Package 'bspm'

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Type Package	
Title Bridge to System Package Manager	
Version 0.3.4	
Description Enables binary package installations on Linux distributions. Provides functions to manage packages via the distribution's package manager. Also provides transparent integration with R's install.packages() and a fallback mechanism. When installed as a system package, interacts with the system's package manager without requiring administrative privileges via an integrated D-Bus service; otherwise, uses sudo. Currently, the following backends are supported: DNF, APT.	
License MIT + file LICENSE	
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R topics documented:	
integration	2 2 3
Index	5

2 integration

bspm-package

bspm: Bridge to System Package Manager

Description

Enables binary package installations on Linux distributions. Provides functions to manage packages via the distribution's package manager. Also provides transparent integration with R's install.packages and a fallback mechanism. When installed as a system package, interacts with the system's package manager without requiring administrative privileges via an integrated D-Bus service; otherwise, uses sudo. Currently, the following backends are supported: DNF, APT.

Author(s)

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References

https://github.com/Enchufa2/bspm

See Also

manager, integration

integration

Enable/Disable Bridge to System Package Manager

Description

Functions to enable or disable the integration of install_sys into install.packages. When enabled, packages are installed transparently from system repositories if available, and from the configured R repositories if not.

Usage

```
enable()
disable()
```

Details

To enable **bspm** system-wide by default, include the following:

```
suppressMessages(bspm::enable())
```

into the Rprofile.site file. To enable it just for a particular user, move that line to the user's ~/.Rprofile instead.

manager 3

See Also

manager

Examples

```
## Not run:
# install 'units' and all its dependencies from the system repos
bspm::enable()
install.packages("units")

# install packages again from CRAN
bspm::disable()
install.packages("errors")

## End(Not run)
```

manager

Manage Packages from System Repositories

Description

Talk to the system package manager to install/remove... packages from system repositories.

Usage

```
install_sys(pkgs)
remove_sys(pkgs)
discover()
```

Arguments

pkgs

character vector of names of packages.

Details

If R runs with root privileges (e.g., in a docker container), these functions talk directly to the system package manager. Regular users are also able to install/remove packages without any administrative permission via the accompanying D-Bus service if **bspm** is installed as a system package. If not, these methods fall back on using sudo to elevate permissions (or pkexec in GUIs such as RStudio) in interactive sessions. Note that, if you want to fall back to sudo in a non-interactive session, you need to set options(bspm.sudo=TRUE).

The discover method is only needed when e.g. a new repository is added that contains packages with different prefixes (for example, your system repositories may provide packages called r-cran-* and r-bioc-* and then you add a new repository that provides packages called r-github-*). Otherwise, it will not have any effect besides regenerating the internal configuration files.

4 manager

Value

Functions install_sys and remove_sys return, invisibly, a character vector of the names of packages not available in the system.

See Also

```
integration
```

Examples

```
## Not run:
# install 'units' and all its dependencies from the system repos
bspm::install_sys("units")

# now remove it
bspm::remove_sys("units")

## End(Not run)
```

Index

```
bspm-package, 2
disable (integration), 2
discover (manager), 3
enable (integration), 2
install.packages, 2
install_sys, 2
install_sys (manager), 3
integration, 2, 2, 4
manager, 2, 3, 3
remove_sys (manager), 3
```