Package 'AnVILPublish'

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Title Publish Packages and Other Resources to AnVIL Workspaces

Version 1.22.0

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.

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

Suggests knitr, BiocStyle, GCPtools, testthat (>= 3.0.0)

biocViews Infrastructure, Software

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

VignetteBuilder knitr

Config/testthat/edition 3

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Author Marcel Ramos [aut, cre] (ORCID: <https://orcid.org/0000-0002-3242-0582>), Martin Morgan [aut] (ORCID: <https://orcid.org/0000-0002-5874-8148>), Kayla Interdonato [aut], Vincent Carey [ctb] (ORCID: <https://orcid.org/0000-0003-4046-0063>)

Maintainer Marcel Ramos <marcel.ramos@sph.cuny.edu>

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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

```
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 Juptyer (`.ipynb`) notebooks. The vignettes and notebooks are updated in an AnVIL workspace.

Usage

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

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 on 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.

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as_workspace *Render R packages as AnVIL workspaces*

Description

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

Usage

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

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 on 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.

---

create_workspace *Create an AnVIL Workspace*

Description

Call the Terra() API to create a new AnVIL workspace. This is a helper function for as_workspace(), but can be used directly if you want to create a workspace without populating it with content from an R package. This is typically used by developers who want to create a workspace and then run other functions to populate it with content, e.g., importing data into the workspace.

Usage

```
create_workspace(namespace, name)
```

Arguments

namespace	character(1) AnVIL namespace (billing project) to be used.
name	character(1) AnVIL workspace name.

Value

`create_workspace()` returns `TRUE` invisibly if the workspace was created successfully; otherwise, an error is raised.

Examples

```
create_workspace("my-namespace", "my-workspace")
```

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