

Lignes de Commandes (CLI)

By Knockturne

CLI (Command Line Interface)

- Permet une communication Homme-Machine
- Utilisateur tape sa commande
- L'ordinateur exécute les commandes

```
mars@marsmain ~$ pwd
/home/mars
mars@marsmain ~$ cd /usr/portage/app-shells/bash
mars@marsmain /usr/portage/app-shells/bash$ ls -al
total 136
drwxr-xr-x  3 portage portage 1024 Jul 25 10:06 .
drwxr-xr-x 33 portage portage 1024 Aug  7 22:39 ..
-rw-r--r--  1 root  root    35808 Jul 25 10:06 ChangeLog
-rw-r--r--  1 root  root    27002 Jul 25 10:06 Manifest
-rw-r--r--  1 portage portage 4645 Mar 23 21:37 bash-3.1_p17.ebuild
-rw-r--r--  1 portage portage 5977 Mar 23 21:37 bash-3.2_p39.ebuild
-rw-r--r--  1 portage portage 6151 Apr  5 14:37 bash-3.2_p48-r1.ebuild
-rw-r--r--  1 portage portage 5988 Mar 23 21:37 bash-3.2_p48.ebuild
-rw-r--r--  1 portage portage 5643 Apr  5 14:37 bash-4.0_p10-r1.ebuild
-rw-r--r--  1 portage portage 6230 Apr  5 14:37 bash-4.0_p10.ebuild
-rw-r--r--  1 portage portage 5648 Apr 14 05:52 bash-4.0_p17-r1.ebuild
-rw-r--r--  1 portage portage 5532 Apr  8 10:21 bash-4.0_p17.ebuild
-rw-r--r--  1 portage portage 5660 May 30 03:35 bash-4.0_p24.ebuild
-rw-r--r--  1 root  root    5660 Jul 25 09:43 bash-4.0_p28.ebuild
drwxr-xr-x  2 portage portage 2848 May 30 03:35 files
-rw-r--r--  1 portage portage 468 Feb  9 04:35 metadata.xml
mars@marsmain /usr/portage/app-shells/bash$ cat metadata.xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE pkgmetadata SYSTEM "http://www.gentoo.org/dtd/metadata.dtd">
<pkgmetadata>
  <herd>base-system</herd>
  <use>
    <flag name='bashlogger'>Log ALL commands typed into bash; should ONLY be
      used in restricted environments such as honeypots</flag>
    <flag name='net'>Enable /dev/tcp/host/port redirection</flag>
    <flag name='plugins'>Add support for loading builtins at runtime via
      'enable'</flag>
  </use>
</pkgmetadata>
mars@marsmain /usr/portage/app-shells/bash$ sudo /etc/init.d/bluetooth status
Password:
* status: started
mars@marsmain /usr/portage/app-shells/bash$ ping -q -c1 en.wikipedia.org
PING rr.esams.wikimedia.org (91.198.174.2) 56(84) bytes of data.

--- rr.esams.wikimedia.org ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 2ms
rtt min/avg/max/mdev = 49.820/49.820/49.820/0.000 ms
mars@marsmain /usr/portage/app-shells/bash$ grep -i /dev/sda /etc/fstab | cut --fields=3
/dev/sda1      /boot
/dev/sda2      none
/dev/sda3      /
mars@marsmain /usr/portage/app-shells/bash$ date
Sat Aug  8 02:42:24 MSD 2009
mars@marsmain /usr/portage/app-shells/bash$ lsmod
Module              Size  Used by
rndis_wlan           23424  0
rndis_host           8696   1 rndis_wlan
cdc_ether            5672   1 rndis_host
usbnet              18688   3 rndis_wlan,rndis_host,cdc_ether
parport_pc          38424  0
fglrx               2388128 20
parport             39648   1 parport_pc
l7C0_wdt            12272   0
i2c_i801             9380   0
mars@marsmain /usr/portage/app-shells/bash$
```

Origine

- Télétype (1960)
- Console (1970)
- Terminaux graphiques (1980)



Les lignes de commandes

- `$> commande options fichiers_ou_données`

Redirections Entrées/Sorties

- `< entree`

- `> sortie`

- `>> sortie`

- `2> erreur`

- `2>> erreur`

- `$> sort monfichier`

- `$> sort monfichier > resultat 2> problemes`

Enchainement de commandes

- On utilise le Pipe ("|")
- `commande1 options arguments | commande2 options | commande3...`
- `find / -size +1000k -mtime -7 | sort | tee trace | less`

Métacaractères

- ?
 - *
 - [c1-c2]
 - \
-
- /usr/bin/vi*

Ligne de Commandeception

- `$> echo "2 + 2 =" `expr 2 + 2``

Autres

- ;
- &&
- ||
- & en fin

Sources

- https://fr.wikipedia.org/wiki/Interface_en_ligne_de_commande
- https://doc.ubuntu-fr.org/tutoriel/console_ligne_de_commande