

Administrative Tools

Command-line utilities

*mysql2mysql myisamchk myisamlog myisampack mysql_config_editor mysql_install_db mysqlaccess
mysqladmin mysqlbinlog mysqlbug mysqlcheck mysqldump mysqlhotcopy mysqlimport mysqlmanager
mysqlpump mysqlshow mysqlshutdown mysqlslap mysqlwatch my_print_defaults perror replace*

GUI Utilities

MySQL Workbench phpMyAdmin Third-party tools

Command-line utilities

MySQL ships with many command-line database administration utilities:

Table 18-1: MySQL 5&6 Command-line Utilities under Linux/Unix and Windows

<i>Utility</i>	<i>Linux/Unix</i>	<i>Windows</i>	<i>Reads Option File</i>
<i>mysql2mysql</i>	Yes	No	No
<i>myisamchk</i>	Yes	Yes	Yes
<i>myisamlog</i>	Yes	Yes	Yes
<i>myisampack</i>	Yes	Yes	Yes
<i>mysql_config_editor</i>	Since 5.6.6	Since 5.6.6	Yes
<i>mysql_install_db</i>	to 5.7.5	No	No
<i>mysql_upgrade</i>	Since 5.0.19/5.1.7	Yes	No
<i>mysqlaccess</i>	Before 5.7	No	No
<i>mysqladmin</i>	Yes	Yes	Yes
<i>mysqlbinlog</i>	Yes	Yes	No
<i>mysqlbug</i>	Yes	Yes	No
<i>mysqlcheck</i>	Yes	Yes	Yes
<i>mysqldump</i>	Yes	Yes	Yes
<i>mysqlhotcopy</i>	Yes	Yes	Yes
<i>mysqlimport</i>	Yes	Yes	Yes
<i>mysqlmanager</i>	discontinued 5.4, 6.0.5	discontinued 5.4, 6.0.5	Yes
<i>mysql proxy (Ch 3)</i>	Yes	Yes	No
<i>mysqlpump</i>	Since 5.7.8	Since 5.7.8	Yes
<i>mysqlshow</i>	Yes	Yes	Yes
<i>mysqlshutdown</i>	No	To 5.0.5	No
<i>mysqlslap</i>	5.1.4	5.1.4	Yes
<i>mysqlwatch</i>	No	To 5.0.5	No
<i>my_print_defaults</i>	Yes	Yes	Yes
<i>pack_isam</i>	Yes	Yes	Yes
<i>perror</i>	Yes	Yes	No
<i>replace</i>	Yes	Yes	No

In mid-2010 *MySQL Workbench* replaced all previous GUI admin utilities. There is also since 5.5 a downloadable *utility pack* of tools to compare, clone and export databases; report database disk usage; check *.frm* and index files; do DDL REGEX searches; search and stop query processes; clone user accounts; for replication do setup, administer and troubleshoot, set up automatic failover and round-robin, check consistency; for the server, clone, report, monitor the audit log. And *Fabric* manages server farms.

Command-line utility syntax and option files

Utilities that read option files generally do so under the conventions described in *Chapter 3 (Using option files)*. They read from the `[client]` section of these files, and in addition from an options file section named after themselves, so for example *mysqladmin* reads from a `[mysqladmin]` section, if present. Options are single words, for example `check`, or hyphenated words, for example `update-state`. If the option sets a variable, the syntax is the same as for the server:

```
varName=value
```

You can also use command-line arguments to tell these utilities which configuration file(s) to read, or to read no configuration file at all:

```
--defaults-file=fileName
```

This tells the utility to read options from `fileName`.

```
--defaults-extra-file=fileName
```

This tells the utility to read `fileName` after reading the global option file(s).

```
--no-defaults
```

This tells the utility to read no option file.

Generally, utilities that read option files also accept command-line arguments which are those same options prefixed with a double hyphen, for example `--check`, `--update-state`, or `--varname=value`. Often the program recognises one-character abbreviations of such commands, for example `-c` for `--check`, `-U` for `--update-state`, and `-O` for the deprecated syntax `--set-variable=varName=value`. These abbreviations can be concatenated, for example `-cU`. You can also instruct the programs to simply print help, arguments or version information, then exit:

```
?, --help
```

Display help and exit.

```
--print-defaults
```

Display the options that would be in force without additional arguments, then exit (not *mysqlhotcopy*).

```
-V, --version
```

Display version information and exit.

Since 5.1.21, *mysql*, *mysqladmin*, *mysqlbinlog*, *mysqlcheck*, *mysqldump*, *mysqlimport*, *mysqlshow*, *mysqlslap*, *mysqltest* and *mysql_upgrade* accept the options `--debug-check` (show debug info on exit) and `--debug-info` (also show CPU and memory statistics). Since 5.5.8, *mysql*, *mysqladmin*, *mysqlbinlog*, *mysqlcheck*, *mysqldump*, *mysqlimport* and *mysqlshow* accept `--bind-address=ipaddr` to select a network interface.

To read the rest of this and other chapters, *buy a copy of the book*

