

# Package ‘polished’

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**Type** Package

**Title** Authentication and Hosting for 'shiny' Apps

**Version** 0.8.1

**Maintainer** Andy Merlino <[andy.merlino@tychobra.com](mailto:andy.merlino@tychobra.com)>

**Description**

Authentication, user administration, hosting, and additional infrastructure for 'shiny' apps. See <<https://polished.tech>> for additional documentation and examples.

**License** MIT + file LICENSE

**URL** <https://github.com/tychobra/polished>, <https://polished.tech>

**BugReports** <https://github.com/tychobra/polished/issues>

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**Author** Andy Merlino [aut, cre],  
Patrick Howard [aut],  
Tychobra LLC [cph, fnd]

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<b>add_app</b>	<i>Polished API - Add an App</i>
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## Description

Polished API - Add an App

## Usage

```
add_app(app_name, app_url = NULL, api_key = get_api_key())
```

## Arguments

app_name	the app name.
app_url	an optional app url. This url will be included in links sent out in invite and email verification emails to redirect your users to your app.
api_key	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

## Value

an object of class `polished_api_res`. When successful, the content of the `polished_api_res` is `list(message = "success")`. In the case of an error, the content is `list(error = "<error message>")`.

## See Also

[get\\_apps\(\)](#) [update\\_app\(\)](#) [delete\\_app\(\)](#)

---

<code>add_app_user</code>	<i>Polished API - Add a User to an App</i>
---------------------------	--

---

## Description

Polished API - Add a User to an App

## Usage

```
add_app_user(  
    app_uid,  
    user_uid = NULL,  
    email = NULL,  
    is_admin = FALSE,  
    send_invite_email = FALSE,  
    api_key = get_api_key()  
)
```

## Arguments

<code>app_uid</code>	the app uid.
<code>user_uid</code>	an optional user uid for the user to be invited to the app.
<code>email</code>	an optional email address for the user to be invited to the app.
<code>is_admin</code>	boolean (default: FALSE) - whether or not the user is a Polished admin.
<code>send_invite_email</code>	boolean - whether or not to send the user an invite email notifying them they have been invited to access the app.
<code>api_key</code>	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

## Details

supply either the `user_uid` or `email`. If both are provided, then the `user_uid` will be used, and the `email` will be ignored.

## Value

an object of class `polished_api_res`. When successful, the content of the `polished_api_res` is `list(message = "success")`. In the case of an error, the content is `list(error = "<error message>")`.

## See Also

[get\\_app\\_users\(\)](#) [update\\_app\\_user\(\)](#) [delete\\_app\\_user\(\)](#)

---

add_auth_to_spec	<i>add_auth_to_spec</i>
------------------	-------------------------

---

### Description

Add authentication to the openapi plumber spec so that you can use the swagger documentation with the auth\_filter().

### Usage

```
add_auth_to_spec(method = c("basic", "cookie"))
```

### Arguments

method	the authentication method(s)
--------	------------------------------

### Details

This minimal API example [https://github.com/Tychobra/polished\\_example\\_apps/blob/master/11\\_plumber/api/00\\_start.R](https://github.com/Tychobra/polished_example_apps/blob/master/11_plumber/api/00_start.R) shows how you can add this function to your API.

### Value

a function to update the openapi spec.

---

add_role	<i>Polished API - Add a Role</i>
----------	----------------------------------

---

### Description

Polished API - Add a Role

### Usage

```
add_role(role_name, api_key = get_api_key())
```

### Arguments

role_name	a role name.
api_key	your Polished API key. Set your polished api key using <code>set_api_key()</code> so that you do not need to supply this argument with each function call.

### Value

an object of class `polished_api_res`. When successful, the content of the `polished_api_res` is `list(message = "success")`. In the case of an error, the content is `list(error = "<error message>")`.

**See Also**

[get\\_roles\(\)](#) [delete\\_role\(\)](#)

---

`add_user`

*Polished API - Add a User*

---

**Description**

Polished API - Add a User

**Usage**

`add_user(email, api_key = get_api_key())`

**Arguments**

<code>email</code>	the new user's email address.
<code>api_key</code>	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

**Value**

an object of class `polished_api_res`. When successful, the content of the `polished_api_res` is `list(message = "success")`. In the case of an error, the content is `list(error = "<error message>")`.

**See Also**

[get\\_users\(\)](#) [update\\_user\(\)](#) [delete\\_user\(\)](#)

---

`add_user_role`

*Polished API - Add a User Role*

---

**Description**

Polished API - Add a User Role

**Usage**

```
add_user_role(  
    user_uid,  
    role_uid = NULL,  
    role_name = NULL,  
    api_key = get_api_key()  
)
```

### Arguments

user_uid	a user uid.
role_uid	an optional role uid.
role_name	an optional role name.
api_key	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

### Details

one of either `role_uid` or `role_name` must be provided. If both are provided, only the `role_uid` will be used.

### Value

an object of class `polished_api_res`. When successful, the content of the `polished_api_res` is `list(message = "success")`. In the case of an error, the content is `list(error = "<error message>")`.

### See Also

[get\\_user\\_roles\(\)](#) [delete\\_user\\_role\(\)](#)

---

admin\_button\_ui      *An html button to navigate the the "Admin Panel"*

---

### Description

The UI portion of the 'shiny' module for the button to navigate to the "Admin Panel". This is the button that, when clicked, navigates a 'polished' admin from your 'shiny' app to the 'polished' Admin Panel. If your app is set up with the default 'polished' configuration, this button appears in the bottom right of your 'shiny' app.

### Usage

```
admin_button_ui(align = "right", vertical_align = "bottom")
```

### Arguments

align	The horizontal alignment of the button. Valid options are "right" (the default) or "left".
vertical_align	the vertical alignment of the button. Valid options are "bottom" (the default) or "top"

### Value

admin button UI

---

`admin_server`

*The server logic for the default Admin Panel dashboard*

---

### Description

The Shiny module server logic for the polished Admin Panel, accessible to Admin users.

### Usage

```
admin_server(input, output, session)
```

### Arguments

<code>input</code>	the Shiny server input
<code>output</code>	the Shiny server output
<code>session</code>	the Shiny server session

### Value

```
invisible(NULL)
```

---

`admin_ui`

*The UI for the "Admin Panel" dashboard*

---

### Description

The shiny module UI for the polished Admin Panel, accessible to Admin users.

### Usage

```
admin_ui(options = default_admin_ui_options())
```

### Arguments

<code>options</code>	list of HTML elements to customize branding of "Admin Panel". Valid list element names are <code>title</code> , <code>sidebar_branding</code> , and <code>browser_tab_icon</code> . See <a href="#">default_admin_ui_options</a> for an example.
----------------------	--

### Value

the UI for the "Admin Panel"

---

api_list_to_df	<i>Convert a list returned from the Polished API into a data frame</i>
----------------	--

---

## Description

In order to avoid issues with converting R data frames into JSON objects and back to R data frames, we instead convert R data frames to R lists before converting them to JSON to be sent via the Polished API. This function then converts those lists back into R data frames (or more precisely tibbles).

## Usage

```
api_list_to_df(api_list)
```

## Arguments

api\_list      a list. All elements in the list are vectors of the same length.

## Value

a tibble

---

auth_filter	<i>Auth filter for a Plumber API</i>
-------------	--------------------------------------

---

## Description

Auth filter for a Plumber API

## Usage

```
auth_filter(method = c("basic", "cookie"), api_key = get_api_key())
```

## Arguments

method      The authentication method. Valid options are "basic" and/or "cookie". If "basic" is set, the filter will authenticate the request using basic auth. If "cookie", the filter will authenticate the request using the cookie. If both "cookie" and "basic" are set, then the filter will first attempt to authenticate using the cookie, and, if that fails, it will attempt to authenticate using basic auth. If you use cookie based auth, and you want to send requests directly from the browser, then be sure to set your Plumber API to allow for cookies. See <https://polished.tech/blog/polished-plumber> for details.

api\_key      Your polished API key

## Value

a Plumber API filter function

---

**bundle\_app***Create a tar archive*

---

**Description**

This function is called by `deploy_app()` to compress Shiny apps before deploying them to Polished Hosting. You probably won't need to call this function directly.

**Usage**

```
bundle_app(app_dir = ".")
```

**Arguments**

`app_dir`      The path to the directory containing your Shiny app. Defaults to the working directory.

**Value**

the file path of the app bundle

**Examples**

```
## Not run:  
bundle_app(  
  system.file("examples/polished_example_01", package = "polished")  
)  
  
## End(Not run)
```

---

**default\_admin\_ui\_options***Default Options for the Admin UI*

---

**Description**

This function specifies the default logos that are displayed in the "Admin Panel".

**Usage**

```
default_admin_ui_options()
```

### Value

the default list of HTML for branding elements in the Admin Panel UI. The valid list element names are:

- title - Title/Logo element in top left corner of Admin Panel dashboard & browser tab title
- sidebar\_branding - Branding (e.g. Logo) on left sidebar of Admin Panel dashboard
- browser\_tab\_icon - Icon to display in browser tab

---

delete\_app

*Polished API - Delete an App*

---

### Description

Polished API - Delete an App

### Usage

```
delete_app(app_uid = NULL, app_name = NULL, api_key = get_api_key())
```

### Arguments

app_uid	an optional app uid. One of either app_uid or app_name must be provided.
app_name	an optional app name. One of either app_uid or app_name must be provided.
api_key	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

### Details

If both app\_uid and app\_name arguments are provided, then the app\_uid will be used and the app\_name will be ignored.

### Value

an object of class `polished_api_res`. When successful, the content of the `polished_api_res` is `list(message = "success")`. In the case of an error, the content is `list(error = "<error message>")`.

### See Also

[get\\_apps\(\)](#) [add\\_app\(\)](#) [update\\_app\(\)](#)

---

`delete_app_user`*Polished API - Delete an App User*

---

**Description**

Polished API - Delete an App User

**Usage**

```
delete_app_user(app_uid, user_uid, api_key = get_api_key())
```

**Arguments**

app_uid	an app uid.
user_uid	a user uid.
api_key	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

**Value**

an object of class `polished_api_res`. When successful, the content of the `polished_api_res` is `list(message = "success")`. In the case of an error, the content is `list(error = "<error message>")`.

**See Also**

[get\\_apps\(\)](#) [add\\_app\(\)](#) [update\\_app\\_user\(\)](#)

---

`delete_role`*Polished API - Delete a Role*

---

**Description**

Polished API - Delete a Role

**Usage**

```
delete_role(role_uid, api_key = get_api_key())
```

**Arguments**

role_uid	the role uid of the role to be deleted.
api_key	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

**Value**

an object of class polished\_api\_res. When successful, the content of the polished\_api\_res is list(message = "success"). In the case of an error, the content is list(error = "<error message>").

**See Also**

[get\\_roles\(\)](#) [add\\_role\(\)](#)

---

delete\_user

*Polished API - Delete a User*

---

**Description**

Polished API - Delete a User

**Usage**

```
delete_user(user_uid, api_key = get_api_key())
```

**Arguments**

user_uid	the uid of the user to be deleted.
api_key	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

**Value**

an object of class polished\_api\_res. When successful, the content of the polished\_api\_res is list(message = "success"). In the case of an error, the content is list(error = "<error message>").

**See Also**

[get\\_users\(\)](#) [add\\_user\(\)](#) [update\\_user\(\)](#)

---

`delete_user_role`

*Polished API - Delete a User Role*

---

### Description

Polished API - Delete a User Role

### Usage

```
delete_user_role(role_uid, user_uid, api_key = get_api_key())
```

### Arguments

<code>role_uid</code>	the role uid of the role to be deleted.
<code>user_uid</code>	the user uid that the role should be removed from.
<code>api_key</code>	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

### Value

an object of class `polished_api_res`. When successful, the content of the `polished_api_res` is `list(message = "success")`. In the case of an error, the content is `list(error = "<error message>")`.

### See Also

[get\\_user\\_roles\(\)](#) [add\\_user\\_role\(\)](#)

---

`deploy_app`

*Deploy a Shiny app to Polished Hosting*

---

### Description

Deploy a Shiny app to Polished Hosting

### Usage

```
deploy_app(  
  app_name,  
  app_dir = ".",  
  api_key = get_api_key(),  
  launch_browser = TRUE,  
  region = "us-east1",  
  ram_gb = 2,  
  r_ver = NULL,
```

```

    tlmgr = character(0),
    golem_package_name = NULL,
    cache = TRUE,
    gh_pat = NULL,
    max_sessions = Inf
)

```

## Arguments

app_name	Your Shiny app's name.
app_dir	The path to the directory containing your Shiny app.
api_key	Your polished API key. Defaults to <code>Sys.getenv("POLISHED_API_KEY")</code> if set.
launch_browser	Boolean (default: <code>TRUE</code> ) - Whether or not to open your newly deployed app in your default web browser after successful deployment.
region	the region to deploy the app to on Google Cloud Platform. See <a href="https://cloud.google.com/run/docs/locations">https://cloud.google.com/run/docs/locations</a> for all available regions on Google Cloud Platform. Currently, database connections are only supported for <code>us-east1</code> . See <a href="https://polished.tech/docs/06-database-connections">https://polished.tech/docs/06-database-connections</a> for details.
ram_gb	the amount of memory (in GiB) to allocate to your Shiny app's server. Valid values are 2, 4, 8, 16, or 32.
r_ver	Character string of desired R version. If kept as <code>NULL</code> (the default), <code>deploy_app()</code> will detect the R version you are currently running. The R version must be a version supported by an <code>r-ver</code> Docker image. You can see all the <code>r-ver</code> Docker image versions of R here <a href="https://github.com/rocker-org/rocker-versioned2/tree/master/dockerfiles">https://github.com/rocker-org/rocker-versioned2/tree/master/dockerfiles</a> and here <a href="https://github.com/rocker-org/rocker-versioned/tree/master/r-ver">https://github.com/rocker-org/rocker-versioned/tree/master/r-ver</a> .
tlmgr	a character vector of TeX Live packages to install. This is only used if your Shiny app generates PDF documents. Defaults to <code>character(0)</code> for no TeX Live installation. Provide a character vector of your TeX Live package dependencies to have all your TeX Live packages installed at build time.
golem_package_name	if your Shiny app was created as a package with the <code>golem</code> package, provide the name of the Shiny app package as a character string. Defaults to <code>NULL</code> . Keep as <code>NULL</code> for non <code>golem</code> Shiny apps.
cache	Boolean (default: <code>TRUE</code> ) - whether or not to cache the Docker image.
gh_pat	optional GitHub PAT for installing packages from private GitHub repos.
max_sessions	the maximum number of concurrent sessions to run on a single app instance before starting another instance. e.g. set to 5 to have a max of 5 user sessions per app instance. The default is <code>Inf</code> which will run all concurrent sessions on only 1 app instance.

## Value

an object of class `polished_api_res`.

## Examples

```
## Not run:
deploy_app(
  app_name = "polished_example_01",
  app_dir = system.file("examples/polished_example_01", package = "polished"),
  api_key = "<your polished.tech API key>"
)
## End(Not run)
```

**email\_input**

*A Shiny email input*

## Description

This is a replica of `shiny::textInput()` with the HTML input type attribute set to "email" rather than "text".

## Usage

```
email_input(
  inputId,
  label = tagList(shiny::icon("envelope"), "Email"),
  value = "",
  width = NULL,
  placeholder = NULL
)
```

## Arguments

<code>inputId</code>	The input slot that will be used to access the value.
<code>label</code>	Display label for the control, or <code>NULL</code> for no label.
<code>value</code>	Initial value.
<code>width</code>	The width of the input, e.g. ' <code>400px</code> '.
<code>placeholder</code>	A character string giving the user a hint as to what can be entered into the control. Internet Explorer 8 and 9 do not support this option.

## Value

the UI for the email input.

---

`firebase_dependencies` *Load the Firebase JavaScript dependencies into the UI*

---

## Description

Under the hood, `polished` uses Firebase JavaScript dependencies to handle Social sign in & user authentication when `sign_in_providers` besides "email" are included in `polished_config()`. This function loads the required Firebase JavaScript dependencies in the the UI of your Shiny app.

## Usage

```
firebase_dependencies(services = c("auth"), firebase_version = "7.15.5")
```

## Arguments

<code>services</code>	character vector of Firebase services to load into the UI. Valid strings are "auth" (default), "firestore", "functions", "messaging", and "storage"
<code>firebase_version</code>	character string of the Firebase version. Defaults to "7.15.5".

## Value

the HTML `<script>` tags for the Firebase JavaScript dependencies

## Examples

```
firebase_dependencies()
```

---

`firebase_init` *Initialize Firebase*

---

## Description

Executes a few lines of JavaScript to initialize Firebase. This function should be called in your Shiny UI immediately after [firebase\\_dependencies](#).

## Usage

```
firebase_init(firebase_config)
```

**Arguments**`firebase_config`

named list of firebase configuration values. Required values are:

- `apiKey`
- `authDomain`
- `projectId`

**Value**

a character string of JavaScript code to initialize Firebase

**Examples**

```
## Not run:
my_config <- list(
  apiKey = "your Firebase API key",
  authDomain = "your Firebase auth domain",
  projectId = "your Firebase Project ID"
)

firebase_init(my_config)

## End(Not run)
```

`get_apps`

*Polished API - Get App(s)*

**Description**

Polished API - Get App(s)

**Usage**

```
get_apps(app_uid = NULL, app_name = NULL, api_key = get_api_key())
```

**Arguments**`app_uid`

an optional app uid.

`app_name`

an optional app name.

`api_key`

your Polished API key. Set your polished api key using `set_api_key()` so that you do not need to supply this argument with each function call.

## Details

If both the app\_uid and app\_name are NULL, then all the apps in your account will be returned. If either app\_uid or app\_name are not NULL, then a single app will be returned (assuming the app exists). If both the app\_uid and app\_name are provided, then the app\_uid will be used, and the app\_name will be ignored. If the app does not exists, a zero row tibble will be returned.

## Value

an object of class polished\_api\_res. When successful, the content of the object is a tibble of app(s) with the following columns:

- uid
- app\_name
- app\_url
- created\_at
- modified\_at In the case of an error, the content is a list with 1 element named "error".

## See Also

[add\\_app\(\)](#) [update\\_app\(\)](#) [delete\\_app\(\)](#)

---

get\_app\_users

*Polished API - Get App(s) User(s)*

---

## Description

Polished API - Get App(s) User(s)

## Usage

```
get_app_users(  
  app_uid = NULL,  
  user_uid = NULL,  
  email = NULL,  
  api_key = get_api_key()  
)
```

## Arguments

app_uid	an optional app uid.
user_uid	an optional user uid.
email	an optional user email address.
api_key	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

## Details

If `app_uid`, `user_uid`, & `email` are all `NULL`, then all app users will be returned.

## Value

an object of class `polished_api_res`. When successful, the content of the object is a tibble of app(s) with the following columns:

- `uid`
- `app_uid`
- `user_uid`
- `is_admin`
- `created_at`
- `email`

## See Also

[add\\_app\\_user\(\)](#) [update\\_app\\_user\(\)](#) [delete\\_app\\_user\(\)](#)

---

`get_roles`

*Polished API - Get Role(s)*

---

## Description

Polished API - Get Role(s)

## Usage

```
get_roles(role_uid = NULL, api_key = get_api_key())
```

## Arguments

<code>role_uid</code>	an optional role uid.
<code>api_key</code>	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

## Value

an object of class `polished_api_res`. The content of the object is a tibble of user(s) with the following columns:

- `uid`
- `role_name`
- `created_at`

## See Also

[add\\_role\(\)](#) [delete\\_role\(\)](#)

---

`get_users`*Polished API - Get User(s)*

---

## Description

Polished API - Get User(s)

## Usage

```
get_users(  
  user_uid = NULL,  
  email = NULL,  
  include_two_fa = FALSE,  
  api_key = get_api_key()  
)
```

## Arguments

<code>user_uid</code>	an optional user uid.
<code>email</code>	an optional user email.
<code>include_two_fa</code>	boolean, whether or not to include the 2FA information.
<code>api_key</code>	your Polished API key. Set your polished api key using <code>set_api_key()</code> so that you do not need to supply this argument with each function call.

## Details

If both the `user_uid` and `email` are `NULL`, then all the users in your account will be returned. If either `user_uid` or `email` are not `NULL`, then a single user will be returned (assuming the user exists). If both the `user_uid` and `email` are provided, then the `user_uid` will be used, and the `email` will be ignored. If the user does not exists, a zero row tibble will be returned.

## Value

an object of class `polished_api_res`. The content of the object is a tibble of users(s) with the following columns:

- `uid`
- `email`
- `email_verified`
- `created_by`
- `created_at`
- `modified_by`
- `modified_at`
- `is_password_set`

**See Also**

[add\\_user\(\)](#) [update\\_user\(\)](#) [delete\\_user\(\)](#)

---

`get_user_roles`      *Polished API - Get User Role(s)*

---

**Description**

Polished API - Get User Role(s)

**Usage**

```
get_user_roles(user_uid = NULL, role_uid = NULL, api_key = get_api_key())
```

**Arguments**

- |                       |   |
|-----------------------|---|
| <code>user_uid</code> | an optional user uid.   |
| <code>role_uid</code> | an optional role uid.   |
| <code>api_key</code>  | your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call. |

**Value**

an object of class `polished_api_res`. The "content" of the object is a tibble of users(s) with the following columns:

- `role_uid`
- `role_name,`
- `user_uid,`
- `user_name,`
- `created_at`

**See Also**

[add\\_user\\_role\(\)](#) [delete\\_user\\_role\(\)](#)

---

normalize_ui	<i>normalize UI</i>
--------------	---------------------

---

## Description

the UI passed a shiny app can be a function HTML. This function normalized the 2 different formats so that they both use the character

## Usage

```
normalize_ui(ui, request_)
```

## Arguments

ui	the Shiny ui
request_	the request environment passed to the first argument of the UI function

## Value

the Shiny UI

---

password_input	<i>A modification of shiny::passwordInput</i>
----------------	---

---

## Description

This modified version of Shiny's passwordInput() does not actually send the password to our Shiny server. It is just a regular password input that always keeps your user's password on the client. The password is used to sign the user in and then converted to a JWT by Firebase, all on the client, before it is sent to your Shiny server.

## Usage

```
password_input(  
  input_id,  
  label = htmltools::tagList(icon("unlock-alt"), "Password"),  
  value = "",  
  style = "",  
  placeholder = NULL  
)
```

**Arguments**

<code>input_id</code>	The input slot that will be used to access the value.
<code>label</code>	Display label for the control, or <code>NULL</code> for no label.
<code>value</code>	Initial value.
<code>style</code>	Character string of in-line CSS to style the input.
<code>placeholder</code>	A character string giving the user a hint as to what can be entered into the control. Internet Explorer 8 and 9 do not support this option.

**Value**

the UI to create a password input.

<code>polished_api_res</code>	<i>Send GET Request to the Polished API</i>
-------------------------------	---

**Description**

Send GET Request to the Polished API

**Usage**

```
polished_api_res(resp)
```

**Arguments**

<code>resp</code>	a Polished API response
-------------------	-------------------------

**Value**

an S3 object of class "polished\_api\_res".

<code>polished_config</code>	<i>global configuration for polished authentication</i>
------------------------------	---

**Description**

global configuration for polished authentication

## Usage

```
polished_config(  
  app_name,  
  api_key = get_api_key(),  
  firebase_config = NULL,  
  is_invite_required = TRUE,  
  sign_in_providers = "email",  
  is_email_verification_required = TRUE,  
  cookie_expires = 365L,  
  is_auth_required = TRUE,  
  is_two_fa_required = FALSE  
)  
  
global_sessions_config(...)
```

## Arguments

**app\_name** the name of the Shiny app.

**api\_key** the polished API key, available at <https://dashboard.polished.tech>.

**firebase\_config** if using Social Sign In (see <https://polished.tech/docs/03-social-sign-in> for more documentation), a list containing your Firebase project configuration (Default: NULL). This list should have the following named elements:

- apiKey
- authDomain
- projectId

**is\_invite\_required** TRUE by default. Whether or not to require the user to have an invite before registering/signing in

**sign\_in\_providers** a character vector of sign in providers to enable. Valid values are "google", "email", "microsoft", and/or "facebook". Defaults to "email".

**is\_email\_verification\_required** TRUE by default. Whether or not to require the user to verify their email before accessing your Shiny app.

**cookie\_expires** the number of days before a user's cookie expires. Set to NULL to force Sign Out at session end. This argument is passed to the expires option in js-cookie: <https://github.com/js-cookie/js-cookie#expires>. Default value is 365L (i.e. 1 year)

**is\_auth\_required** TRUE by default. Whether or not to require users to be signed in to access the app. It can be useful to set this argument to FALSE if you want to allow users to do certain actions (such as viewing charts and tables) without signing in, and only require users to sign in if they want to save data to your database.

**is\_two\_fa\_required** boolean specifying whether or not 2 factor authentication is required. Defaults to FALSE.

... arguments to pass to `polished_config`

## Details

This is the primary function for configuring polished. It configures your app's instance of the Polished class that manages polished authentication. Call this function in your `global.R` file. See [https://github.com/Tychobra/polished/blob/master/inst/examples/polished\\_example\\_01/global.R](https://github.com/Tychobra/polished/blob/master/inst/examples/polished_example_01/global.R) for a complete example.

## Value

`invisible(NULL)`

## Examples

```
## Not run:
# global.R

polished_config(
  app_name = "<your app name>",
  api_key = "<your API key>",
  firebase_config = list(
    apiKey = "<Firebase apiKey>",
    authDomain = "<Firebase authDomain>",
    projectId = "<Firebase projectId>"
  ),
  sign_in_providers = c(
    "email",
    "google",
    "microsoft"
  )
)

## End(Not run)
```

---

`print.polished_api_res`  
*print polished\_api\_res*

---

## Description

Generic print function for `polished_api_res` S3 class.

## Usage

```
## S3 method for class 'polished_api_res'
print(x, ...)
```

**Arguments**

- |     |   |
|-----|---|
| x   | an S3 object of class polished_api_res. |
| ... | additional arguments.                   |

**Value**

```
invisible(NULL)
```

---

profile_module	<i>Profile Module Server</i>
----------------	------------------------------

---

**Description**

The server logic to accompany the [profile\\_module\\_ui](#).

**Usage**

```
profile_module(input, output, session)
```

**Arguments**

- |         |                          |
|---------|--------------------------|
| input   | the Shiny server input   |
| output  | the Shiny server output  |
| session | the Shiny server session |

**Value**

```
invisible(NULL)
```

---

profile_module_ui	<i>Profile Module UI</i>
-------------------	--------------------------

---

**Description**

Generates the UI for a user profile dropdown button to be used with the shinydashboard package.

**Usage**

```
profile_module_ui(id, other_lis = NULL)
```

**Arguments**

- |           |  |
|-----------|--|
| id        | the Shiny module id.   |
| other_lis | additional <li> HTML tags to place between the email address and the Sign out button in the user profile dropdown. This is often used to add a user "My Account" page/app where the user can set their account settings. |

**Value**

the UI to create the profile dropdown.

providers\_ui

*UI for the Social Sign In authentication providers' buttons***Description**

Creates the HTML UI of the "Sign in with \*" buttons. These buttons are only necessary if you enable Social Sign In via the `sign_in_providers` argument passed to [polished\\_config](#).

**Usage**

```
providers_ui(
  ns,
  sign_in_providers = c("google", "email"),
  title = "Sign In",
  fancy = TRUE
)
```

**Arguments**

<code>ns</code>	the Shiny namespace function created with <code>shiny::NS()</code> .
<code>sign_in_providers</code>	a character vector of sign in providers to enable. Valid values are "google", "email", "microsoft", and/or "facebook". Defaults to "email".
<code>title</code>	The title to be used above the provider buttons. Set to NULL to not include
<code>fancy</code>	Should the buttons be large and colorful?

**Value**

the HTML UI of the "Sign in with \*" buttons.

remove\_query\_string

*Remove the URL query***Description**

Remove the entire query string from the URL. This function should only be called inside the server function of your Shiny app.

**Usage**

```
remove_query_string(
  session = shiny::getDefaultReactiveDomain(),
  mode = "replace"
)
```

**Arguments**

- session        the Shiny session  
 mode           the mode to pass to shiny::updateQueryString(). Valid values are "replace" or "push".

**Value**

`invisible(NULL)`

---

secure\_rmd

*Render and secure R Markdown document*

---

**Description**

`secure_rmd()` can be used to render (or run) and secure many types of R Markdown documents. Rendering is handled either by `rmarkdown::render` or, if using `shiny`, a shiny app is constructed, and the then the output is secured with polished authentication.

**Usage**

```
secure_rmd(
  rmd_file_path,
  polished_config_args = list(),
  sign_in_page_args = list(),
  sign_out_button = NULL
)
```

**Arguments**

- `rmd_file_path`    the path the to .Rmd file.  
`polished_config_args`  
                     arguments to be passed to `polished_config`. (**NOTE:** Values passed in this list will override YAML header values if both provided).  
`sign_in_page_args`  
                     a named `list()` to customize the Sign In page UI. Valid names are `color`, `company_name`, `logo`, & `background_image`. (**NOTE:** Values passed in this list will override YAML header values if both provided).

**sign\_out\_button**  
A shiny::actionButton or shiny::actionLink with inputId = "sign\_out".  
If this argument is left as NULL, secure\_rmd will attempt to add in an appropriate sign out button/link depending on the output format of your .Rmd document.  
Set this argument to list() to not include a sign out button.

**Value**

a Shiny app object

**Examples**

```
## Not run:

secure_rmd(system.file("examples/rmds/flexdashboard.Rmd", package = "polished"))
secure_rmd(
  system.file("examples/rmds/flexdashboard.Rmd", package = "polished"),
  polished_config_args = list(
    # any values in this list will override values in YAML header
    app_name = "different_name"
  ),
  sign_in_page_args = list(
    color = "#FF5700"
  )
)
secure_rmd(system.file("examples/rmds/flexdashboard_shiny.Rmd", package = "polished"))
secure_rmd(system.file("examples/rmds/html_document.Rmd", package = "polished"))
secure_rmd(system.file("examples/rmds/pdf_document.Rmd", package = "polished"))
io_file_path <- system.file(
  "examples/rmds/ioslides/ioslides_presentation.Rmd",
  package = "polished"
)
secure_rmd(io_file_path)

## End(Not run)
```

**secure\_server**

*Secure your Shiny app's server*

**Description**

This function is used to secure your Shiny app's server function. Make sure to pass your Shiny app's server function as the first argument to secure\_server() at the bottom of your Shiny app's server.R file.

**Usage**

```
secure_server(server, custom_sign_in_server = NULL, custom_admin_server = NULL)
```

## Arguments

server	A Shiny server function (e.g <code>function(input, output, session) {}</code> )
custom_sign_in_server	Either NULL, the default, or a Shiny server containing your custom sign in server logic.
custom_admin_server	Either NULL, the default, or a Shiny server function containing your custom admin server functionality.

## Value

a Shiny server function.

---

secure_ui	<i>Secure your Shiny UI</i>
-----------	-----------------------------

---

## Description

This function is used to secure your Shiny app's UI. Make sure to pass your Shiny app's UI as the first argument to `secure_ui()` at the bottom of your Shiny app's `ui.R` file.

## Usage

```
secure_ui(  
  ui,  
  sign_in_page_ui = NULL,  
  custom_admin_ui = NULL,  
  custom_admin_button_ui = admin_button_ui(),  
  admin_ui_options = default_admin_ui_options()  
)
```

## Arguments

ui	UI of the application.
sign_in_page_ui	Either NULL, the default (See <a href="#">sign_in_ui_default</a> ), or the Shiny UI for a custom Sign In page.
custom_admin_ui	Either NULL, the default, or the Shiny UI for a custom Admin Panel.
custom_admin_button_ui	Either <code>admin_button_ui()</code> , the default, or your custom UI to take Admins from the custom Shiny app to the polished Admin Panel. Set to NULL to exclude the button.

**admin\_ui\_options**

list of HTML elements to customize branding of the polished Admin Panel. This argument is only applicable if the `custom_admin_ui` is set to `NULL`. If a `custom_admin_ui` is provided, then these options will be ignored. Valid list element names are `title`, `sidebar_branding`, and `browser_tab_icon`. See [default\\_admin\\_ui\\_options](#), the default.

**Value**

Secured Shiny app UI

---

**send\_password\_reset\_email\_module**

*the server logic for a Shiny module to send a password reset email*

---

**Description**

This function sends a request to the <https://polished.tech> API to reset a user's password.

**Usage**

```
send_password_reset_email_module(input, output, session, email)
```

**Arguments**

<code>input</code>	the Shiny server input
<code>output</code>	the Shiny server output
<code>session</code>	the Shiny server session
<code>email</code>	A reactive value returning the email address to send the password reset email to.

**Value**

```
invisible(NULL)
```

---

**send\_password\_reset\_email\_module\_ui**

*the UI for a Shiny module to send a password reset email*

---

**Description**

the UI for a Shiny module to send a password reset email

**Usage**

```
send_password_reset_email_module_ui(id, link_text = "Forgot your password?")
```

**Arguments**

id	the Shiny module id
link_text	text to use for the password reset link.

**Value**

the UI to create a password reset link.

---

set_api_key	<i>set Polished API key</i>
-------------	-----------------------------

---

**Description**

The API key can be set as an Environment Variable via `Sys.getenv("POLISHED_API_KEY")`.

**Usage**

```
set_api_key(api_key)  
get_api_key()
```

**Arguments**

api_key	the Polished API key
---------	----------------------

**Value**

a list of the newly set polished R options

**Examples**

```
set_api_key(api_key = "<my Polished API key>")
```

`set_config_env`      *Automatically set the config environment*

### Description

Determines if the app is deployed to a server or running locally, and adjusts the config environment to "production" or "default", respectively. This function is almost always called in the `global.R` file of a Shiny app immediately before the configuration in the `config.yml` is read in.

### Usage

```
set_config_env(override = NULL)
```

### Arguments

<code>override</code>	Set the environment to "default" or "production" manually. <b>CAUTION:</b> Be sure you know the difference between "default" & "production" configuration environments. Using the "production" environment will affect the database of the deployed application.
-----------------------	--

### Value

```
invisible(NULL)
```

`sign_in_check_jwt`      *Check the JWT from the user sign in*

### Description

This function retrieves the JWT created by the JavaScript from `sign_in_js` and signs the user in as long as the token can be verified. This function should be called in the server function of a shiny module. Make sure to call `sign_in_js` in the UI function of this module.

### Usage

```
sign_in_check_jwt(jwt, session = shiny::getDefaultReactiveDomain())
```

### Arguments

<code>jwt</code>	a reactive returning a Firebase JSON web token for the signed in user.
<code>session</code>	the shiny session.

### Value

```
invisible(NULL)
```

---

`sign_in_js`

*Sign in and register pages JavaScript dependencies*

---

## Description

This function should be called at the bottom of your custom sign in and registration pages UI. It loads in all the JavaScript dependencies to handle polished sign in and registration. See the vignette for details.

## Usage

```
sign_in_js(ns = function(x) x)
```

## Arguments

`ns` the ns function from the Shiny module that this function is called within.

## Value

the javascript to and other web dependencies to create the sign in functionality.

---

`sign_in_module`

*Server logic for the Sign In & Register pages*

---

## Description

This server logic accompanies the [sign\\_in\\_module\\_ui](#).

## Usage

```
sign_in_module(input, output, session)
```

## Arguments

<code>input</code>	the Shiny input
<code>output</code>	the Shiny output
<code>session</code>	the Shiny session

## Value

```
invisible(NULL)
```

---

`sign_in_module_2`      *Server logic for the Sign In & Register pages*

---

### Description

This server logic accompanies [sign\\_in\\_module\\_2.ui](#).

### Usage

```
sign_in_module_2(input, output, session)
```

### Arguments

<code>input</code>	the Shiny input
<code>output</code>	the Shiny output
<code>session</code>	the Shiny session

### Value

```
invisible(NULL)
```

---

`sign_in_module_2_ui`      *UI for the Sign In & Register pages*

---

### Description

Alternate sign in UI that works regardless of whether or not invites are required. The UI displays email sign in inputs on the left, and social sign in options on the right. [sign\\_in\\_module\\_2](#) must be provided as the argument `custom_sign_in_server` in [secure\\_server](#) for proper functionality.

### Usage

```
sign_in_module_2_ui(id)
```

### Arguments

<code>id</code>	the Shiny module id
-----------------	---------------------

### Value

the sign in module UI.

---

sign_in_module_ui	<i>UI for the Sign In &amp; Register pages</i>
-------------------	--

---

### Description

UI for the Sign In & Register pages when a user invite is required to Register & Sign In.

### Usage

```
sign_in_module_ui(  
  id,  
  register_link = "First time user? Register here!",  
  password_reset_link = "Forgot your password?"  
)
```

### Arguments

id	the Shiny module id
register_link	The text that will be displayed in the link to go to the user registration page. The default is "First time user? Register here!". Set to NULL if you don't want to use the registration page.
password_reset_link	The text that will be displayed in the link to go to the receive an email to reset your password. The default is "Forgot your password?". Set to NULL if you don't want to use the registration page.

### Value

the sign in module UI.

---

sign_in_social	<i>verify the users Firebase JWT and store the session</i>
----------------	--

---

### Description

verify the users Firebase JWT and store the session

### Usage

```
sign_in_social(firebase_token, hashed_cookie)
```

### Arguments

firebase_token	the Firebase JWT. This JWT is created client side (in JavaScript) via <code>firebase.auth()</code> .
hashed_cookie	the hashed polished cookie. Used for tracking the user session. This cookie is inserted into the "polished.sessions" table if the JWT is valid.

**Value**

NULL if sign in fails. If sign in is successful, a list containing the following:

- email
- email\_verified
- is\_admin
- user\_uid
- hashed\_cookie
- session\_uid

**sign\_in\_ui\_default**      *Default UI styles for the Sign In & Registration pages*

**Description**

Default styling for the sign in & registration pages. Update the `sign_in_ui_default()` arguments with your brand and colors to quickly style the sign in & registration pages to match your brand.

**Usage**

```
sign_in_ui_default(
  sign_in_module = sign_in_module_ui("sign_in"),
  color = "#5ec7dd",
  company_name = "Your Brand Here",
  logo_top = tags$div(style = "width: 300px; max-width: 100%; color: #FFF;", class =
    "text-center", h1("Your", style = "margin-bottom: 0; margin-top: 30px;"), h1("Brand",
    style = "margin-bottom: 0; margin-top: 10px;"), h1("Here", style =
    "margin-bottom: 15px; margin-top: 10px;")),
  logo_bottom = NULL,
  icon_href = "polish/images/polished_icon.png",
  background_image = NULL,
  terms_and_privacy_footer = NULL,
  align = "center",
  button_color = NULL,
  footer_color = "#FFF"
)
```

**Arguments**

<code>sign_in_module</code>	UI module for the Sign In & Registration pages.
<code>color</code>	hex color for the background and button.
<code>company_name</code>	your company name.
<code>logo_top</code>	HTML for logo to go above the sign in panel.
<code>logo_bottom</code>	HTML for the logo below the sign in panel.

icon_href	the URL/path to the browser tab icon.
background_image	the URL/path to a full width background image. If set to NULL, the default, the color argument will be used for the background instead of this image.
terms_and_privacy_footer	links to place in the footer, directly above the copyright notice.
align	The horizontal alignment of the Sign In box. Defaults to "center". Valid values are "left", "center", or "right"
button_color	the color of the "Continue", "Sign In", and "Register" buttons. If kept as NULL, the default, then the button color will be the same color as the color passed to the color argument.
footer_color	the text color for the copyright text in the footer.

**Value**

the html and css to create the default sign in UI.

the UI for the Sign In & Registration pages

sign\_out\_from\_shiny    *Sign Out from your Shiny app*

**Description**

Call this function to sign a user out of your Shiny app. This function should be called inside the server function of your Shiny app. See [https://github.com/Tychobra/polished/blob/master/inst/examples/polished\\_example\\_01/server.R](https://github.com/Tychobra/polished/blob/master/inst/examples/polished_example_01/server.R) For an example of this function being called after the user clicks a "Sign Out" button.

**Usage**

```
sign_out_from_shiny(
  session = shiny::getDefaultReactiveDomain(),
  redirect_page = "?page=sign_in"
)
```

**Arguments**

session	the Shiny session
redirect_page	the query string for the page that the user should be redirected to after signing out.

**Value**

```
invisible(NULL)
```

---

`update_app`*Polished API - Update an App*

---

## Description

Polished API - Update an App

## Usage

```
update_app(app_uid, app_name = NULL, app_url = NULL, api_key = get_api_key())
```

## Arguments

app_uid	the app uid of the app to update.
app_name	an optional app name to replace the existing app name.
app_url	an optional app url to replace the existing app url.
api_key	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

## Value

an object of class `polished_api_res`. When successful, the content of the `polished_api_res` is `list(message = "success")`. In the case of an error, the content is `list(error = "<error message>")`.

## See Also

[get\\_apps\(\)](#) [add\\_app\(\)](#) [delete\\_app\(\)](#)

---

`update_app_user`*Polished API - Update an App User*

---

## Description

Polished API - Update an App User

## Usage

```
update_app_user(app_uid, user_uid, is_admin = FALSE, api_key = get_api_key())
```

## Arguments

app_uid	the app uid to update.
user_uid	the user uid to update.
is_admin	boolean (default: FALSE) - whether or not the user is an admin.
api_key	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

**Value**

an object of class polished\_api\_res. When successful, the content of the polished\_api\_res is list(message = "success"). In the case of an error, the content is list(error = "<error message>").

**See Also**

[get\\_app\\_users\(\)](#) [add\\_app\\_user\(\)](#) [delete\\_app\\_user\(\)](#)

---

update\_user

*Polished API - Update a user*

---

**Description**

Polished API - Update a user

**Usage**

```
update_user(user_uid, user_data, api_key = get_api_key())
```

**Arguments**

user_uid	the uid of the user to be updated.
user_data	list of data to update.
api_key	your Polished API key. Set your polished api key using <a href="#">set_api_key()</a> so that you do not need to supply this argument with each function call.

**Value**

an object of class polished\_api\_res. When successful, the content of the polished\_api\_res is list(message = "success"). In the case of an error, the content is list(error = "<error message>").

**See Also**

[get\\_users\(\)](#) [add\\_user\(\)](#) [delete\\_user\(\)](#)

---

`user_access_module`      *admin user access module*

---

### Description

Server function for the default Shiny module to control user access in the polished Admin Panel.

### Usage

```
user_access_module(input, output, session)
```

### Arguments

<code>input</code>	the Shiny server input
<code>output</code>	the Shiny server output
<code>session</code>	the Shiny server session

### Value

```
invisible(NULL)
```

---

`user_access_module_ui`    *admin user access ui*

---

### Description

Shiny module UI for the default user access tab in the polished Admin Panel.

### Usage

```
user_access_module_ui(id)
```

### Arguments

<code>id</code>	the module id
-----------------	---------------

### Value

the UI to create the user access module.

---

`valid_gcp_regions`      *Valid Regions for Polished Hosting*

---

### Description

Set the `region` argument of `deploy_app()` to one of these regions.

### Usage

`valid_gcp_regions`

### Format

An object of class `character` of length 35.

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