



DNF

Package manager from future

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Today's Topics

1. What is DNF?
2. DNF vs YUM
3. DNF vs PackageKit
4. Plugins
 - a. dnf-plugins-core
 - b. dnf-plugins-extras
5. What's next?

What is DNF?

What it is

- Package manager with number of features:
 - Fast (using fast C libraries, like libsolv)
 - Well documented
 - Not confusing people
 - ...

What it can

- dnf:
 - Install/Erase/Upgrade/Search packages
 - Plugins:
 - Install builddeps, debuginfo and more
- dnf-automatic:
 - Check/Install/Download all/security updates
 - Report results via Email/Motd/Stdio

DNF vs YUM

Differences

- No --skip-broken
- clean_requirements_on_remove on by default
- More faster
- Automatic making cache
- More cool plugins

DNF vs PackageKit

Differences

- admins hate packagekit
- users hate dnf
- PackageKit can run > 1 transaction at time
- DNF has easy-pluggable system
- PackageKit has D-Bus interface
- DNF can automate things (dnf-automatic)

Plugins

What plugins can do

- Run any commands on any of dnf CLI stage (config, resolved, sack, transaction)
- Add new commands and provide cool features

dnf-plugins-core

- For basic features
- Implemented:
 - debuginfo-install (eq: debuginfo-install)
 - repoquery (eq: repoquery)
 - download (equal: yumdownloader)
 - copr
 - needs_restarting
 - reposync
 - And much more

dnf-plugins-extras

- For any community plugins
- Implemented:
 - snapper

Why it is better

- We don't need write the same code for each plugin
- YUM vs DNF codelines (w/o comments):
 - 1286 vs 214 (repoquery)
 - 171 vs 73 (builddep)

What's next?

Our plans

- Fix bugs
- Implement RFEs (for example, rpmconf plugin)
- Get more developers (0.6.2->0.6.3 – 9 persons)
- Happy to review/merge Pull Requests
- Set as default package manager in Fedora 22!

Questions?



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