

Package ‘staticcryptR’

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Title Encrypt HTML Files Using 'staticcrypt'

Version 0.1.0

Description Provides a convenient interface to the 'staticcrypt' by Robin Moisson <<https://github.com/robinmoisson/staticcrypt>>---'Node.js' package for adding a password protection layer to static HTML pages. This package can be integrated into the post-render process of 'quarto' documents to secure them with a password.

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Encoding UTF-8

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NeedsCompilation no

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check_system	<i>Check System Requirements</i>
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Description

Checks if Node.js, npm, and Staticcrypt are available on your system.

Usage

```
check_system()
```

Details

This function verifies that Node.js, npm, and Staticrypt are installed and available in the system PATH. It will attempt to install Staticrypt if it is not found.

Value

Logical. Returns TRUE if all requirements are met.

install_staticrypt	<i>Install Staticrypt</i>
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Description

Installs Staticrypt globally using npm if it is not already installed. Requires Node.js and npm to be installed on your system.

Usage

```
install_staticrypt(force = FALSE)
```

Arguments

force	Logical. If TRUE, skips the user prompt and forces installation. Default is FALSE.
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Details

This function checks if Node.js and npm are available, then installs Staticrypt globally using npm. If force is FALSE, it prompts the user for confirmation before proceeding with the installation.

Value

Logical. Returns TRUE if installation was successful, FALSE otherwise.

staticryptr	<i>Staticrypt Wrapper Function with Command Print Option and User-Specified String</i>
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Description

This function is an R wrapper for the Staticrypt CLI tool. It allows users to encrypt or decrypt files using various customizable options, includes type checking for each argument, offers the option to print the resulting command without executing it, and allows the inclusion of a user-specified string.

Usage

```
staticryptr(
  files,
  directory = NULL,
  recursive = FALSE,
  password = NULL,
  short = FALSE,
  decrypt = FALSE,
  remember = NULL,
  salt = NULL,
  share = NULL,
  share_remember = FALSE,
  config = NULL,
  template = NULL,
  template_button = NULL,
  template_color_primary = NULL,
  template_color_secondary = NULL,
  template_instructions = NULL,
  template_error = NULL,
  template_placeholder = NULL,
  template_remember = NULL,
  template_title = NULL,
  template_toggle_hide = NULL,
  template_toggle_show = NULL,
  print_cmd = FALSE,
  user_string = NULL
)
```

Arguments

files	Character. One or more filenames to encrypt/decrypt.
directory	Character. Directory where the generated files will be saved (default: NULL).
recursive	Boolean. Whether to recursively encrypt the input directory (default: FALSE).
password	Character. Password for encryption (default: NULL, prompts if empty).
short	Boolean. Hide "short password" warning (default: FALSE).

decrypt	Boolean. Flag to decrypt files (default: FALSE).
remember	Integer. Expiration in days for "Remember me" checkbox (default: NULL).
salt	Character. 32-character hexadecimal string used as salt (default: NULL).
share	Character. URL for auto-decrypting link (default: NULL).
share_remember	Boolean. Auto-enable "Remember me" in the share link (default: FALSE).
config	Character. Path to the config file (default: NULL).
template	Character. Path to custom HTML template (default: NULL).
template_button	Character. Label for the decrypt button (default: NULL).
template_color_primary	Character. Primary color for the button (default: NULL).
template_color_secondary	Character. Secondary color for the background (default: NULL).
template_instructions	Character. Special instructions for the user (default: NULL).
template_error	Character. Error message on wrong password (default: NULL).
template_placeholder	Character. Placeholder for password input (default: NULL).
template_remember	Character. Label for "Remember me" checkbox (default: NULL).
template_title	Character. Title for the HTML page (default: NULL).
template_toggle_hide	Character. Alt text for hiding the password (default: NULL).
template_toggle_show	Character. Alt text for showing the password (default: NULL).
print_cmd	Boolean. Whether to print the resulting command instead of executing it (default: FALSE).
user_string	Character. A user-specified string to be appended to the command (default: NULL).

Value

Executes the Staticrypt CLI with the specified options or prints the command if `print_cmd` is TRUE.

Examples

```
# Encrypt a file with a password
# `print_cmd = TRUE` Only outputs the command to be passed to `system()`
staticrypt(
  "index.html",
  password = "yourpassword",
  print_cmd = TRUE
)

# Decrypt a file (assuming you have the correct configuration)
```

```
staticryptr(  
    "index.html",  
    decrypt = TRUE,  
    print_cmd = TRUE  
)  
  
# Encrypt multiple files with custom options  
staticryptr(  
    files = c("page1.html", "page2.html"),  
    password = "securepassword",  
    template = "custom_template.html",  
    template_color_primary = "#3498db",  
    template_instructions = "Enter the password to access the page.",  
    print_cmd = TRUE  
)  
  
# Encrypt a directory recursively  
staticryptr(  
    files = "_output/",  
    directory = ".",  
    password = "yourverylongpassword",  
    short = TRUE,  
    recursive = TRUE,  
    print_cmd = TRUE  
)
```

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