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# **dnf-plugins-extras Documentation**

*Release 4.0.9-1*

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This documents extras plugins of DNF:



Install packages according to Anaconda kickstart file.

### 1.1 Synopsis

```
dnf kickstart <ks-file>
```

### 1.2 Arguments

**<ks-file>** Path to the kickstart file.

### 1.3 Examples

**dnf kickstart mykickstart.ks** Install the packages defined in `mykickstart.ks`.

### 1.4 See Also

- [Anaconda Kickstart file documentation](#)





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## Extras DNF Plugins Release Notes

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## 2.1 4.0.9 Release Notes

- [doc] move manpages for plugins to “dnf-PLUGIN” (RhBug:1706386)
- Add offline-upgrade and offline-distro-sync commands
- [doc] Add description for new offline command
- Store reason for system-upgrade plugin
- Do not show Operation aborted as an error (RhBug:1797427)

Bugs fixed in 4.0.9:

- [Bug 1706386](#) - [RFE] Discoverable man page names for DNF plugins
- [Bug 1797427](#) - ‘dnf system-upgrade download’ misleading message

## 2.2 4.0.8 Release Notes

- Set `clean_requirements_on_remove=False` during remove (RhBug:1764169)

Bugs fixed in 4.0.8:

- [Bug 1764169](#) - system upgrade fails when packages need to be reinstalled, they are not downloaded

## 2.3 4.0.7 Release Notes

- Fix kickstart plugin
- Enable kickstart tests for PY3

## 2.4 4.0.6 Release Notes

- [system-upgrade] Use `--system-upgrade plymouth mode` (RhBug:1681584)
- [system-upgrade] Fix traceback caused by setting `gpgcheck` options (RhBug:1751103,1746346)
- Fix kickstart plugin (RhBug:1649093)
- [system-upgrade] Ensure identical transaction in download and update steps (RhBug:1758588)
- [system-upgrade] Provide distro specific url for help with system-upgrade

Bugs fixed in 4.0.6:

- Bug 1649093 - “dnf kickstart mykickstart.ks” crashes with `AttributeError: ‘BaseCli’ object has no attribute ‘install_grouplist’`
- Bug 1681584 - RFE: Use “`plymouth change-mode --system-upgrade`” on systems upgrades
- Bug 1758588 - dnf system-upgrade reboot fails due to `depresolv` difference with download
- Bug 1751103 - [abrt] dnf: `configure_upgrade(): system_upgrade.py:410:configure_upgrade:TypeError: argument of type ‘NoneType’ is not iterable`
- Bug 1746346 - dnf-system-upgrade.service traceback, breaks packagekit offline updates

## 2.5 4.0.5 Release Notes

- [system-upgrade] Save `gpgcheck` and `repo_gpgcheck` repo options (RhBug:1693677)
- Add `showvars` plugin for showing what DNF vars are set for the dnf runtime

Bugs fixed in 4.0.5:

- Bug 1693677 - dnf system-upgrade seems to ignore `--nogpgcheck` again

## 2.6 4.0.4 Release Notes

- Use improved config parser that preserves order of data
- [system-upgrade] Save `module_platform_id` option through system upgrade (RhBug:1656509)
- [system-upgrade] On modular systems, system upgrade requires the next `module_platform_id`

Bugs fixed in 4.0.4:

- Bug 1656509 - F29 to Rawhide (F30) upgrades fail, seems to be modularity-related

## 2.7 4.0.2 Release Notes

Minor changes

## 2.8 4.0.1 Release Notes

Bugs fixed in 4.0.1:

- Bug 1649745 - system-upgrade fails with JSONDecodeError if state file corrupt

## 2.9 4.0.0 Release Notes

Bugs fixed in 4.0.0:

- Bug 1638689 - dnf system-upgrade errors when excluding weak dependencies
- Bug 1643551 - [abrt] dnf: raw\_decode(): decoder.py:355:raw\_decode:json.decoder.JSONDecodeError: Expecting value: line 1 column 79 (char 78)

## 2.10 3.0.2 Release Notes

Bugs fixed in 3.0.2:

- Bug 1597657 - dnf-system-upgrade.service should have “After=system-update-pre.target” in its [Unit] section

## 2.11 3.0.1 Release Notes

Bugs fixed in 3.0.1:

- Bug 1603806 - dnf-plugins-extras: FTBFS in Fedora rawhide

## 2.12 3.0.0 Release Notes

Bugs fixed in 3.0.0:

- Bug 1531356 - dnf system-upgrade seems to ignore `--nogpgcheck`
- Bug 1513823 - System upgrade fails with non-standard download directory

## 2.13 2.0.5 Release Notes

Bugs fixed in 2.0.5:

- Bug 1519543 - Fedora 27 offline updates (gnome-software initiated) are failing

## 2.14 2.0.4 Release Notes

Bugs fixed in 2.0.4:

- Bug 1516234 - Upgrade is not possible if a kernel from rawhide has been used in the system
- Bug 1499284 - dnf crashes with CalledProcessError during upgrade F26->F27

## 2.15 2.0.3 Release Notes

Bugs fixed in 2.0.3:

- Bug 1473435 - [abrt] dnf: subprocess.py:271:check\_call:subprocess.CalledProcessError: Command '['journalctl', '-boot', 'd5318db518e541fcbc8ce51dd469c2f0']' returned non-zero exit status -13
- Bug 1490832 - dnf system-upgrade: dnf.exceptions.MarkingError: no package matched
- Bug 1492036 - system-upgrade fails to connect to online mirrors during upgrade when caches are missing

## 2.16 2.0.2 Release Notes

CLI changes in 2.0.2:

- Remove `--datadir` option from `system upgrade`

Bugs fixed in 2.0.2:

- Bug 1324151 - `dnf list installed | grep @@commandline` lists 1815 system packages
- Bug 1387136 - Local repository breaks upgrade
- Bug 1225442 - warn people if they want to upgrade a not fully updated system
- Bug 1248806 - DNF Snapper plugin takes snapshot after changes instead of before

## 2.17 2.0.1 Release Notes

Bugs fixed in 2.0.1:

- Bug 1379906 - Traceback when dependency of plugin is removed and plugin calls the dependency

## 2.18 2.0.0 Release Notes

- Moved `DEBUG` plugin from `dnf-plugins-extras` to `dnf-plugins-core`
- Moved `LEAVES` plugin from `dnf-plugins-extras` to `dnf-plugins-core`
- Moved `LOCAL` plugin from `dnf-plugins-extras` to `dnf-plugins-core`
- Moved `MIGRATE` plugin from `dnf-plugins-extras` to `dnf-plugins-core`
- Moved `NEEDS RESTARTING` plugin from `dnf-plugins-extras` to `dnf-plugins-core`
- Moved `REPOCLOSURE` plugin from `dnf-plugins-extras` to `dnf-plugins-core`
- Moved `REPOGRAPH` plugin from `dnf-plugins-extras` to `dnf-plugins-core`
- Moved `REPOMANAGE` plugin from `dnf-plugins-extras` to `dnf-plugins-core`
- Moved `SHOW LEAVES` plugin from `dnf-plugins-extras` to `dnf-plugins-core`
- Moved `VERSIONLOCK` plugin from `dnf-plugins-extras` to `dnf-plugins-core`

## 2.19 0.10.0 Release Notes

DNF 2.0 compatibility (not compatible with 1.x), bugfixes and performance improvements.

Incorporated system-upgrade plugin.

Bugs fixed in 0.10.0:

- Bug 1303983 - dnf repoclosure needs an arch flag
- Bug 1365698 - python3-dnf-plugins-extras-tracer depends on python2-tracer (instead of python3-tracer)
- Bug 1377742 - dnf repomanage writes too much to stdout
- Bug 1383603 - Cannot upgrade to dnf-2.0: python3-dnf-plugins-extras-common-0.0.12-4.fc25.noarch requires python3-dnf < 2.0

## 2.20 0.0.12 Release Notes

Bugfixes in local plugin. Fixes in packaging.

## 2.21 0.0.11 Release Notes

Bugfix in *DNF kickstart Plugin* packaging plugin.

## 2.22 0.0.10 Release Notes

Provides *DNF kickstart Plugin*. Bugfixes in some plugins.

Bugs fixed in 0.0.10:

- Bug 1263699 - dnf-plugin-snapper does not set cleanup type for snapshots
- Bug 1225894 - dnf-2 migrate: Error: Group 'fedora-release-nonproduct' does not exist.

## 2.23 0.0.9 Release Notes

Provides show-leaves and versionlock. Fixed some crashes in migrate and repomanage.

Bugs fixed in 0.0.9:

- Bug 1226607 - [abrt] dnf: subprocess.py:573:check\_output:CalledProcessError: Command '['u'/usr/bin/yum-deprecated', u'-q', u'group', u'list', u'installed', u'-C']' returned non-zero exit status 1
- Bug 1225282 - Hide warnings from yum when executed from dnf
- Bug 1230503 - [abrt] dnf: repomanage.py:65:run:ValueError: invalid literal for int() with base 10: 'KEEP'

## 2.24 0.0.8 Release Notes

Many fixes in migrate plugin. Few cleanups in packagingi, now you can install *dnf-command(migrate)* to get *dnf-plugins-extras-migrare* installed.

Bugs fixed in 0.0.8:

- Bug 1208773 - [RFE] Define virtual provides for DNF commands and suggest installing the appropriate one if a command was not found
- Bug 1211596 - local: Missing Requires: /usr/bin/createrepo\_c
- Bug 1214807 - “Malformed yum output” message when doing “dnf migrate”
- Bug 1223034 - [abrt] python-dnf: pycomp.py:88:write\_to\_file:UnicodeDecodeError: ‘ascii’ codec can’t decode byte 0xc3 in position 24: ordinal not in range(128)

## 2.25 0.0.7 Release Notes

Renamed orphans to leaves. Fixed some crashes in *DNF tracer Plugin*, migrate and local. Renamed `--repoid` to `--repo` in repoclosure and repograph. Old option saved for compatibility.

Bugs fixed in 0.0.7:

- Bug 1208614 - disabling the dnf local plugin causes dnf to crash
- Bug 1209864 - The orphans plugin reports things as orphans that aren’t
- Bug 1209043 - dnf migrate command fails

## 2.26 0.0.6 Release Notes

Provides migrate and orphans.

Bugs fixed in 0.0.6:

- Bug 1201471 - Tracer plugin ignores tracer errors

## 2.27 0.0.5 Release Notes

Adapt packaging to install Python 3 version for F23+. Provides: debug

Bugs fixed in 0.0.5:

- Bug 1187763 - [abrt] dnf: tracer.py:59:transaction:NameError: global name ‘installed’ is not defined
- Bug 1192779 - [abrt] python3-dnf: tracer.py:93:\_print\_output:TypeError: Type str doesn’t support the buffer API

## 2.28 0.0.4 Release Notes

Fixes in packaging, include man pages for plugins.

## 2.29 0.0.3 Release Notes

Trivial fixes in packaging, few improvements for plugins, tests for plugins. Provides: local, repograph and repoclosure.

Bugs fixed in 0.0.3:

- Bug 1177631 - [abrt] dnf: connection.py:641:call\_blocking:ValueError: Unable to guess signature from an empty dict
- Bug 991014 - [rfe] [plugins] yum-plugin-local

## 2.30 0.0.2 Release Notes

Provides repomanage, *DNF rpmconf Plugin* and *DNF tracer Plugin*.

Bugs fixed in 0.0.2:

- Bug 1048541 - [rfe] [plugins] manage local repo (yum-utils repomanage)

## 2.31 0.0.1 Release Notes

Provides *DNF snapper Plugin*.



Handles `.rpmnew`, `.rpmsave` and `.rpmorig` after transactions.

## 3.1 Configuration

`/etc/dnf/plugins/rpmconf.conf`

The minimal plugin configuration file should consists of `[main]` section with `enabled` parameter.:

```
[main]
enabled = 1
```

### 3.1.1 [main] section optional parameters

**frontend** string, default: `env`

Defines which frontend should be used for merging. For list of valid frontends see `rpmconf(8)`. When set to `env`, the command to use is taken from the environment variable `$MERGE`.

**diff** boolean, default: `False`

Defines whether plugin should only display file differences.

## 3.2 See Also

`rpmconf(8)`.



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## DNF showvars Plugin

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Display any defined DNF variables in sorted order. This plugin takes no arguments.

### 4.1 Synopsis

```
dnf showvars
```

### 4.2 Examples

```
[$[FrostyX ~]-> dnf showvars  
basearch=x86_64  
releasever=29  
[$[FrostyX ~]->
```

### 4.3 See Also

- **‘DNF Variable documentation <[https://dnf.readthedocs.io/en/latest/conf\\_ref.html#files](https://dnf.readthedocs.io/en/latest/conf_ref.html#files)>’**



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## DNF snapper Plugin

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Creates a pair of snapshots of root filesystem. One snapshot is created just before the transaction run (Pre). This means after a successful transaction check and successful transaction test. And another snapshot is created when the transaction has finished (Post). The user is not supposed to interact with the plugin in any way.

**Warning:** There is no mechanism to ensure data consistency during creating a snapshot. Files which are written at the same time as snapshot is created (eg. database files) can be corrupted or partially written in snapshot. Restoring such files will cause problems. Moreover, some system files must never be restored. Recommended is to only restore files that belong to the action you want to revert.



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## DNF system-upgrade Plugin

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### 6.1 Description

DNF system-upgrades plugin provides three commands: `system-upgrade`, `offline-upgrade`, and `offline-distro-sync`. Only `system-upgrade` command requires increase of distribution major version (`--releasever`) compared to installed version.

`dnf system-upgrade` can be used to upgrade a Fedora system to a new major release. It replaces `fedup` (the old Fedora Upgrade tool). Before you proceed ensure that your system is fully upgraded (`dnf --refresh upgrade`).

### 6.2 Synopsis

```
dnf system-upgrade download --releasever VERSION [OPTIONS]
```

On modular system, also set the `module_platform_id`. For example, for Fedora 30:

```
dnf system-upgrade download --releasever 30 [OPTIONS]
```

```
dnf system-upgrade reboot
```

```
dnf system-upgrade clean
```

```
dnf system-upgrade log
```

```
dnf system-upgrade log --number=<number>
```

```
dnf offline-upgrade download [OPTIONS]
```

```
dnf offline-upgrade reboot
```

```
dnf offline-upgrade clean
```

```
dnf offline-upgrade log
```

```
dnf offline-upgrade log --number=<number>
```

```
dnf offline-distro-sync download [OPTIONS]
```

```
dnf offline-distro-sync reboot
dnf offline-distro-sync clean
dnf offline-distro-sync log
dnf offline-distro-sync log --number=<number>
```

## 6.3 Subcommands

**download** Downloads everything needed to upgrade to a new major release.

**reboot** Prepares the system to perform the upgrade, and reboots to start the upgrade. This can only be used after the `download` command completes successfully.

**clean** Remove previously-downloaded data. This happens automatically at the end of a successful upgrade.

**log** Used to see a list of boots during which an upgrade was attempted, or show the logs from an upgrade attempt. The logs for one of the boots can be shown by specifying one of the numbers in the first column. Negative numbers can be used to number the boots from last to first. For example, `log --number=-1` can be used to see the logs for the last upgrade attempt.

## 6.4 Options

**--releasever=VERSION REQUIRED.** The version to upgrade to. Sets `$releasever` in all enabled repos. Usually a number, or `rawhide`.

**--downloaddir=<path>** Redirect download of packages to provided `<path>`. By default, packages are downloaded into (per repository created) subdirectories of `/var/lib/dnf/system-upgrade`.

**--distro-sync** Behave like `dnf distro-sync`: always install packages from the new release, even if they are older than the currently-installed version. This is the default behavior.

**--no-downgrade** Behave like `dnf update`: do not install packages from the new release if they are older than what is currently installed. This is the opposite of `--distro-sync`. If both are specified, the last option will be used. The option cannot be used with the “`offline-distro-sync`” command.

**--number** Applied with `log` subcommand will show the log specified by the number.

## 6.5 Notes

`dnf system-upgrade reboot` does not create a “System Upgrade” boot item. The upgrade will start regardless of which boot item is chosen.

Since this is a DNF plugin, options accepted by `dnf` are also valid here, such as `--allow-erasing`. See `dnf(8)` for more information.

The `fedup` command is not provided, not even as an alias for `dnf system-upgrade`.

## 6.6 Bugs

Upgrading from install media (e.g. a DVD or .iso file) currently requires the user to manually set up a DNF repo and `fstab` entry for the media.



## 6.7 Examples

### 6.7.1 Typical upgrade usage

```
dnf --refresh upgrade
dnf system-upgrade download --releasever 26
dnf system-upgrade reboot
```

### 6.7.2 Show logs from last upgrade attempt

```
dnf system-upgrade log --number=-1
```

## 6.8 Reporting Bugs

Bugs should be filed here:

<https://bugzilla.redhat.com/>

For more info on filing bugs, see the Fedora Project wiki:

[https://fedoraproject.org/wiki/How\\_to\\_file\\_a\\_bug\\_report](https://fedoraproject.org/wiki/How_to_file_a_bug_report)

[https://fedoraproject.org/wiki/Bugs\\_and\\_feature\\_requests](https://fedoraproject.org/wiki/Bugs_and_feature_requests)

Please include `/var/log/dnf.log` and the output of `dnf system-upgrade log --number=-1` (if applicable) in your bug reports.

Problems with dependency solving during download are best reported to the maintainers of the package(s) with the dependency problems.

Similarly, problems encountered on your system after the upgrade completes should be reported to the maintainers of the affected components. In other words: if (for example) KDE stops working, it's best if you report that to the KDE maintainers.

## 6.9 See Also

*dnf(8)*, *dnf.conf(5)*, *journalctl(1)*.

### 6.9.1 Project homepage

<https://github.com/rpm-software-management/dnf-plugins-extras>

## 6.10 Authors

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## 7.1 Description

Automatically pass all traffic in the tor network, and abort if tor is not running or blocked, to avoid any kind of identity leak.

However, if there is a specific proxy settings in the configuration, the plugin will not overwrite it, assuming that the user did set it on purpose.

## 7.2 Configuration

`/etc/dnf/plugins/torproxy.conf`

The minimal content of conf file should contain `main` sections with parameters `enabled` and `strict`, otherwise plugin will not work. If the `strict` parameter is set to `True`, torproxy plugin will halt DNF in the case of Tor network unavailability.:

```
[main]
enabled = true
strict = false
```

If you do not want to use the default setup of tor, ie running it on the localhost, you can also specify the port and host of the tor client in a `torproxy` section like this:

```
[torproxy]
port = 9050
host = tor.example.org
```



## 8.1 Plugin

Calls `tracer` after every successful transaction. It finds running applications which are outdated by transaction's packages.

There you can see DNF output with `dnf-plugins-extras-tracer` installed:

```

$[FrostyX ~]-> sudo dnf update vim-X11
...
Running transaction
  Upgrading      : vim-common-2:7.4.179-1.fc20.i686           1/6
  Upgrading      : vim-X11-2:7.4.179-1.fc20.i686             2/6
  Upgrading      : vim-enhanced-2:7.4.179-1.fc20.i686        3/6
  ...

Upgraded:
  vim-X11.i686 2:7.4.179-1.fc20          vim-common.i686 2:7.4.179-1.fc20
  vim-enhanced.i686 2:7.4.179-1.fc20

You should restart:
  gvim

Done!
```

It is a good idea to restart those applications, because they can be potentially dangerous. They can contain old security issues, which are fixed in new version.



## CHAPTER 9

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### See Also

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- [DNF project homepage](#)
- [Core DNF Plugins project homepage](#)
- [Extras DNF Plugins project homepage](#)
- [DNF documentation](#)
- [DNF Plugins Core documentation](#)
- [Hawkey documentation](#)





# CHAPTER 10

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## Indices and tables

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