Package: AnVILPublish (via r-universe)

May 29, 2026

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

Date 2026-04-24

Config/pak/sysreqs
cmake make libicu-dev libsecret-1-dev libuv1-dev libssl-dev libx11-dev zlib1g-dev

Repository https://bioc-release.r-universe.dev

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RemoteUrl https://github.com/bioc/AnVILPublish

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Contents

`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.

`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")
```

Index