.txt differ: byte 1, line 1
[akarim@localhost ~]$
```

15. printenv : Menampilkan semua environment variable.

16. pwd : Menampilkan Posisi Direktori Saat Ini.

```
[akarim@localhost ~]$ pwd
/home/akarim
[akarim@localhost ~]$
```

17. uptime : Menampilkan lama system berjalan

```
[akarim@localhost ~]$ uptime
 05:47:20 up  1:46,  2 users,  load average: 0.00, 0.00, 0.00
[akarim@localhost ~]$
```

18. last reboot : menampilkan riwayat kapan sistem pernah direboot.

```
[akarim@localhost ~]$ last reebot

wtmp begins Thu Aug 28 12:39:57 2025
[akarim@localhost ~]$
```

19. uname -o : Menampilkan nama sistem operasi.

```
[akarim@localhost ~]$ uname -o
GNU/Linux
[akarim@localhost ~]$
```

20. history | head : Menampilkan beberapa command pertama di riwayat.

```
[akarim@localhost ~]$ history | head
    1  sudo syu
    2  sudo su
    3  lshw
    4  sudo
    5  ls
    6  mkdir test
    7  ls
    8  uname -a
    9  clear
   10  hostname
[akarim@localhost ~]$
```

21. echo $HOME: Menampilkan direktori home

```
[akarim@localhost ~]$ echo $HOME
/home/akarim
[akarim@localhost ~]$
```

22. ls -l : Menampilkan Daftar File Dengan Detail

```
[akarim@localhost ~]$ ls -l
total 16
drwxr-xr-x. 2 akarim akarim    6 Aug 28 12:40 Desktop
drwxr-xr-x. 2 akarim akarim    6 Aug 28 12:40 Documents
drwxr-xr-x. 2 akarim akarim    6 Aug 28 12:40 Downloads
-rw-r--r--. 1 akarim akarim   28 Sep 16 04:17 file.bin
-rw-r--r--. 1 akarim akarim    5 Sep 16 05:39 filehalo.txt
-rw-r--r--. 1 akarim akarim    4 Sep 16 05:33 filehay.txt
drwxr-xr-x. 2 akarim akarim    6 Aug 28 12:40 Music
drwxr-xr-x. 2 akarim akarim 4096 Sep 16 05:50 Pictures
drwxr-xr-x. 2 akarim akarim    6 Aug 28 12:40 Public
drwxr-xr-x. 2 akarim akarim    6 Aug 28 12:40 Templates
drwxr-xr-x. 2 akarim akarim    6 Sep 14 21:33 test
drwxr-xr-x. 2 akarim akarim    6 Aug 28 12:40 Videos
[akarim@localhost ~]$
```

23. free : Menampilkan penggunaan RAM (tanpa format human-readable).

```
[akarim@localhost ~]$ free
              total        used        free      shared  buff/cache   available
Mem:        6147804     1367352     4373492       25612      673660     4780452
Swap:       2097148           0     2097148
[akarim@localhost ~]$
```

24. rev : membalik urutan karakter dalam teks.

```
[akarim@localhost ~]$ rev
Sistem operasi
isarepo metsiS
```

25. lsblk : Menampilkan daftar partisi disk

```
[akarim@localhost ~]$ lsblk
NAME              MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
sda                 8:0    0  20G  0 disk
├─sda1              8:1    0   1G  0 part /boot
└─sda2              8:2    0  19G  0 part
  ├─almalinux-root 253:0   0  17G  0 lvm  /
  └─almalinux-swap 253:1   0   2G  0 lvm  [SWAP]
[akarim@localhost ~]$
```

26. ls : Menampilkan Daftar File Dan Folder.

```
[akarim@localhost ~]$ ls
Desktop  Documents  Downloads  file.bin  filehalo.txt  filehay.txt  Music  Pictures  Public  Templates  test  Videos
[akarim@localhost ~]$
```

27. history | tail : Menampilkan beberapa command terakhir di riwayat.

```
[akarim@localhost ~]$ history | tail
    74  clear
    75  rev
    76  clear
    77  lsblk
    78  clear
    79  ls
    80  clear
    81  history | tai
    82  clear
    83  history | tail
[akarim@localhost ~]$ █
```

28. ps : Menampilkan proses yang sedang berjalan

```
[akarim@localhost ~]$ ps
    PID TTY          TIME CMD
   3164 pts/0    00:00:00 bash
   4747 pts/0    00:00:00 ps
[akarim@localhost ~]$
```

29. ls -a : Menampilkan Semua File Termasuk Yang Tersembunyi

```
[akarim@localhost ~]$ ls -a
.  ..  .bash_history  .bash_logout  .bash_profile  .bashrc  .cache  .config  Desktop  Documents  Downloads  file.bin  filehala.txt  filehay.txt  .lesshst  .local  .mozilla  Music  Pictures  Public  Templates  text  Videos
[akarim@localhost ~]$
```

30. df -h : menampilkan informasi penggunaan ruang disk (storage) dalam format yang mudah dibaca manusia (human-readable)

```
[akarim@localhost ~]$ df -h
Filesystem               Size  Used Avail Use% Mounted on
devtmpfs                 4.0M     0  4.0M   0% /dev
tmpfs                    3.0G     0  3.0G   0% /dev/shm
tmpfs                    1.2G   18M  1.2G   2% /run
/dev/mapper/almalinux-root  17G  5.6G   12G  33% /
/dev/sda1                960M  366M  595M  39% /boot
tmpfs                    601M  104K  601M   1% /run/user/1000
[akarim@localhost ~]$ █
```

31. alias : Menampilkan daftar alias command

```
[akarim@localhost ~]$ alias
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l.='ls -d .* --color=auto'
alias ls='ls --color=auto'
alias xzegrep='xzegrep --color=auto'
alias xzfgrep='xzfgrep --color=auto'
alias xzgrep='xzgrep --color=auto'
alias zegrep='zegrep --color=auto'
alias zfgrep='zfgrep --color=auto'
alias zgrep='zgrep --color=auto'
[akarim@localhost ~]$
```

32. whoami: Menampilkan nama user

```
[akarim@localhost ~]$ whoami
akarim
[akarim@localhost ~]$ █
```

33. factor 100 : menampilkan faktor bilangan 100.

```
[akarim@localhost ~]$ factor 100
100: 2 2 5 5
[akarim@localhost ~]$
```

34. id : Menampilkan informasi user dan grup

```
[akarim@localhost ~]$ id
uid=1000(akarim) gid=1000(akarim) groups=1000(akarim),10(wheel) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0-c1023
[akarim@localhost ~]$
```

35. od -c filehay.txt: Menampilkan isi file dalam format kode ASCII (octal/karakter)

```
[akarim@localhost ~]$ od -c filehay.txt
0000000    h    a    y   \n
0000004
[akarim@localhost ~]$
```

36. echo "Hello Linux" : Menampilkan teks kelayar

```
[akarim@localhost ~]$ echo "hello world"
hello world
[akarim@localhost ~]$
```

37. top : Menampilkan proses system secara real-time

38. free -h : menampilkan penggunaan RAM

```
[akarim@localhost ~]$ free -h
               total        used        free      shared  buff/cache   available
Mem:           5.9Gi       1.4Gi       2.9Gi        36Mi       1.8Gi       4.4Gi
Swap:          2.0Gi          0B       2.0Gi
[akarim@localhost ~]$
```

39. Uname -r : Menampilkan versi kernel linux

```
[akarim@localhost ~]$ uname -r
5.14.0-570.12.1.el9_6.x86_64
[akarim@localhost ~]$
```

40. strings file.bin: Menampilkan teks yang bisa dibaca dari file biner.

```
[akarim@localhost ~]$ strings file.bin
/x48/x65/x6c/x6c/x6f/ Linux
[akarim@localhost ~]$
```

41. alias ll='ls -lh' : Membuat alias sederhana untuk ls -lh.

```
[akarim@localhost ~]$ alias ll='ls-lh'
[akarim@localhost ~]$ alias
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l.='ls -d .* --color=auto'
alias ll='ls-lh'
alias ls='ls --color=auto'
alias xzegrep='xzegrep --color=auto'
alias xzfgrep='xzfgrep --color=auto'
alias xzgrep='xzgrep --color=auto'
alias zegrep='zegrep --color=auto'
alias zfgrep='zfgrep --color=auto'
alias zgrep='zgrep --color=auto'
[akarim@localhost ~]$
```

42. groups : Menampilkan grup yang diikuti user

```
[akarim@localhost ~]$ groups
akarim wheel
[akarim@localhost ~]$ 
```

43. seq 1 10 : Menampilkan angka 1 sampai 10 berurutan.

```
[akarim@localhost ~]$ seq 1 10
1
2
3
4
5
6
7
8
9
10
[akarim@localhost ~]$
```

44. who : Menampilkan siapa saja user dan grup

```
[akarim@localhost ~]$ who
akarim   seat0       2025-09-16 04:01 (login screen)
akarim   tty2        2025-09-16 04:01 (tty2)
[akarim@localhost ~]$ 
```

45. man ls : Melihat manual command ls

46. last : Menampilkan riwayat login user

47. cal -y : Menampilkan kalender 1 tahun penuh.

48. ls --help : Menampilkan bantuan singkat tentang command ls

```
[akarim@localhost ~]$ ls --help
Usage: ls [OPTION]... [FILE]...
List information about the FILEs (the current directory by default).
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.
  -a, --all                  do not ignore entries starting with .
  -A, --almost-all           do not list implied . and ..
      --author               with -l, print the author of each file
  -b, --escape               print C-style escapes for nongraphic characters
      --block-size=SIZE      with -l, scale sizes by SIZE when printing them;
                               e.g., '--block-size=M'; see SIZE format below
  -B, --ignore-backups       do not list implied entries ending with ~
  -c                         with -lt: sort by, and show, ctime (time of last
                               modification of file status information);
                               with -l: show ctime and sort by name;
                               otherwise: sort by ctime, newest first
  -C                         list entries by columns
      --color[=WHEN]         colorize the output; WHEN can be 'always' (default
                               if omitted), 'auto', or 'never'; more info below
  -d, --directory            list directories themselves, not their contents
  -D, --dired                generate output designed for Emacs' dired mode
  -f                         do not sort, enable -aU, disable -ls --color
  -F, --classify             append indicator (one of */=>@|) to entries
      --file-type            likewise, except do not append '*'
      --format=WORD          across -x, commas -m, horizontal -x, long -l,
                               single-column -1, verbose -l, vertical -C
      --full-time            like -l --time-style=full-iso
  -g                         like -l, but do not list owner
      --group-directories-first
                             group directories before files;
                               can be augmented with a --sort option, but any
                               use of --sort=none (-U) disables grouping
  -G, --no-group             in a long listing, don't print group names
  -h, --human-readable       with -l and -s, print sizes like 1K 234M 2G etc.
      --si                   likewise, but use powers of 1000 not 1024
  -H, --dereference-command-line
                             follow symbolic links listed on the command line
      --dereference-command-line-symlink-to-dir
                             follow each command line symbolic link
                               that points to a directory
      --hide=PATTERN         do not list implied entries matching shell PATTERN
                               (overridden by -a or -A)
      --hyperlink[=WHEN]     hyperlink file names; WHEN can be 'always'
                               (default if omitted), 'auto', or 'never'
      --indicator-style=WORD  append indicator with style WORD to entry names:
                               none (default), slash (-p),
                               file-type (--file-type), classify (-F)
  -i, --inode                print the index number of each file
  -I, --ignore=PATTERN       do not list implied entries matching shell PATTERN
  -k, --kibibytes            default to 1024-byte blocks for disk usage;
                               used only with -s and per directory totals
  -l                         use a long listing format
```

49. lspci : Menampilkan daftar perangkat PCI (misalnya VGA, sound card).

```
[akarim@localhost ~]$ lspci
00:00.0 Host bridge: Intel Corporation 440FX - 82441FX PMC [Natoma] (rev 02)
00:01.0 ISA bridge: Intel Corporation 82371SB PIIX3 ISA [Natoma/Triton II]
00:01.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
00:02.0 VGA compatible controller: VMware SVGA II Adapter
00:03.0 Ethernet controller: Intel Corporation 82540EM Gigabit Ethernet Controller (rev 02)
00:04.0 System peripheral: InnoTek Systemberatung GmbH VirtualBox Guest Service
00:05.0 Multimedia audio controller: Intel Corporation 82801AA AC'97 Audio Controller (rev 01)
00:06.0 USB controller: Apple Inc. KeyLargo/Intrepid USB
00:07.0 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 08)
00:0b.0 USB controller: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB2 EHCI Controller
00:0d.0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Controller [AHCI mode] (rev 02)
[akarim@localhost ~]$
```

50. ip a : Untuk menampilkan ip addres

```
[akarim@localhost ~]$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:db:5b:16 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
       valid_lft 72982sec preferred_lft 72982sec
    inet6 fd17:625c:f037:2:a00:27ff:fedb:5b16/64 scope global dynamic noprefixroute
       valid_lft 86167sec preferred_lft 14167sec
    inet6 fe80::a00:27ff:fedb:5b16/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
[akarim@localhost ~]$
```