zypper openSUSE package manager

CONCEPTS

Every command has a short alias: in, rm, se, if, up, lu, lr, ar, ref, pch. Global options such as -n and --no-refresh go before the command.

Repositories /etc/zypp/repos.d
↓ refresh
Solver libzypp, one transaction
↓ confirm, download
RPM transaction install / remove / update
↓ logged
History /var/log/zypp/history

update only moves to newer versions inside the current repos and never changes vendor or removes packages. dup (dist-upgrade) may switch vendor, downgrade or remove: use it on Tumbleweed and for release upgrades.

UPDATE AND UPGRADE

zypper lu
List available updates

sudo zypper up
Update all installed packages

sudo zypper up *<pkg>*
Update one package

sudo zypper dup
Distribution upgrade (full sync)

sudo zypper dup --from *<repo>*
Upgrade only from a given repo

sudo zypper dup --releasever *<ver>*
Switch release during upgrade

zypper lp
List needed patches

zypper pchk
Exit 100/101 if patches pending

sudo zypper patch
Apply all needed patches

sudo zypper patch --category security
Only security patches

zypper lp --cve=*<CVE-ID>*
Patches for a CVE

UPDATE AND UPGRADE (cont.)

sudo zypper up -D
Dry run, change nothing

sudo zypper -n up
No prompts, for scripts

INSTALL AND REMOVE

sudo zypper in *<pkg>*
Install a package

sudo zypper in *<pkg1>* *<pkg2>*
Install several at once

sudo zypper in -y *<pkg>*
Install without asking

sudo zypper in --no-recommends *<pkg>*
Skip recommended extras

sudo zypper in -r *<repo>* *<pkg>*
Install from one repo

sudo zypper in *<name>*=*<ver>*
Install a specific version

sudo zypper in -f *<pkg>*
Reinstall a package

sudo zypper in *<file>*.rpm
Install a local RPM

sudo zypper in -D *<pkg>*
Dry run the install

sudo zypper in -t pattern *<name>*
Install a pattern

sudo zypper rm *<pkg>*
Remove a package

sudo zypper rm -u *<pkg>*
Remove with unused dependencies

sudo zypper purge-kernels
Remove old kernels

SEARCH AND INSPECT

zypper se *<term>*
Search names and summaries

zypper se -i *<term>*
Search installed only

zypper se -s *<term>*
Show versions and repos

zypper se -x *<name>*
Exact name match

SEARCH AND INSPECT (cont.)

zypper se -d *<term>*
Search descriptions too

zypper se -f *<file>*
Which package lists this file

zypper wp *<file or cap>*
What provides this

zypper if *<pkg>*
Show package details

zypper if --requires *<pkg>*
List its dependencies

zypper pa --orphaned
Packages without a repo

zypper pt
List patterns

REPOSITORIES

zypper lr
List repositories

zypper lr -d
Repos with URI, priority, refresh

sudo zypper ar -f *<url>* *<alias>*
Add a repo with autorefresh

sudo zypper ar -p *<n>* *<url>* *<alias>*
Add repo with priority

sudo zypper ar *<file>*.repo
Add repos from a .repo file

sudo zypper rr *<alias>*
Remove a repository

sudo zypper mr -d *<alias>*
Disable a repository

sudo zypper mr -e *<alias>*
Enable a repository

sudo zypper ref
Refresh all repos

LOCKS AND MAINTENANCE

sudo zypper al *<pkg>*
Lock a package

zypper ll
List locks

sudo zypper rl *<pkg or #>*
Remove a lock

zypper ps -s
Processes using outdated files