

# Package: AnVILBase (via r-universe)

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**Title** Generic functions for interacting with the AnVIL ecosystem

**Version** 1.6.0

**Description** Provides generic functions for interacting with the AnVIL ecosystem. Packages that use either GCP or Azure in AnVIL are built on top of AnVILBase. Extension packages will provide methods for interacting with other cloud providers.

**License** Artistic-2.0

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'avtable-generics.R' 'avtable-methods.R'  
'avworkflow-generics.R' 'avworkflow-methods.R'  
'avworkspace-generics.R' 'avworkspace-methods.R'  
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AnVILBase-package      *The AnVILBase package*

---

## Description

The AnVILBase package defines S4 generics for the AnVIL package.

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- NIH NHGRI U24HG004059 [funder]

**See Also**

Useful links:

- <https://github.com/Bioconductor/AnVILBase>
- Report bugs at <https://github.com/Bioconductor/AnVILBase/issues>

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AnVILBase-generics      *All the generics for AnVIL*

---

**Description**

These are the generics to be used by the AnVIL package.

**Usage**

`avcopy(..., platform)`

`avlist(..., platform)`

`avremove(..., platform)`

`avbackup(..., platform)`

`avrestore(..., platform)`

`avstorage(..., platform)`

**Arguments**

<code>...</code>	Arguments passed to the methods.
<code>platform</code>	A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

**Value**

called for the side effect of registering generic functions

**See Also**

[avworkspace-generics](#), [avtable-generics](#), [avworkflow-generics](#)

**Examples**

```
getGeneric("avcopy")
```

## Description

The AnVILBase package defines S4 methods for the AnVIL package. These methods are defined for the 'missing' and 'ANY' signatures.

## Usage

```
## S4 method for signature 'missing'
avcopy(..., platform)

## S4 method for signature 'ANY'
avcopy(..., platform)

## S4 method for signature 'missing'
avlist(..., platform)

## S4 method for signature 'ANY'
avlist(..., platform)

## S4 method for signature 'missing'
avremove(..., platform)

## S4 method for signature 'ANY'
avremove(..., platform)

## S4 method for signature 'missing'
avbackup(..., platform)

## S4 method for signature 'ANY'
avbackup(..., platform)

## S4 method for signature 'missing'
avrestore(..., platform)

## S4 method for signature 'ANY'
avrestore(..., platform)

## S4 method for signature 'missing'
avstorage(..., platform)

## S4 method for signature 'ANY'
avstorage(..., platform)
```

### Arguments

- ... Arguments passed to the methods.
- platform A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

### Value

Methods for the 'missing' and 'ANY' signatures provide a way to redirect calls to the appropriate method for the current cloud platform.

### Functions

- `avcopy(missing)`: Copy a file from the cloud
- `avcopy(ANY)`: Copy a file from the cloud
- `avlist(missing)`: List files in the cloud
- `avlist(ANY)`: List files in the cloud
- `avremove(missing)`: Remove a file from the cloud
- `avremove(ANY)`: Remove a file from the cloud
- `avbackup(missing)`: Backup a file to the cloud
- `avbackup(ANY)`: Backup a file to the cloud
- `avrestore(missing)`: Restore a file from the cloud
- `avrestore(ANY)`: Restore a file from the cloud
- `avstorage(missing)`: Get the storage location
- `avstorage(ANY)`: Get the storage location

### Examples

```
findMethods("avcopy")
getMethod("avcopy", c(platform = "missing"))
```

### Description

- `avstop_for_status` - Check HTTP status code and raise error when less than 400.
- `avworkspaces_clean` - Clean workspace information

**Usage**

```
avstop_for_status(response, op)

avworkspaces_clean(.data)
```

**Arguments**

response	Response object from httr
op	Operation that was attempted
.data	A tibble with workspace information

**Value**

avstop\_for\_status - response if status code less than 400 otherwise throw an error  
 avworkspaces\_clean - A cleaned tibble with workspace information

**Examples**

```
if (interactive()) {
  test <- httr::GET("http://google.com/")
  avstop_for_status(test, "google")
}
```

---

avnotebooks-generics *All the avnotebooks generics for AnVIL*

---

**Description**

These are the generics to be used by the AnVIL package.

**Usage**

```
avnotebooks(..., platform)

avnotebooks_localize(..., platform)

avnotebooks_delocalize(..., platform)
```

**Arguments**

...	Arguments passed to the methods.
platform	A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

**Value**

called for the side effect of registering generic functions

**See Also**

[AnVILBase-generics](#), [avworkspace-generics](#), [avtable-generics](#), [avworkflow-generics](#)

**Examples**

```
getGeneric("avnotebooks")
```

---

avnotebooks-methods    *All the notebook type methods for AnVIL*

---

**Description**

These are the methods to be used by the AnVIL package.

**Usage**

```
## S4 method for signature 'missing'  
avnotebooks(..., platform)
```

```
## S4 method for signature 'ANY'  
avnotebooks(..., platform)
```

```
## S4 method for signature 'missing'  
avnotebooks_localize(..., platform)
```

```
## S4 method for signature 'ANY'  
avnotebooks_localize(..., platform)
```

```
## S4 method for signature 'missing'  
avnotebooks_delocalize(..., platform)
```

```
## S4 method for signature 'ANY'  
avnotebooks_delocalize(..., platform)
```

**Arguments**

...	Arguments passed to the methods.
platform	A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

## Value

Methods for the 'missing' and 'ANY' signatures provide a way to redirect calls to the appropriate method for the current cloud platform.

## Functions

- `avnotebooks(missing)`: List the available notebooks in the current workspace
- `avnotebooks(ANY)`: List the available notebooks in the current workspace
- `avnotebooks_localize(missing)`: sync the contents of the workspace storage to the local file system
- `avnotebooks_localize(ANY)`: sync the contents of the workspace storage to the local file system
- `avnotebooks_delocalize(missing)`: sync the contents of the local file system to the workspace storage
- `avnotebooks_delocalize(ANY)`: sync the contents of the local file system to the workspace storage

## Examples

```
findMethods("avnotebooks")
getMethod("avnotebooks", c(platform = "missing"))
```

---

avtable-generics

*All the table type generics for AnVIL*

---

## Description

These are the generics to be used by the AnVIL package.

## Usage

```
avtable(..., platform)
avtables(..., platform)
avtable_import(..., platform)
avtable_import_set(..., platform)
avtable_delete(..., platform)
avtable_delete_values(..., platform)
```

**Arguments**

... Arguments passed to the methods.  
platform A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

**Value**

called for the side effect of registering generic functions

**See Also**

[AnVILBase-generics](#), [avworkspace-generics](#), [avworkflow-generics](#)

**Examples**

```
getGeneric("avtable")
```

---

avtable-methods      *The avtable methods for 'missing' and 'ANY' signatures*

---

**Description**

The AnVILBase package defines S4 methods for the AnVIL package. These methods are defined for the 'missing' and 'ANY' signatures.

**Usage**

```
## S4 method for signature 'missing'  
avtable(..., platform)  
  
## S4 method for signature 'ANY'  
avtable(..., platform)  
  
## S4 method for signature 'missing'  
avtables(..., platform)  
  
## S4 method for signature 'ANY'  
avtables(..., platform)  
  
## S4 method for signature 'missing'  
avtable_import(..., platform)  
  
## S4 method for signature 'ANY'  
avtable_import(..., platform)  
  
## S4 method for signature 'missing'
```

```

avtable_import_set(..., platform)

## S4 method for signature 'ANY'
avtable_import_set(..., platform)

## S4 method for signature 'missing'
avtable_delete(..., platform)

## S4 method for signature 'ANY'
avtable_delete(..., platform)

## S4 method for signature 'missing'
avtable_delete_values(..., platform)

## S4 method for signature 'ANY'
avtable_delete_values(..., platform)

```

### Arguments

...	Arguments passed to the methods.
platform	A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

### Value

Methods for the 'missing' and 'ANY' signatures provide a way to redirect calls to the appropriate method for the current cloud platform.

### Functions

- `avtable(missing)`: Show the contents of a particular table (entity / type) within a workspace.
- `avtable(ANY)`: Show the contents of a particular table (entity / type) within a workspace.
- `avtables(missing)`: List entities / types accross or within the current workspace respectively.
- `avtables(ANY)`: List entities / types accross or within the current workspace respectively.
- `avtable_import(missing)`: Upload a dataset to the DATA tab
- `avtable_import(ANY)`: Upload a dataset to the DATA tab
- `avtable_import_set(missing)`: Creates a grouping table for each distinct value in the column identified by set.
- `avtable_import_set(ANY)`: Creates a grouping table for each distinct value in the column identified by set.
- `avtable_delete(missing)`: Delete a table
- `avtable_delete(ANY)`: Delete a table
- `avtable_delete_values(missing)`: Delete a row in a table based on the key
- `avtable_delete_values(ANY)`: Delete a row in a table based on the key

## Examples

```
findMethods("avtable")
getMethod("avtable", c(platform = "missing"))
```

---

avworkflow-generics    *All the workflow type generics for AnVIL*

---

## Description

These are the generics to be used by the AnVIL package.

## Usage

```
avworkflow_jobs(..., platform)
```

## Arguments

...	Arguments passed to the methods.
platform	A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

## Value

called for the side effect of registering generic functions

## See Also

[AnVILBase-generics](#), [avworkspace-generics](#), [avtable-generics](#)

## Examples

```
getGeneric("avworkflow_jobs")
```

---

avworkflow-methods      *All the workflow type methods for AnVIL*

---

## Description

These are the methods to be used by the AnVIL package.

## Usage

```
## S4 method for signature 'missing'  
avworkflow_jobs(..., platform)
```

```
## S4 method for signature 'ANY'  
avworkflow_jobs(..., platform)
```

## Arguments

...	Arguments passed to the methods.
platform	A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

## Value

Methods for the 'missing' and 'ANY' signatures provide a way to redirect calls to the appropriate method for the current cloud platform.

## Functions

- `avworkflow_jobs(missing)`: Get the status of a workflow execution
- `avworkflow_jobs(ANY)`: Get the status of a workflow execution

## Examples

```
findMethods("avworkflow_jobs")  
getMethod("avworkflow_jobs", c(platform = "missing"))
```

---

avworkspace-generics *All the table type generics for AnVIL*

---

## Description

These are the generics to be used by the AnVIL package.

## Usage

```
avworkspace(..., platform)
avworkspaces(..., platform)
avworkspace_name(..., platform)
avworkspace_namespace(..., platform)
avworkspace_clone(..., platform)
```

## Arguments

...	Arguments passed to the methods.
platform	A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

## Value

called for the side effect of registering generic functions

## See Also

[AnVILBase-generics](#), [avtable-generics](#), [avworkflow-generics](#)

## Examples

```
getGeneric("avworkspace")
```

---

avworkspace-methods    *The avworkspace methods for 'missing' and 'ANY' signatures*

---

## Description

The AnVILBase package defines S4 methods for the AnVIL package. These methods are defined for the 'missing' and 'ANY' signatures.

## Usage

```
## S4 method for signature 'missing'  
avworkspace(..., platform)
```

```
## S4 method for signature 'ANY'  
avworkspace(..., platform)
```

```
## S4 method for signature 'missing'  
avworkspaces(..., platform)
```

```
## S4 method for signature 'ANY'  
avworkspaces(..., platform)
```

```
## S4 method for signature 'missing'  
avworkspace_name(..., platform)
```

```
## S4 method for signature 'ANY'  
avworkspace_name(..., platform)
```

```
## S4 method for signature 'missing'  
avworkspace_namespace(..., platform)
```

```
## S4 method for signature 'ANY'  
avworkspace_namespace(..., platform)
```

```
## S4 method for signature 'missing'  
avworkspace_clone(..., platform)
```

```
## S4 method for signature 'ANY'  
avworkspace_clone(..., platform)
```

## Arguments

...	Arguments passed to the methods.
platform	A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

**Value**

Methods for the 'missing' and 'ANY' signatures provide a way to redirect calls to the appropriate method for the current cloud platform.

**Functions**

- `avworkspace(missing)`: Get the current workspace namespace/name
- `avworkspace(ANY)`: Get the current workspace namespace/name
- `avworkspaces(missing)`: List workspaces
- `avworkspaces(ANY)`: List workspaces
- `avworkspace_name(missing)`: Get the name of the current workspace
- `avworkspace_name(ANY)`: Get the name of the current workspace
- `avworkspace_namespace(missing)`: Get the namespace of the current workspace
- `avworkspace_namespace(ANY)`: Get the namespace of the current workspace
- `avworkspace_clone(missing)`: Clone the current workspace
- `avworkspace_clone(ANY)`: Clone the current workspace

**Examples**

```
findMethods("avworkspace")
getMethod("avworkspace", c(platform = "missing"))
```

---

cloud_platform	<i>Cloud Platform Identifier</i>
----------------	----------------------------------

---

**Description**

`cloud_platform` calls the appropriate class constructor based on environment variables or options within the workspace. This function is used to determine the cloud platform to dispatch on for AnVIL methods. It returns an error when neither the Azure or Google Cloud environment variables are set. The `avplatform_namespace` function is a lower level helper to identify the platform based on environment variables or options. Generally, these functions are *not* meant to be used directly.

**Usage**

```
avplatform_namespace(default = "")
cloud_platform()
```

**Arguments**

default	character(1). The default cloud platform to use if no environment variables or options are set. The default is "".
---------	--

**Details**

When `GOOGLE_PROJECT` is set, the function returns an object of class `gcp`. When `WORKSPACE_ID` is set, the function returns an object of class `azure`. Otherwise, the function returns an error. The user may also add options to set a default cloud platform. For AnVIL instances running on Google Cloud, the user can set `options(GCLOUD_SDK_PATH = "/home/user/google-cloud-sdk")` to set the default cloud platform to `gcp`. For AnVIL instances running on Azure, the user can set `options(AnVILAz.workspace_id = "myworkspace")` to set the default cloud platform to `azure`. Note that the values provided are example values and should be replaced with verifiable values.

**Value**

For `avplatform_namespace`: A character string indicating the cloud platform derived from environment variables.

For `cloud_platform`: An instance of class `gcp` or `azure` based on environment variables or options set within the AnVIL workspace. For `avplatform_namespace`: A character string indicating the cloud platform.

**Examples**

```
avplatform_namespace()
if (interactive()) {
  cloud_platform()
}
```

---

has\_avworkspace-generics

*The generic for checking if the user is within an environment*

---

**Description**

These are generics to be used by the AnVILGCP and AnVILAz packages.

**Usage**

```
has_avworkspace(strict = FALSE, ..., platform)
```

**Arguments**

<code>strict</code>	logical(1) Whether to include a check for an existing <code>avworkspace_name()</code> setting. Default FALSE.
<code>...</code>	Arguments passed to the methods.
<code>platform</code>	A Platform derived class indicating the AnVIL environment, currently, <code>azure</code> and <code>gcp</code> classes are compatible.

**Value**

called for the side effect testing the workspace environment

**See Also**

[AnVILBase-generics](#), [avworkspace-generics](#), [avtable-generics](#)

**Examples**

```
getGeneric("has_avworkspace")
```

---

has\_avworkspace-methods

*The has\_avworkspace methods for missing and ANY signatures.*

---

**Description**

The AnVILBase package defines S4 methods for the AnVIL package. These methods are defined for the 'missing' and 'ANY' signatures.

**Usage**

```
## S4 method for signature 'missing'  
has_avworkspace(strict = FALSE, ..., platform)  
  
## S4 method for signature 'ANY'  
has_avworkspace(strict = FALSE, ..., platform)
```

**Arguments**

strict	logical(1) Whether to include a check for an existing avworkspace_name() setting. Default FALSE.
...	Arguments passed to the methods.
platform	A Platform derived class indicating the AnVIL environment, currently, azure and gcp classes are compatible.

**Value**

Methods for the 'missing' and 'ANY' signatures provide a way to redirect calls to the appropriate method for the current cloud platform.

**Functions**

- `has_avworkspace(missing)`: Check whether the current workspace is using either Azure or Google infrastructure.
- `has_avworkspace(ANY)`: Check whether the current workspace is using either Azure or Google infrastructure.

**Examples**

```
findMethods("has_avworkspace")
getMethod("has_avworkspace", c(platform = "missing"))
```

---

Platform-class	<i>Virtual Class for Platform</i>
----------------	-----------------------------------

---

**Description**

This is a virtual class for Platform objects. It is used to define the class hierarchy for Platform objects.

**Value**

Used mainly for inheritance.

---

Response	<i>Process service responses to tibble and other data structures.</i>
----------	---

---

**Description**

Process service responses to tibble and other data structures.

**Usage**

```
flatten(x)

## S4 method for signature 'response'
flatten(x)

## S4 method for signature 'response'
str(object)

## S3 method for class 'response'
as.list(x, ..., as = c("text", "raw", "parsed"))

## S4 method for signature 'httr2_response'
flatten(x)
```

**Arguments**

x	A response object returned by the service.
object	A response object returned by the service.
...	not currently used
as	character(1); one of 'raw', 'text', 'parsed'

**Value**

`flatten()` returns a tibble where each row corresponds to a top-level list element of the return value, and columns are the unlisted second and more-nested elements.

`str()` displays a compact representation of the list-like JSON response; it returns NULL.

`as.list()` returns the content of the web service request as a list.

**Functions**

- `flatten(response)`: Reduce httr response object to a two-dimensional table
- `str(response)`: Create a compact representation of the list-like JSON response
- `flatten(httr2_response)`: Reduce httr2 request responses to two-dimensional table form

**Author(s)**

M. Morgan, M. Ramos

**Examples**

```
if (GCPtools::gcloud_exists() && interactive()) {  
  library(AnVIL)  
  leonardo <- Leonardo()  
  leonardo$listRuntimes() |> flatten()  
  
  leonardo$getSystemStatus() |> str()  
  
  leonardo$getSystemStatus() |> as.list()  
}
```

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