Package 'bambooHR'

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```
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Title A Wrapper to the 'BambooHR' API
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Description Enables a user to consume the 'BambooHR' API endpoints using R. The
      actual URL of the API will depend on your company domain, and will be handled
      by the package automatically once you setup the config file. The API documentation
      can be found here <a href="https://documentation.bamboohr.com/docs">https://documentation.bamboohr.com/docs</a>>.
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build_url

Build URL Endpoints with Company Domain and API Version

Description

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Used to generate the base API request URL. URLs will start with "https://api.bamboohr.com/api/gateway.php/company_domawhich forms the base URL where a query string can then be appended to make the full request URL.

Usage

```
build_url(
  company_domain = .get_company_name(),
  api_version = "v1",
  base_url = "https://api.bamboohr.com/api/gateway.php"
)
```

Arguments

company_domain The subdomain used to access BambooHR. If you access BambooHR at https://mycompany.bamboohr.com. then the company_domain is "mycompany". Default value is obtained from options("bambooHR.company_name"). This can also be set in the config file using config_setup("api key", "company_domain").

api_version Version of API to use to make request. Default is "v1".

base_url URL to BambooHR API. Default is "https://api.bamboohr.com/api/gateway.php".

Value

character vector of URL with API version and company domain to give the base URL for API requests.

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config_setup	Create a JSON config file	

Description

Create a JSON config file

Usage

```
config_setup(apikey, companyname, conffile, verbose = TRUE)
```

Arguments

apikey API key to access the bambooHR API. User will be prompted to enter one if not

supplied

companyname This is the subdomain used to access BambooHR. If you access BambooHR at

https://mycompany.bamboohr.com, then companyname will be "mycompany"

conffile A string giving the path where the configuration file will be written. This will au-

to matically attempt to load from the default location $^{\sim}/$.bamboo HR_user_config.json

(which can be changed via a bambooHR.config_file) entry in options).

verbose whether to print path of conf file used, passed to use_config

Examples

```
## Not run:
config_setup("secret api key", "cool company")
## End(Not run)
```

get_company_file

Retrieve A Company File.

Description

'get_company_file' takes a file_id (string) and api version (string) as arguments and then requests and returns data about the corresponding file from the BambooHR API, the file is then downloaded if possible.

```
get_company_file(file_id = "view", api_version = "v1", suppress_view = FALSE)
```

get_employee

Arguments

```
file_id The ID of the file to get from BambooHR.

api_version version of the BambooHR API.

suppress_view prevent display of results when file_id = "view", default is FALSE.
```

Value

returns a response object.

Author(s)

Harry Alexander, harry.alexander@ascent.io

Examples

```
## Not run:
response <- get_company_file(
"480",
api_version = "v1"
)
## End(Not run)</pre>
```

get_employee

Get employee data by specifying a set of fields.

Description

This is suitable for getting basic employee information, including current values for fields that are part of a historical table, like job title, or compensation information. See the fields endpoint for a list of possible fields.

```
get_employee(
  id = "directory",
  fields = NULL,
  only_current = FALSE,
  verbose = FALSE,
  api_version = "v1"
)
```

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Arguments

id	Employee IDs (character or numeric). The default of "directory" will give a directory of all employees, along with a table of possible fields. The special employee ID of zero (0) means to use the employee ID associated with the API key (if any).
fields	Character vector of fields to return. To see all available fields, see the column names of get_employee().
only_current	Setting to false will return future dated values from history table fields.
verbose	Logical, default FALSE. Whether to return the fields dataframe when $[id = "directory"]$.
api_version	(optional) - Version of API to use to make request. Default is "v1".

Value

Tibble (dataframe), unless [verbose = TRUE] and [id = "directory"], in which case a list with the fields dataframe and the directory dataframe.

Examples

```
## Not run:
get_employee()
get_employee(0, fields = c("firstName", "lastName"))
get_employee(c(0, 1, 2), fields = c("firstName", "lastName", "jobTitle"))
## End(Not run)
```

get_employee_file

Retrieve An Employee File

Description

'get_employee_file' takes 'id' (string), 'file_id', (string), and 'api_version' (string) and then requests and returns data about the corresponding file from the BambooHR API. The file will then be written to the user's working directory if possible.

```
get_employee_file(
  id = "0",
  file_id = "view",
  api_version = "v1",
  suppress_view = FALSE
)
```

get_meta

Arguments

id The employee id of the employee.

file_id The file id of the file to be returned.

api_version The version of BambooHR API to be used.

suppress_view prevent display of results when file_id = "view", default is FALSE.

Value

returns a response object.

Author(s)

Harry Alexander, <harry.alexander@ascent.io>

Examples

```
## Not run:
response <- get_employee_file(
id = 0,
file_id = "480",
api_version = "v1"
)
## End(Not run)</pre>
```

get_meta

Get Meta Information

Description

Submits a get request to retrieve account meta information that can be used to help discover the types of field/table etc. available in your account.

Usage

```
get_meta(
  query = c("fields", "tables", "lists", "users", "time_off/types", "time_off/policies"),
  api_version = "v1"
)
```

Arguments

```
query One of: "fields", "tables", "lists", "users", "time_off/types", "time_off/policies".

api_version (optional) - Version of API to use to make request. Default is "v1".
```

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Value

A [tibble::tibble()] object.

References

https://documentation.bamboohr.com/reference/account-information-1

Examples

```
## Not run:
res <- get_meta("fields")
res2 <- get_meta("users")
## End(Not run)</pre>
```

get_report

Get Company Report

Description

Request one of your pre-existing company reports from the reporting section. At present, only reports from the Company Reports section are supported.

Usage

```
get_report(
  id,
  format = c("CSV", "PDF", "XLS", "XML", "JSON"),
  field_filtering = TRUE,
  only_current = TRUE,
  api_version = "v1"
)
```

Arguments

id The report ID. You can get the report number by hovering over the report name

on the reports page and grabbing the ID.

format The output format for the report. Supported formats: CSV, PDF, XLS, XML,

JSON.

field_filtering

Logical, default [TRUE]. Whether to apply duplicate field filtering.

only_current Logical default [TRUE]. Should the report be limited to only current employees.

api_version (optional) - Version of API to use to make request. Default is "v1".

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Value

Currently the function simply returns a parsed response object.

get_request

Bamboo HR API get request wrapper

Description

Submits get requests to the Bamboo API.

Usage

```
get_request(url, key = .get_api_key(), verbose = FALSE)
```

Arguments

url Character url of the get request.

key Character api key for bambooHR. Register in your account, see authentication

for details. Default value is obtained from options("bambooHR.api_key"). This can also be set in the config file using config_setup("api key", "company

domain").

verbose Logical. Should the function provide verbose messaging back on each step?

Value

```
A httr::response() object.
```

```
## Not run:
res <- get_request("https://api.bamboohr.com/api/gateway.php/your_company/v1/employees/0/")
httr::content(res, "text")
## End(Not run)</pre>
```

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get_table

Bamboo API get request wrapper for BambooHR tables

Description

Returns a data structure representing all the table rows for a given employee and table combination.

Usage

```
get_table(employee_id, table_name, api_version = "v1")
```

Arguments

employee_id	Character of employee ID to return. A special employee ID of "all", can also be used which will cause the API to return all rows for all employees in the table. When specifying "all" employees, the result will include inactive and terminated employees. In addition, the special employee ID of 0 is the employee ID associated with the API key being used.
table_name	Character of table name. Valid table names can be found in the "parent_alias" column return by get_meta("tables").
api_version	(optional) - Version of API to use to make request. Default is "v1".

Value

```
A tibble::tibble() object.
```

References

```
https://documentation.bamboohr.com/reference#get-employee-table-row-1
```

```
## Not run:
get_table(employee_id = "all", table_name = "jobInfo")
get_table(employee_id = 0, table_name = "jobInfo")
get_table(0, "compensation")
## End(Not run)
```

get_timeoff_requests

```
get\_timeoff\_policies   Get\ Time\ Off\ policies
```

Description

Wrapper to get_meta function that returns a list of time off policies.

Usage

```
get_timeoff_policies()
```

Value

A httr::response() object where the content is a JSON format that contains the list of time off policies.

Note

Currently do not have the permissions to test this so returning the raw response object

References

https://documentation.bamboohr.com/reference/get-time-off-policies

Examples

```
## Not run:
res <- get_timeoff_policies()
httr::content(res, "parsed")
## End(Not run)</pre>
```

```
get_timeoff_requests Get Time Off Requests
```

Description

Get Time Off Requests

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Usage

```
get_timeoff_requests(
    start,
    end,
    id = NULL,
    action = c("view", "approve"),
    employee_id = NULL,
    type = NULL,
    status = c("approved", "denied", "superseded", "requested", "canceled"),
    api_version = "v1"
)
```

Arguments

start	Character in format "YYYY-MM-DD". Only show time off that occurs on/after the specified start date.
end	Character in format "YYYY-MM-DD". Only show time off that occurs on/before the specified end date.
id	(optional) Integer - A particular request ID to limit the response to.
action	(optional) - Limit to requests that the user has a particular level of access to. Legal values are: "view" or "approve".
employee_id	(optional) Character - A particular employee ID to limit the response to.
type	(optional) - A vector of time off types IDs to include limit the response to. Default is all types are included.
status	(optional) - A vector of request status values to include. Legal values are "approved", "denied", "superseded", "requested", "canceled". Default is all status types.

(optional) - Version of API to use to make request. Default is "v1".

Value

```
A tibble::tibble() object.
```

References

api_version

```
https://documentation.bamboohr.com/reference/time-off-1
```

```
## Not run:
# find valid types
types <- get_timeoff_types()
type_ids <- types %>% tidyr::drop_na(id) %>% dplyr::pull(id)

res <- get_timeoff_requests("2022-01-01", "2022-02-01", type = type_ids)

res2 <- get_timeoff_requests("2022-01-01", "2022-02-01", action = "approve",</pre>
```

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```
status = c("approved", "denied"))
res3 <- get_timeoff_requests("2022-01-01", "2022-02-01", employee_id = "4")
## End(Not run)</pre>
```

get_timeoff_types

Get Time Off Types

Description

Wrapper to get_meta function that returns time off types

Usage

```
get_timeoff_types()
```

Value

A vector of type ids

References

https://documentation.bamboohr.com/reference/get-time-off-types

Examples

```
## Not run:
types <- get_timeoff_types()
type_ids <- types %>% tidyr::drop_na(id) %>% dplyr::pull(id)
## End(Not run)
```

get_whos_out

Get a list of Who's Out

Description

Get a list of Who's Out

```
get_whos_out(start = "", end = "", api_version = "v1")
```

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Arguments

start (optional) - a date in the form YYYY-MM-DD - defaults to the current date.

end (optional) - a date in the form YYYY-MM-DD - defaults to 14 days from the start date.

api_version (optional) - Version of API to use to make request. Default is "v1".

Value

```
A tibble::tibble() object.
```

References

https://documentation.bamboohr.com/reference/get-a-list-of-whos-out-1

Examples

```
## Not run:
res <- get_whos_out()
res2 <- get_whos_out(start = "2022-01-12")
res3 <- get_whos_out(start = "2022-01-01", end = "2022-04-01")
## End(Not run)</pre>
```

response_view

View Data About a Response.

Description

This function uses the 'View' function from Rstudio if available, otherwise it uses the utils::View function.

Usage

```
response_view(x, title)
```

Arguments

x An R object which can be coerced to a data frame with non-zero numbers of

rows and columns.

title Title for the viewer window.

Value

NULL.

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use_config

Use Config File

Description

Choose a specific configuration file to supply the API key and the company domain.

Usage

```
use_config(config = "~/.bambooHR_user_config.json", verbose = TRUE)
```

Arguments

config Filepath to the config file.

verbose Print location of config file being used, default = TRUE

Details

In rare circumstances, it may be useful to swap between multiple configuration files, for example when comparing results on different accounts possibly with different permissions. In this case a user may set-up two config files with [config_setup] in different locations (see [conffile] argument), and swap between them with [use_config]. The chosen config file will then be used for subsequent API calls, as [use_config] sets global options and variables in the package environment. Of course, [config_setup] does all of this too, however [use_config] does not expose the API key when called.

Value

[NULL] invisibly.

```
## Not run:
# Setup 2 configuration files
config_setup(apikey = "key", companyname = "Ascent", conffile = "example.json")
config_setup(apikey = "key2", companyname = "Descent", conffile = "example2.json")

# Jump between them
use_config("example.json")
use_config("example2.json")

# Remove them when finished
unlink("example.json")
unlink("example2.json")

## End(Not run)
```

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