DNF Fedora package manager

CONCEPTS

> Unlike apt, dnf refreshes stale metadata itself, so there is no separate update step. upgrade is the one that installs.

Repositories /etc/yum.repos.d
↓ `metadata cache`
Dependency solver one transaction
↓ `confirm, download`
RPM transaction install / remove
↓ `recorded`
History undo / rollback

UPDATE AND UPGRADE

`dnf check-update`
List updates; exit code 100 if any

`sudo dnf upgrade`
Upgrade all packages

`sudo dnf upgrade <pkg>`
Upgrade one package

`sudo dnf upgrade --security`
Only security advisories

`sudo dnf upgrade --refresh`
Expire metadata first

INSTALL AND REMOVE

`sudo dnf install <pkg>`
Install a package

`sudo dnf install <pkg1> <pkg2>`
Install several at once

`sudo dnf install ./<file>.rpm`
Install a local rpm with deps

`sudo dnf remove <pkg>`
Remove a package and dependents

`sudo dnf autoremove`
Remove orphaned dependencies

`sudo dnf reinstall <pkg>`
Reinstall a package

`sudo dnf downgrade <pkg>`
Go back to a lower version

INSTALL AND REMOVE (cont.)

`sudo dnf install <pkg>-<version>`
Install an exact version

`sudo dnf install --allowerasing <pkg>`
Let it remove conflicting packages

`sudo dnf install -y <pkg>`
Answer yes to prompts

`sudo dnf install --enablerepo=<id> <pkg>`
Use a repo for this run

SEARCH AND INSPECT

`dnf search <term>`
Search names and summaries

`dnf info <pkg>`
Show package details

`dnf provides <path>`
Find the package owning a file

`dnf list --installed`
List installed packages

`dnf repoquery -l <pkg>`
List files in a package

HISTORY AND UNDO

`dnf history`
List recent transactions

`dnf history info <id>`
Show what a transaction did

`sudo dnf history undo <id>`
Revert one transaction

`sudo dnf history undo last`
Revert the latest transaction

GROUPS AND MODULES

`sudo dnf group install <group>`
Install a whole group

REPOS AND CACHE

`dnf repolist`
List enabled repos