Zypper Cheat Sheet

More Information:
https://en.opensuse.org/SDB:Zypper_usage or type `man zypper` on a terminal

For Zypper version 1.0.9

Basic Help

```
zypper #list the available global options and commands
zypper help [command] #Print help for a specific command
zypper shell or zypper sh #Open a zypper shell session
```

Repository Management

Listing Defined Repositories

```
zypper repos or zypper lr
```

Examples:

```
zypper lr -u #include repo URI on the table
zypper lr -P #include repo priority and sort by it
```

Refreshing Repositories

```
zypper refresh or zypper ref
```

Examples:

```
zypper ref packman main #specify repos to be updated
zypper ref -f upd            #force update of repo 'upd'
```

Modifying Repositories

```
zypper modifyrepo or zypper mr
```

Examples:

```
zypper mr -d 6 #disable repo #6
zypper mr -rk -p 70 upd #enable autorefresh and rpm
   files 'caching' for 'upd' repo and set its priority to 70
zypper mr -Ka #disable rpm files caching for all repos
zypper mr -kt #enable rpm files caching for remote repos
```

Adding Repositories

```
zypper addrepo or zypper ar #followed by the repo url and alias
```

Example:

```
zypper ar http://download.opensuse.org/update/11.1/ update
```

Removing Repositories

```
zypper removerepo or zypper rr
```

Examples:

```
zypper rr packman main
```

Renaming Repositories (for the alias only)

```
zypper namerepo or zypper nr
```

Examples:

```
zypper nr 3 upd
```

Export/Import Repositories

```
zypper repos --export or zypper lr -e
```

Examples:

```
zypper lr --export backups/repos/foo.repo
zypper ar backups/repos/foo.repo #import
```

Package Management

Selecting Packages

By capability name:

```
zypper in 'perl(Log::Log4perl)'
zypper in qt
```

By capability name and/or architecture and/or version

```
zypper in 'zypper<0.12.10'
zypper in zypper.i586=0.12.11
```

By exact package name (--name)

```
zypper in -n ftp
```

By exact package name and repository (implies --name)

```
zypper in factory:zypper
```

By package name using wildcards

```
zypper in yast*ftp*
```

By specifying a .rpm file to install

```
zypper in skype-2.0.0.72-suse.i586.rpm
```

Installing Packages

```
zypper install or zypper in
```

Examples:

```
zypper install git
```

By capability they provide

```
zypper in MozillaFirefox \< 3
```

Others

```
zypper in yast*                      #install all yast modules
zypper in -t pattern lamp_server #install lamp_server
   pattern (packages needed for a LAMP server)
zypper in vim -emacs #install vim and remove emacs
zypper in amarok upd:libxine1 #install libxine1 from upd
```

Removing Packages

```
zypper remove or zypper rm
```

Examples:

```
zypper remove sqlite
```

Source Packages and Build Dependencies

```
zypper source-install or zypper si
```

Examples:

```
zypper si zypper
```

Install only the source package

```
zypper in -D zypper
```

Install only the build dependencies

```
zypper in -d zypper
```

Updating Packages

```
zypper update or zypper up
```

Examples:

```
zypper up #update all installed packages
   with newer version as far as possible
zypper up libzypp zypper #update libzypp
   and zypper
zypper in sqlite3 #update sqlite3 or install
   if not yet installed
```

Zypper in Scripts and Applications

Non Interactive Mode

```
zypper --non-interactive
```

Examples:

```
zypper --non-interactive patch #skips all interactive
patches which would require user confirmation
```

No GPG Checks Mode

```
zypper --no-gpg-checks
```

Auto-agree with Licenses

```
zypper --auto-agree-with-licenses
```

Quiet Output

```
zypper --quiet
```

XML Output

```
zypper --xmlout
```

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Querying

Searching Packages

zypper search or zypper se

Examples:

zypper se -dC --match-words RSI #look for RSI acronym (case-sensitively), also in summaries and descriptions
zypper se 'yast*' #show all packages starting with 'yast'
zypper se -r upd #list all packages from 'upd' repository
zypper se -i sqlite #show all 'sqlite' installed packages
zypper se -t pattern -r upd #list all patterns available in the 'upd' repository

Getting Information about Packages

zypper info or zypper if

Examples:

zypper info amarok
zypper info -t patch amarok #show info for 'amarok' patch
zypper patch-info amarok #same as above
zypper info -t pattern lamp_server #info 'lamp_server' pattern

Getting Information about Dependencies

zypper what-provides or zypper wp

Examples:

zypper wp firefox

Utilities

Verify Dependencies

zypper verify or zypper ve

Note:

This is useful in cases of a broken system

Install New Recommended Packages

zypper install-new-recommends or zypper inr

Package Locks

Lock Packages

zypper addlock or zypper al

Examples:

zypper al 'yast2*' #lock all packages starting with 'yast2'

Remove Locks

zypper removelock or zypper rl

Examples:

zypper rl 'yast2*' #remove locks to all packages starting with 'yast2'

List Locks

zypper locks or zypper ll

Update Management

Listing Needed Patches

zypper list-patches or zypper lp

Applying Patches

zypper patch

Listing All Patches

zypper patches

Checking Patches

zypper patch-check or zypper pchk

Getting Information About Patches

zypper patch-info

zypper info -t patch

Packages Updates

zypper list-updates or zypper lu

zypper update or zypper up

Distribution Upgrade

zypper dist-upgrade or zypper dup

Note:

When doing a distribution update, the best is to work only with the repositories of the distribution you want to install.

Vocabulary

Repositories

HTTP or FTP server, DVD, or a folder on a local disc. where a group or set of packages are located.

Resource Identfiers (URI)

To specify locations of repositories or other resources (RPM files, .repo files) you can use any type of URIs supported by libzypp. See http://en.opensuse.org/Libzypp/URI for a complete list and usage examples.

Refresh

Refreshing a repository means downloading metadata of packages from the medium (if needed), storing it in local cache (typically under /var/cache/zypp/raw/<alias> directory) and preparsing the metadata into .solv files (building the solv cache), typically under /var/cache/zypp/solv/<alias>.

Services

Services are one level above repositories and serve to manage repositories or to do some special tasks. Libzypp currently supports only one type of services, the Repository Index Service (RIS).

Package Types

zypper works with several types of resource objects, called resolvables. A resolvable is a package, patch, pattern, or a product.
package - an ordinary RPM package
patch - update of one or more packages.
pattern - group of packages required or recommended to install some functionality
product - group of packages which are necessary to install a product