RPM RPM package tool

CONCEPTS

rpm handles single package files and the local database. It does not download or resolve dependencies: use dnf for that.

.rpm file rpm -qp reads it
↓ rpm -U
RPM database rpm -q reads it
↓ rpm -V
Files on disk checked against db

Packages are named name-version-release.arch, e.g. tree-2.2.1-4.fc44.x86_64. Any leading part works as a query: tree or tree-2.2.1.

Add -p to any query to read a .rpm file instead of the installed database.

QUERY INSTALLED

`rpm -qa`
List all installed packages

`rpm -qa '<pattern>'`
List packages matching a glob

`rpm -q <pkg>`
Is it installed, and which version

`rpm -qi <pkg>`
Show package details

`rpm -ql <pkg>`
List files of a package

`rpm -qf <path>`
Which package owns a file

`rpm -qc <pkg>`
List its config files

`rpm -qa --last`
Packages by install time, newest first

DEPENDENCIES

`rpm -qR <pkg>`
What a package requires

`rpm -q --provides <pkg>`
What a package provides

`rpm -q --whatprovides <cap>`
Which package provides a capability

DEPENDENCIES (cont.)

`rpm -q --whatrequires <cap>`
Which installed packages need it

PACKAGE FILES

`rpm -qip <file.rpm>`
Details of a package file

`rpm -qlp <file.rpm>`
List files in a package file

`rpm -qRp <file.rpm>`
Requirements of a package file

`rpm -qp --scripts <file.rpm>`
Scriptlets it would run

`rpm2cpio <file.rpm> | cpio -idmv`
Extract files without installing

INSTALL, UPGRADE, REMOVE

`sudo rpm -Uvh <file.rpm>`
Install or upgrade, with progress

`sudo rpm -ivh <file.rpm>`
Install, keep other versions

`sudo rpm -e <pkg>`
Remove a package

Prefer sudo dnf install ./<file.rpm>: it installs the local file and pulls in its dependencies.

VERIFY

`rpm -V <pkg>`
Check files against the database

`rpm -Va`
Verify every installed package

SIGNATURES AND KEYS

`sudo rpmkeys --import <key.asc>`
Trust a signing key

`rpmkeys -K <file.rpm>`
Check digests and signature

QUERY FORMAT

`rpm -q --qf '%{NAME} %{VERSION}\n' <pkg>`
Print chosen tags