

# Współczesne systemy komputerowe

## Instalacja oprogramowania

### Menadżer pakietów apt

- apt to konsolowy menadżer pakietów, pozwalający na zarządzanie oprogramowaniem

list	wyświetlanie listy pakietów
search	szukanie pakietów (w opisach)
show	informacje o pakiecie
install	instalacja pakietu
remove	odinstalowanie pakietu
autoremove	automatyczne odinstalowanie nieużywanych pakietów
update	aktualizacja informacji o dostępnych pakietach
upgrade	aktualizacja pakietów
full-upgrade	aktualizacja systemu operacyjnego (menadżer będzie mógł zainstalować, usunąć i aktualizować oprogramowanie)

- Wyświetl zainstalowane pakiety oprogramowania

```
root@debian:~# apt list
Listing... Done
0ad/stable 0.0.21-2 i386
0ad-data/stable 0.0.21-1 all
0ad-data-common/stable 0.0.21-1 all
...
abiword/stable 3.0.2-2+deb9u1 i386
abiword-common/stable 3.0.2-2+deb9u1 all
abiword-plugin-grammar/stable 3.0.2-2+deb9u1 i386
...
aylet/stable 0.5-3+b2 i386
aylet-gtk/stable 0.5-3+b2 i386
babeld/stable 1.7.0-1+b1 i386
...
```

- Odśwież informacje o pakietach

```
root@debian:~# apt update
Ign:1 http://ftp.pl.debian.org/debian stretch InRelease
Get:2 http://security.debian.org/debian-security stretch/updates InRelease [63.0 kB]
Get:3 http://ftp.pl.debian.org/debian stretch-updates InRelease [91.0 kB]
Hit:4 http://ftp.pl.debian.org/debian stretch Release
Get:5 http://security.debian.org/debian-security stretch/updates/main Sources [127 kB]
Get:6 http://security.debian.org/debian-security stretch/updates/main i386 Packages
[352 kB]
Get:7 http://security.debian.org/debian-security stretch/updates/main Translation-en
[155 kB]
Fetched 789 kB in 28s (27.9 kB/s)
```

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
48 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

- Zaktualizuj pakiety

```
root@debian:~# apt upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
...
48 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 141 MB/174 MB of archives.
After this operation, 238 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

- Wyszukaj pakiet mc

```
root@debian:~# apt search mc
Sorting... Done
Full Text Search... Done
alsa-oss/stable 1.0.28-1 i386
  ALSA wrapper for OSS applications

amule-emc/stable 0.5.2-3+b2 i386
  lists ed2k links inside emulecollection files

ap-utils/stable 1.5-3 i386
  Access Point SNMP Utils for Linux

apel/stable 10.8+0.20120427-16 all
  portable library for emacsen

...
```

- Szukanie korzysta z opisów pakietów i może dać nieprecyzyjne wyniki przy krótkich nazwach pakietów, skorzystaj z polecenia **egrep** do filtrowania wyników szukania

```
root@debian:~# apt search mc | egrep ^mc
WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

mc/stable 3:4.8.18-1 i386
mc-data/stable 3:4.8.18-1 all
mcabber/stable 1.0.4-1.1 i386
mccs/stable 1:1.1-5 i386
mcelog/stable 147+dfsg-1 i386
mcl/stable 1:14-137-1+b1 i386
mcl-doc/stable 1:14-137-1 all
mcomix/stable 1.2.1-1 all
mcp-plugins/stable 0.4.0-5 i386
mcpp/stable 2.7.2-4+b2 i386
mcpp-doc/stable 2.7.2-4 all
mcron/stable 1.0.8-1+b2 i386
```

```
mcrypt/stable 2.6.8-1.3+b1 i386
mcstrans/stable 2.6-3 i386
mcu8051ide/stable 1.4.7-2 all
```

- Wyświetl informacje o pakiecie

```
root@debian:~# apt show mc
Package: mc
Version: 3:4.8.18-1
Priority: optional
Section: utils
Maintainer: Debian MC Packaging Group <pkg-mc-devel@lists.alioth.debian.org>
Installed-Size: 1,622 kB
Provides: mcedit
Depends: e2fslibs (>= 1.37), libc6 (>= 2.15), libglib2.0-0 (>= 2.35.9), libgpm2 (>=
1.20.4), libslang2 (>= 2.2.4), libssh2-1 (>= 1.2.8), mc-data (= 3:4.8.18-1)
Recommends: mime-support, perl, unzip
Suggests: arj, bzip2, catdvi | texlive-binaries, dbview, djvulibre-bin, file,
genisoimage, gv, imagemagick, libaspell-dev, links | w3m | lynx, odt2txt,
poppler-utils, python, python-boto, python-tz, xpdf | pdf-viewer, zip
Homepage: http://www.midnight-commander.org
Tag: admin::filesystem, implemented-in::c, implemented-in::perl,
interface::commandline, interface::text-mode, role::program,
scope::application, suite::gnu, uitoolkit::ncurses, use::browsing,
use::editing, use::organizing, works-with::archive, works-with::file
Download-Size: 565 kB
APT-Sources: http://ftp.pl.debian.org/debian stretch/main i386 Packages
Description: Midnight Commander - a powerful file manager
GNU Midnight Commander is a text-mode full-screen file manager. It
uses a two panel interface and a subshell for command execution. It
includes an internal editor with syntax highlighting and an internal
viewer with support for binary files. Also included is Virtual
Filesystem (VFS), that allows files on remote systems (e.g. FTP, SSH
servers) and files inside archives to be manipulated like real files.
```

- Zainstaluj pakiet **mc** (*Midnight Commander* - konsolowy menadżer plików)

```
root@debian:~# apt install mc
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  mc-data
Suggested packages:
  arj catdvi | texlive-binaries dbview djvulibre-bin gv libaspell-dev links
  | w3m | lynx odt2txt python-boto python-tz zip
The following NEW packages will be installed:
  mc mc-data
0 upgraded, 2 newly installed, 0 to remove and 48 not upgraded.
Need to get 1,832 kB of archives.
After this operation, 7,332 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

- Odinstaluj pakiet **mc**

```
root@debian:~# apt remove mc
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

```
The following package was automatically installed and is no longer required:
mc-data
Use 'apt autoremove' to remove it.
The following packages will be REMOVED:
mc
0 upgraded, 0 newly installed, 1 to remove and 48 not upgraded.
After this operation, 1,622 kB disk space will be freed.
Do you want to continue? [Y/n] y
```

- Usun niepotrzebne pakiety (zainstalowane jako zależności)

```
root@debian:~# apt autoremove
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be REMOVED:
mc-data
0 upgraded, 0 newly installed, 1 to remove and 48 not upgraded.
After this operation, 5,710 kB disk space will be freed.
Do you want to continue? [Y/n] y

(Reading database ... 134723 files and directories currently installed.)
Removing mc-data (3:4.8.18-1) ...
Processing triggers for man-db (2.7.6.1-2) ...
Processing triggers for hicolor-icon-theme (0.15-1) ...
```

- Pobierz bez instalowania pakiet **mc**

```
root@debian:~# apt -d install mc
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
mc-data
Suggested packages:
  arj catdvi | texlive-binaries dbview djvulibre-bin gv libaspell-dev links
  | w3m | lynx odt2txt python-boto python-tz zip
The following NEW packages will be installed:
mc mc-data
0 upgraded, 2 newly installed, 0 to remove and 48 not upgraded.
Need to get 0 B/1,832 kB of archives.
After this operation, 7,332 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Download complete and in download only mode
```

## Polecenie dpkg

- **dpkg** to oprogramowanie niskiego poziomu do podstawowych operacji na pakietach instalacyjnych, nie rozwiązuje zależności, nie może pobierać pakietów z internetu
- **dpkg** posługuje się nazwami plików pakietów (**.deb**)
- W katalogu **/var/cache/apt/archives** znajdują się pobrane (zainstalowane i niezainstalowane) pakiety oprogramowania
- Wyszukaj nazwy pakietów zaczynających się na **mc**

```
root@debian:~# ls -l /var/cache/apt/archives/mc*
-rw-r--r-- 1 root root 564738 Oct 17 2016 /var/cache/apt/archives/mc_3%3a4.8.18-1_i386.deb
```

```
-rw-r--r-- 1 root root 1267428 Oct 17 2016 /var/cache/apt/archives/mc-data_3%3a4.8.18-1_all.deb
```

- Sprawdź zawartość pakietu **mc** (lista plików, które zostaną zainstalowane w systemie)

```
root@debian:~# dpkg -c /var/cache/apt/archives/mc_3%3a4.8.18-1_i386.deb
drwxr-xr-x root/root          0 2016-10-17 00:59 ./
drwxr-xr-x root/root          0 2016-10-17 00:59 ./etc/
drwxr-xr-x root/root          0 2016-10-17 00:59 ./etc/mc/
-rwxr-xr-x root/root        788 2016-10-17 00:59 ./etc/mc/edit.indent.rc
-rw-r--r-- root/root       1174 2016-10-17 00:59 ./etc/mc/filehighlight.ini
-rw-r--r-- root/root       8711 2016-10-17 00:59 ./etc/mc/mc.default.keymap
-rw-r--r-- root/root       8649 2016-10-17 00:59 ./etc/mc/mc.emacs.keymap
-rw-r--r-- root/root      20413 2016-10-17 00:59 ./etc/mc/mc.ext
-rw-r--r-- root/root      11399 2016-10-17 00:59 ./etc/mc/mc.menu
-rw-r--r-- root/root      12627 2016-10-17 00:59 ./etc/mc/mcedit.menu
-rw-r--r-- root/root        825 2016-10-17 00:59 ./etc/mc/sfs.ini
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/bin/
-rwxr-xr-x root/root     1177492 2016-10-17 00:59 ./usr/bin/mc
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/lib/
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/lib/mc/
-rwxr-sr-x root/tty        9576 2016-10-17 00:59 ./usr/lib/mc/cons.saver
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/lib/mc/ext.d/
-rwxr-xr-x root/root       3725 2016-10-17 00:59 ./usr/lib/mc/ext.d/archive.sh
-rwxr-xr-x root/root       5052 2016-10-17 00:59 ./usr/lib/mc/ext.d/doc.sh
-rwxr-xr-x root/root       1048 2016-10-17 00:59 ./usr/lib/mc/ext.d/image.sh
-rwxr-xr-x root/root       2054 2016-10-17 00:59 ./usr/lib/mc/ext.d/misc.sh
-rwxr-xr-x root/root       1116 2016-10-17 00:59 ./usr/lib/mc/ext.d/package.sh
-rwxr-xr-x root/root       1916 2016-10-17 00:59 ./usr/lib/mc/ext.d/sound.sh
-rwxr-xr-x root/root       3314 2016-10-17 00:59 ./usr/lib/mc/ext.d/text.sh
-rwxr-xr-x root/root        971 2016-10-17 00:59 ./usr/lib/mc/ext.d/video.sh
-rwxr-xr-x root/root       1103 2016-10-17 00:59 ./usr/lib/mc/ext.d/web.sh
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/lib/mc/extfs.d/
-rw-r--r-- root/root       7392 2016-10-17 00:59 ./usr/lib/mc/extfs.d/README
-rw-r--r-- root/root       1134 2016-10-17 00:59 ./usr/lib/mc/extfs.d/README.extfs
-rwxr-xr-x root/root       3206 2016-10-17 00:59 ./usr/lib/mc/extfs.d/a+
-rwxr-xr-x root/root       9726 2016-10-17 00:59 ./usr/lib/mc/extfs.d/apt+
-rwxr-xr-x root/root       1319 2016-10-17 00:59 ./usr/lib/mc/extfs.d/audio
-rwxr-xr-x root/root       1207 2016-10-17 00:59 ./usr/lib/mc/extfs.d/bpp
-rwxr-xr-x root/root       2562 2016-10-17 00:59 ./usr/lib/mc/extfs.d/changesetfs
-rwxr-xr-x root/root       5464 2016-10-17 00:59 ./usr/lib/mc/extfs.d/deb
-rwxr-xr-x root/root       3074 2016-10-17 00:59 ./usr/lib/mc/extfs.d/deba
-rwxr-xr-x root/root     10503 2016-10-17 00:59 ./usr/lib/mc/extfs.d/debd
-rwxr-xr-x root/root       8998 2016-10-17 00:59 ./usr/lib/mc/extfs.d/dpkg+
-rwxr-xr-x root/root        782 2016-10-17 00:59 ./usr/lib/mc/extfs.d/gitfs+
-rwxr-xr-x root/root       2629 2016-10-17 00:59 ./usr/lib/mc/extfs.d/hp48+
-rwxr-xr-x root/root       5756 2016-10-17 00:59 ./usr/lib/mc/extfs.d/iso9660
-rwxr-xr-x root/root       1333 2016-10-17 00:59 ./usr/lib/mc/extfs.d/lslR
-rwxr-xr-x root/root       5720 2016-10-17 00:59 ./usr/lib/mc/extfs.d/mailfs
-rwxr-xr-x root/root     11146 2016-10-17 00:59 ./usr/lib/mc/extfs.d/patchfs
-rwxr-xr-x root/root       2310 2016-10-17 00:59 ./usr/lib/mc/extfs.d/patchsetfs
-rwxr-xr-x root/root     12435 2016-10-17 00:59 ./usr/lib/mc/extfs.d/rpm
-rwxr-xr-x root/root       1509 2016-10-17 00:59 ./usr/lib/mc/extfs.d/rpms+
-rwxr-xr-x root/root     13082 2016-10-17 00:59 ./usr/lib/mc/extfs.d/s3+
-rwxr-xr-x root/root       7836 2016-10-17 00:59 ./usr/lib/mc/extfs.d/trpm
-rwxr-xr-x root/root       3054 2016-10-17 00:59 ./usr/lib/mc/extfs.d/u7z
-rwxr-xr-x root/root       1256 2016-10-17 00:59 ./usr/lib/mc/extfs.d/uace
-rwxr-xr-x root/root       1279 2016-10-17 00:59 ./usr/lib/mc/extfs.d/ualz
-rwxr-xr-x root/root       1323 2016-10-17 00:59 ./usr/lib/mc/extfs.d/uar
-rwxr-xr-x root/root       1629 2016-10-17 00:59 ./usr/lib/mc/extfs.d/uarc
```

```

-rwxr-xr-x root/root          1654 2016-10-17 00:59 ./usr/lib/mc/extfs.d/uarj
-rwxr-xr-x root/root        18730 2016-10-17 00:59 ./usr/lib/mc/extfs.d/uc1541
-rwxr-xr-x root/root          733 2016-10-17 00:59 ./usr/lib/mc/extfs.d/ucab
-rwxr-xr-x root/root          968 2016-10-17 00:59 ./usr/lib/mc/extfs.d/uha
-rwxr-xr-x root/root         3869 2016-10-17 00:59 ./usr/lib/mc/extfs.d/ulha
-rwxr-xr-x root/root         2825 2016-10-17 00:59 ./usr/lib/mc/extfs.d/ulib
-rwxr-xr-x root/root         4217 2016-10-17 00:59 ./usr/lib/mc/extfs.d/urar
-rwxr-xr-x root/root       15157 2016-10-17 00:59 ./usr/lib/mc/extfs.d/uzip
-rwxr-xr-x root/root         1424 2016-10-17 00:59 ./usr/lib/mc/extfs.d/uzoo
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/lib/mc/fish/
-rw-r--r-- root/root        6501 2016-10-17 00:59 ./usr/lib/mc/fish/README.fish
-rw-r--r-- root/root         422 2016-10-17 00:59 ./usr/lib/mc/fish/append
-rw-r--r-- root/root         147 2016-10-17 00:59 ./usr/lib/mc/fish/chmod
-rw-r--r-- root/root         172 2016-10-17 00:59 ./usr/lib/mc/fish/chown
-rw-r--r-- root/root          88 2016-10-17 00:59 ./usr/lib/mc/fish/exists
-rw-r--r-- root/root       2151 2016-10-17 00:59 ./usr/lib/mc/fish/get
-rw-r--r-- root/root         182 2016-10-17 00:59 ./usr/lib/mc/fish/hardlink
-rw-r--r-- root/root         985 2016-10-17 00:59 ./usr/lib/mc/fish/info
-rw-r--r-- root/root         187 2016-10-17 00:59 ./usr/lib/mc/fish/ln
-rw-r--r-- root/root       4769 2016-10-17 00:59 ./usr/lib/mc/fish/ls
-rw-r--r-- root/root         111 2016-10-17 00:59 ./usr/lib/mc/fish/mkdir
-rw-r--r-- root/root         142 2016-10-17 00:59 ./usr/lib/mc/fish/mv
-rw-r--r-- root/root         111 2016-10-17 00:59 ./usr/lib/mc/fish/rmdir
-rw-r--r-- root/root         442 2016-10-17 00:59 ./usr/lib/mc/fish/send
-rw-r--r-- root/root         114 2016-10-17 00:59 ./usr/lib/mc/fish/unlink
-rw-r--r-- root/root         399 2016-10-17 00:59 ./usr/lib/mc/fish/utime
-rwxr-xr-x root/root         406 2016-10-17 00:59 ./usr/lib/mc/mc-wrapper.csh
-rwxr-xr-x root/root         329 2016-10-17 00:59 ./usr/lib/mc/mc-wrapper.sh
-rwxr-xr-x root/root          45 2016-10-17 00:59 ./usr/lib/mc/mc.csh
-rwxr-xr-x root/root         149 2016-10-17 00:59 ./usr/lib/mc/mc.sh
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/share/
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/share/applications/
-rw-r--r-- root/root         622 2015-02-23 19:22 ./usr/share/applications/mc.desktop
-rw-r--r-- root/root       3402 2015-02-23 19:22 ./usr/share/applications/mcedit.desktop
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/share/doc/
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/share/doc/mc/
-rw-r--r-- root/root         417 2015-03-24 17:08 ./usr/share/doc/mc/NEWS.Debian.gz
-rw-r--r-- root/root        1161 2012-09-24 00:39 ./usr/share/doc/mc/README.Debian
-rw-r--r-- root/root       23756 2016-10-17 00:59 ./usr/share/doc/mc/changelog.Debian.gz
-rw-r--r-- root/root       25908 2016-10-02 19:40 ./usr/share/doc/mc/changelog.gz
-rw-r--r-- root/root       7827 2016-10-17 00:51 ./usr/share/doc/mc/copyright
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/share/lintian/
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/share/lintian/overrides/
-rw-r--r-- root/root          91 2015-02-23 19:22 ./usr/share/lintian/overrides/mc
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/share/mc/
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/share/mc/bin/
drwxr-xr-x root/root          0 2016-10-17 00:59 ./usr/share/pixmaps/
-rw-r--r-- root/root        1349 2012-09-24 00:39 ./usr/share/pixmaps/mc.xpm
-rw-r--r-- root/root        1309 2015-02-23 19:22 ./usr/share/pixmaps/mcedit.xpm
lrwxrwxrwx root/root          0 2016-10-17 00:59 ./etc/mc/mc.keymap -> mc.default.keymap
lrwxrwxrwx root/root          0 2016-10-17 00:59 ./usr/bin/mcdiff -> mc
lrwxrwxrwx root/root          0 2016-10-17 00:59 ./usr/bin/mcedit -> mc
lrwxrwxrwx root/root          0 2016-10-17 00:59 ./usr/bin/mcview -> mc
lrwxrwxrwx root/root          0 2016-10-17 00:59 ./usr/share/mc/bin/mc-wrapper.csh ->
./../../../../lib/mc/mc-wrapper.csh
lrwxrwxrwx root/root          0 2016-10-17 00:59 ./usr/share/mc/bin/mc-wrapper.sh ->
./../../../../lib/mc/mc-wrapper.sh
lrwxrwxrwx root/root          0 2016-10-17 00:59 ./usr/share/mc/bin/mc.csh ->
./../../../../lib/mc/mc.csh
lrwxrwxrwx root/root          0 2016-10-17 00:59 ./usr/share/mc/bin/mc.sh ->
./../../../../lib/mc/mc.sh

```

- Zainstaluj pakiet **mc**, wcześniej zainstaluj pakiet **mc-data** potrzebny do działania menadżera **mc**

```
root@debian:~# dpkg -i /var/cache/apt/archives/mc-data_3%3a4.8.18-1_all.deb
Selecting previously unselected package mc-data.
(Reading database ... 134459 files and directories currently installed.)
Preparing to unpack .../mc-data_3%3a4.8.18-1_all.deb ...
Unpacking mc-data (3:4.8.18-1) ...
Setting up mc-data (3:4.8.18-1) ...
Processing triggers for hicolor-icon-theme (0.15-1) ...
Processing triggers for man-db (2.7.6.1-2) ...
```

```
root@debian:~# dpkg -i /var/cache/apt/archives/mc_3%3a4.8.18-1_i386.deb
Selecting previously unselected package mc.
(Reading database ... 134724 files and directories currently installed.)
Preparing to unpack .../mc_3%3a4.8.18-1_i386.deb ...
Unpacking mc (3:4.8.18-1) ...
Setting up mc (3:4.8.18-1) ...
update-alternatives: using /usr/bin/mcview to provide /usr/bin/view (view) in auto mode
Processing triggers for gnome-menus (3.13.3-9) ...
Processing triggers for desktop-file-utils (0.23-1) ...
Processing triggers for mime-support (3.60) ...
```

- Wyświetl krótką informację o pakiecie

```
root@debian:~# dpkg -l mc
Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/half-f-inst/Trig-await/Trig-pend
|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
||/ Name          Version          Architecture Description
++-----+-----+-----+-----+
ii mc              3:4.8.18-1      i386          Midnight Commander - a powerful f
```

- Wyświetl listę plików, których pakiet jest *właścicielem*

```
root@debian:~# dpkg -L mc
/.
/etc
/etc/mc
/etc/mc/edit.indent.rc
/etc/mc/filehighlight.ini
/etc/mc/mc.default.keymap
/etc/mc/mc.emacs.keymap
/etc/mc/mc.ext
/etc/mc/mc.menu
/etc/mc/mcedit.menu
/etc/mc/sfs.ini
/usr
/usr/bin
/usr/bin/mc
/usr/lib
/usr/lib/mc
/usr/lib/mc/cons.saver
/usr/lib/mc/ext.d
/usr/lib/mc/ext.d/archive.sh
/usr/lib/mc/ext.d/doc.sh
/usr/lib/mc/ext.d/image.sh
/usr/lib/mc/ext.d/misc.sh
/usr/lib/mc/ext.d/package.sh
/usr/lib/mc/ext.d/sound.sh
```

```
/usr/lib/mc/ext.d/text.sh
/usr/lib/mc/ext.d/video.sh
/usr/lib/mc/ext.d/web.sh
/usr/lib/mc/extfs.d
/usr/lib/mc/extfs.d/README
/usr/lib/mc/extfs.d/README.extfs
/usr/lib/mc/extfs.d/a+
/usr/lib/mc/extfs.d/apt+
/usr/lib/mc/extfs.d/audio
/usr/lib/mc/extfs.d/bpp
/usr/lib/mc/extfs.d/changesetfs
/usr/lib/mc/extfs.d/deb
/usr/lib/mc/extfs.d/deba
/usr/lib/mc/extfs.d/debd
/usr/lib/mc/extfs.d/dpkg+
/usr/lib/mc/extfs.d/gitfs+
/usr/lib/mc/extfs.d/hp48+
/usr/lib/mc/extfs.d/iso9660
/usr/lib/mc/extfs.d/lslR
/usr/lib/mc/extfs.d/mailfs
/usr/lib/mc/extfs.d/patchfs
/usr/lib/mc/extfs.d/patchsetfs
/usr/lib/mc/extfs.d/rpm
/usr/lib/mc/extfs.d/rpms+
/usr/lib/mc/extfs.d/s3+
/usr/lib/mc/extfs.d/trpm
/usr/lib/mc/extfs.d/u7z
/usr/lib/mc/extfs.d/uace
/usr/lib/mc/extfs.d/ualz
/usr/lib/mc/extfs.d/uar
/usr/lib/mc/extfs.d/uarc
/usr/lib/mc/extfs.d/uarj
/usr/lib/mc/extfs.d/uc1541
/usr/lib/mc/extfs.d/ucab
/usr/lib/mc/extfs.d/uha
/usr/lib/mc/extfs.d/ulha
/usr/lib/mc/extfs.d/ulib
/usr/lib/mc/extfs.d/urar
/usr/lib/mc/extfs.d/uzip
/usr/lib/mc/extfs.d/uzoo
/usr/lib/mc/fish
/usr/lib/mc/fish/README.fish
/usr/lib/mc/fish/append
/usr/lib/mc/fish/chmod
/usr/lib/mc/fish/chown
/usr/lib/mc/fish/fexists
/usr/lib/mc/fish/get
/usr/lib/mc/fish/hardlink
/usr/lib/mc/fish/info
/usr/lib/mc/fish/ln
/usr/lib/mc/fish/ls
/usr/lib/mc/fish/mkdir
/usr/lib/mc/fish/mv
/usr/lib/mc/fish/rmdir
/usr/lib/mc/fish/send
/usr/lib/mc/fish/unlink
/usr/lib/mc/fish/utime
/usr/lib/mc/mc-wrapper.csh
/usr/lib/mc/mc-wrapper.sh
/usr/lib/mc/mc.csh
/usr/lib/mc/mc.sh
/usr/share
```



```
/usr/share/applications
/usr/share/applications/mc.desktop
/usr/share/applications/mcedit.desktop
/usr/share/doc
/usr/share/doc/mc
/usr/share/doc/mc/NEWS.Debian.gz
/usr/share/doc/mc/README.Debian
/usr/share/doc/mc/changelog.Debian.gz
/usr/share/doc/mc/changelog.gz
/usr/share/doc/mc/copyright
/usr/share/lintian
/usr/share/lintian/overrides
/usr/share/lintian/overrides/mc
/usr/share/mc
/usr/share/mc/bin
/usr/share/pixmaps
/usr/share/pixmaps/mc.xpm
/usr/share/pixmaps/mcedit.xpm
/etc/mc/mc.keymap
/usr/bin/mcdiff
/usr/bin/mcedit
/usr/bin/mcview
/usr/share/mc/bin/mc-wrapper.csh
/usr/share/mc/bin/mc-wrapper.sh
/usr/share/mc/bin/mc.csh
/usr/share/mc/bin/mc.sh
```

- Wyświetl status pakietu

```
root@debian:~# dpkg -s mc
Package: mc
Status: install ok installed
Priority: optional
Section: utils
Installed-Size: 1584
Maintainer: Debian MC Packaging Group <pkg-mc-devel@lists.alioth.debian.org>
Architecture: i386
Version: 3:4.8.18-1
Provides: mcedit
Depends: e2fslibs (>= 1.37), libc6 (>= 2.15), libglib2.0-0 (>= 2.35.9), libgpm2 (>= 1.20.4), libslang2 (>= 2.2.4), libssh2-1 (>= 1.2.8), mc-data (= 3:4.8.18-1)
Recommends: mime-support, perl, unzip
Suggests: arj, bzip2, catdvi | texlive-binaries, dbview, djvulibre-bin, file, gisoimage, gv, imagemagick, libaspell-dev, links | w3m | lynx, odt2txt, poppler-utils, python, python-boto, python-tz, xpdf | pdf-viewer, zip
Conffiles:
 /etc/mc/edit.indent.rc 008c6d0205315a87a977c7cd74a1526e
 /etc/mc/filehighlight.ini 6286e7210f27dbc1050c70abb2494ed9
 /etc/mc/mc.default.keymap f2100ac6d57096ada25b0a40c5924db3
 /etc/mc/mc.emacs.keymap 2445ca1695fd8671b8d8ca471bc8caf1
 /etc/mc/mc.ext 4a22ad7fe7d986abc42cb5ba7e72a8dd
 /etc/mc/mc.menu 2b80c8d46c25b9f04fa92b34dbec566b
 /etc/mc/mcedit.menu 8db98bd6c57ab17599bac4a76f61cf4d
 /etc/mc/sfs.ini 0eef6fc48dfcdd07af9c15882e94e34c
Description: Midnight Commander - a powerful file manager
 GNU Midnight Commander is a text-mode full-screen file manager. It
 uses a two panel interface and a subshell for command execution. It
 includes an internal editor with syntax highlighting and an internal
 viewer with support for binary files. Also included is Virtual
 Filesystem (VFS), that allows files on remote systems (e.g. FTP, SSH
 servers) and files inside archives to be manipulated like real files.
```

Homepage: <http://www.midnight-commander.org>

- Odinstaluj pakiety

```
root@debian:~# dpkg -r mc
(Reading database ... 134813 files and directories currently installed.)
Removing mc (3:4.8.18-1) ...
update-alternatives: using /usr/bin/vim.tiny to provide /usr/bin/view (view) in auto
mode
Processing triggers for gnome-menus (3.13.3-9) ...
Processing triggers for desktop-file-utils (0.23-1) ...
Processing triggers for mime-support (3.60) ...
```

```
root@debian:~# dpkg -r mc-data
(Reading database ... 134723 files and directories currently installed.)
Removing mc-data (3:4.8.18-1) ...
Processing triggers for man-db (2.7.6.1-2) ...
Processing triggers for hicolor-icon-theme (0.15-1) ...
```

- Sprawdź działanie polecenia **synaptic**