

Yum Extension for Config5

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Chapter 1. Introduction

1.1. Overview

The Yum Extension is a simple wrapper around the **yum** command. It provides the `yum change` to efficiently install and uninstall RPM packages from Yum repositories with Config5.

1.2. Examples

Packages can be installed and uninstalled as shown in the following example spec file:

```
RedHatEnterpriseServer:
yum install gcc
yum uninstall sane
```

Chapter 2. Installation and Customization

2.1. Installation

This extension is contained in the archive `extensions/yum.tgz` which is part of the Config5 distribution. Simply extract this archive in the `deploy` directory.

2.1.1. Files

The following files are included in the archive:

- `etc/extensions.d/yum.pl`
- `lib/perl/Config5/Change/Extensions/Yum.pm`
- `lib/perl/Config5/Action/Extensions/Yum.pm`

2.2. Settings

This extension does not have any configurable settings.

Chapter 3. Changes

3.1. Changes

This extension provides the `yum change` which has two actions: `install` and `uninstall`.

3.1.1. yum install

The `install` action of the `yum change` will install a single RPM package.

Synopsis	<code>yum [-ntT] install package [repo]</code>
----------	--

The parameter *package* is the package name without version numbers. The optional parameter *repo* specifies a repository that will be enabled for the installation.

Example 3.1. Install

```
sample:
yum install gcc
yum install mplayer rpmforge
```

3.1.2. yum uninstall

The `uninstall` action of the `yum change` will uninstall the specified package.

Synopsis	<code>yum [-ntT] uninstall package</code>
----------	---

The parameter *package* is the package to uninstall.

Example 3.2. Uninstall

```
sample:
yum uninstall cups
```

3.2. Configuration Application

3.2.1. Phase

The `yum changes` are applied in the `packages` phase.

3.2.2. Order and Application

All `yum changes` of a pass are applied in the order the changes are encountered during the parsing of the `spec` files.

The extension caches package information when checking for packages that have to be installed or uninstalled. Mixing `yum` and `execute` changes to install or uninstall packages is not supported.

3.2.3. Trigger Flag

The the trigger flag for triggered changes is set when package is installed or uninstalled.

Appendix A. Error Messages

A.1. Configuration Data Errors

Configuration data errors are fatal, no changes will be done to the system.

Invalid action '...' in ...

The action must be `install` or `uninstall`.

A.2. Configuration Application Errors

The following errors are reported for changes as they are applied but do not interrupt the application of other changes.

Failed to ... package '*package*'

The named package could not be installed or uninstalled. Typically the package does not exist or there was an error with the **yum** command.