

# **miktex\_update**

**v1.4**

**A cygwin bash script for automatic update and installation of new packages of a MiKTeX installation**

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The `miktex_update` script offers automatic updating and/or installing of new packages of an existing MiKTeX installation. It supports direct connection with online repositories of the MiKTeX server network, as well as synchronizing a local repository (CTAN) with following update. In the end you should have an up-to-date and complete MiKTeX installation.

## miktex\_update

The script offers the following options:

-h	--help	will print a help statement
-V	--version	will print the version number of miktex_update
-a	--admin	will run mpm in administrative mode (MiKTeX v2.8+)
-b	--broadband	will optimize the text output in LOCAL mode for broadband download. Support for partial package download will be switched off!
-v	--verbose	will lead to a more verbose text output in the process of updating and installing new packages
-n	--nolist	will not print the list of updatable and/or installable packages
-I	--interactive	the script will ask, if you want to update and/or install packages (-n, --nolist will be switched off)
-s	--searchonly	will only list packages, but not update or install them
-u	--update	will only update already installed packages
-i	--install	will only install new respectively uninstalled packages
-l	--local	will set the update mode to LOCAL and synchronize the local repository (default or specified with option -r) with CTAN
-o	--online	will set the update mode to ONLINE. You can specify an online repository with option -r. Without doing so, a repository from the MiKTeX server network will be picked by random
-r	--repository	specifies the local or online repository for updating and installing new packages
-R	--rsync	specifies the URL of the rsync server

Example calls:

```
miktex_update -lvb
```

```
miktex_update -lvI -r E:/MiKTeXRepo -R rsync://dante.ctan.org/CTAN/
```

```
miktex_update -o --verbose
```

```
miktex_update -o -r http://ftp.nara.wide.ad.jp/pub/TeX/CTAN/  
systems/win32/miktex/tm/packages/
```

## References

- [Boc04] Bock, Wolfgang: *Shellprogrammierung*. 1. Auflage. bhv, 2004. – ISBN 3-8266-8136-3
- [KM03] Kohm, Markus ; Morawski, Jens-Uwe: *Koma-Script*. 1. Auflage. Lehmanns Fachbuchhandlung, 2003. – ISBN 3-936427-45-3
- [RO06] Rahtz, Sebastian ; Oberdiek, Heiko: *Hypertext marks in L<sup>A</sup>T<sub>E</sub>X : a manual for hyperref*. 2006. –  
TEXMF://doc/latex/hyperref/manual.pdf
- [Sch07] Schenk, Christian: *MiKTeX 2.7 Manual, Chapter 6. Programs, mpm*. 2007. – TEXMF://doc/miktex/manual/mpm.html