Package ‘AnVILPublish’

May 29, 2024

Title  Publish Packages and Other Resources to AnVIL Workspaces

Version  1.14.0

Description  Use this package to create or update AnVIL workspaces from resources such as R / Bioconductor packages. The metadata about the package (e.g., select information from the package DESCRIPTION file and from vignette YAML headings) are used to populate the ‘DASHBOARD’. Vignettes are translated to python notebooks ready for evaluation in AnVIL.

License  Artistic-2.0

Imports  AnVIL, BiocBaseUtils, BiocManager, httr, jsonlite, rmarkdown, yaml, readr, whisker, tools, utils, stats

Suggests  knitr, BiocStyle, testthat (>= 3.0.0)

biocViews  Infrastructure, Software

Encoding  UTF-8

Roxygen  list(markdown = TRUE)

RoxygenNote  7.2.3

VignetteBuilder  knitr

Config/testthat/edition  3

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### add_access

Add Bioconductor_User group to workspace access

**Description**

`add_access()` adds the Bioconductor_User group to a workspace with READER permissions. Users gain access to the workspace (and others) by being added to the Bioconductor_User group.

**Usage**

```r
add_access(namespace, name)
```

**Arguments**

- `namespace` character(1) namespace (billing account) under which the workspace belongs.
- `name` character(1) name of the workspace to add access credentials.

**Value**

`add_access()` returns TRUE, invisibly.

### as_notebook

Render vignettes as .ipynb notebooks

**Description**

`as_notebook()` renders Rmarkdown (.Rmd) or Quarto (.Qmd) vignettes as Jupyter (.ipynb) notebooks. The vignettes and notebooks are updated in an AnVIL workspace.

**Usage**

```r
as_notebook(
  rmd_paths,
  namespace,
  name,
  update = FALSE,
  type = c("ipynb", "rmd", "both"),
  quarto = c("render", "convert")
)
```
as_workspace

Arguments

rmd_paths character() paths to Rmd or Qmd files.
namespace character(1) AnVIL namespace (billing project) to be used.
name character(1) AnVIL workspace name.
update logical(1) Update (over-write any similarly named notebooks) an existing workspace? The default (FALSE) creates notebooks locally, e.g., for previewing via jupyter notebook *.ipynb.
type character(1) The type of notebook to be copied to the workspace. Must be one of ipynb, rmd, or both. ipynb copies only the Jupyter notebook. rmd copies Rmarkdown and Quarto vignettes. both copies both notebooks and vignettes.
quarto character(1) If the program Quarto is installed, this parameter indicates whether the .Rmd files will be rendered or converted. See vignette for more details.

Details

See the vignette "Publishing R / Bioconductor Packages To AnVIL Workspaces" for details on the conversion process; best results are obtained when Quarto software is available.

Value

as_notebook() returns the paths to the local (if update = FALSE) or the workspace notebooks.

Value

as_notebook() returns the paths to the local (if update = FALSE) or the workspace notebooks.

Usage

as_workspace(
  path,
  namespace,
  name = NULL,
  create = FALSE,
  update = FALSE,
  use_readme = FALSE,
  type = c("ipynb", "rmd", "both"),
  quarto = c("render", "convert")
)

Description

as_workspace() renders a package source tree (e.g., from a git checkout) as an AnVIL workspace.
Arguments

- **path** character(1) path to the location of the package source code.
- **namespace** character(1) AnVIL namespace (billing project) to be used.
- **name** character(1) AnVIL workspace name.
- **create** logical(1) Create a new project?
- **update** logical(1) Update (over-write the existing DASHBOARD and any similarly named notebooks) an existing workspace? If neither create nor update is TRUE, the code to create a workspace is run but no output generated; this can be useful during debugging.
- **use_readme** logical(1) Defaults to FALSE; if TRUE the content of README.md in package top-level folder is used with the package DESCRIPTION version and provenance metadata for rendering in the workspace 'DASHBOARD'.
- **type** character(1) The type of notebook to be copied to the workspace. Must be one of ipynb, rmd, or both. ipynb copies only the Jupyter notebook. rmd copies Rmarkdown and Quarto vignettes. both copies both notebooks and vignettes.
- **quarto** character(1) If the program Quarto is installed, this parameter indicates whether the .Rmd files will be rendered or converted. See vignette for more details.

Details

Information from the DESCRIPTION file and Rmd YAML are used to populate the 'DASHBOARD' tab. See ?as_notebook() for details on how vignettes are processed to notebooks.

Value

as_workspace() returns the URL of the updated workspace, invisibly.
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