Package 'OhdsiSharing'

August 10, 2015

Type Package

Title Package for sharing of the results of the OHDSI tools

Version 0.0.1

Date 2015-08-05

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Description Package for sharing of the results of the OHDSI tools, with functions for encrypting results and sending results through FTP to a central site.

Imports rJava

Suggests OhdsiRTools

License Apache License

R topics documented:

`compressAndEncryptFolder` *Compress and encrypt a folder*

Description

Compress and encrypt a folder

Usage

```
compressAndEncryptFolder(sourceFolder, targetFileName, publicKeyFileName)
```

Arguments

sourceFolder	Name of the folder that must be encrypted.
targetFileName	Name of the file that will hold the encrypted data.
publicKeyFileName	Name of the file where the public key is stored.

Details

Compresses all files in a folder and its subfolders, and encrypts using the provided public key.

Examples

```
## Not run:
generateKeyPair("public.key", "private.key")

# Create a folder with some data
dir.create("test")
data <- data.frame(x = runif(1000), y = 1:1000)
saveRDS(data, "test/data1.rds")
saveRDS(data, "test/data2.rds")

compressAndEncryptFolder("test", "data.zip.enc", "public.key")
decryptAndDecompressFolder("data.zip.enc", "test2", "private.key")

## End(Not run)
```

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compressFolder *Compress a folder*

Description

Compress a folder

Usage

```
compressFolder(sourceFolder, targetFileName)
```

Arguments

sourceFolder	Name of the folder that must be compressed.
targetFileName	Name of the file that will hold the compressed data.

Details

Compresses all files in a folder and its subfolders, and stores it in a single zip file.

Examples

```
## Not run:
# Create a folder with some data
dir.create("test")
data <- data.frame(x = runif(1000), y = 1:1000)
saveRDS(data, "test/data1.rds")
saveRDS(data, "test/data2.rds")

compressFolder("test", "data.zip")
decompressFolder("data.zip", "test2")

## End(Not run)
```

`decompressFolder` *Decompress a folder*

Description

Decompress a folder

Usage

```
decompressFolder(sourceFileName, targetFolder)
```

Arguments

`sourceFileName`	Name of the file that must be decompressed.
`targetFolder`	Name of the folder that will hold the extracted data.

Details

Extracts all compressed files to a folder.

Examples

```
## Not run:
# Create a folder with some data
dir.create("test")
data <- data.frame(x = runif(1000), y = 1:1000)
saveRDS(data, "test/data1.rds")
saveRDS(data, "test/data2.rds")

compressFolder("test", "data.zip")
decompressFolder("data.zip", "test2")

## End(Not run)
```

decryptAndDecompressFolder *Decrypt and decompress a folder*

Description

Decrypt and decompress a folder

Usage

```
decryptAndDecompressFolder(sourceFileName, targetFolder, privateKeyFileName)
```

Arguments

sourceFileName	Name of the file that must be decrypted.
targetFolder	Name of the folder that will hold the unencrypted data.
privateKeyFileName	Name of the file where the private key is stored.

Details

Decrypts the data using the provided private key and extracts all files to a folder.

Examples

```
## Not run:
generateKeyPair("public.key", "private.key")

# Create a folder with some data
dir.create("test")
data <- data.frame(x = runif(1000), y = 1:1000)
saveRDS(data, "test/data1.rds")
saveRDS(data, "test/data2.rds")

compressAndEncryptFolder("test", "data.zip.enc", "public.key")
decryptAndDecompressFolder("data.zip.enc", "test2", "private.key")

## End(Not run)
```

decryptFile *Decrypt a data file*

Description

Decrypt a data file

Usage

```
decryptFile(sourceFileName, targetFileName, privateKeyFileName)
```

Arguments

sourceFileName	Name of the file that must be decrypted.
targetFileName	Name of the file that will hold the unencrypted data.
privateKeyFileName	Name of the file where the private key is stored.

Details

Decrypts the data using the provided private key.

Examples

```
## Not run:
generateKeyPair("public.key", "private.key")
data <- data.frame(x = runif(1000), y = 1:1000)
saveRDS(data, "data.rds")
encryptFile("data.rds", "data.rds.enc", "public.key")
decryptFile("data.rds.enc", "data2.rds", "private.key")

## End(Not run)
```

---

encryptFile *Encrypt a data file*

Description

Encrypt a data file

Usage

```
encryptFile(sourceFileName, targetFileName, publicKeyFileName)
```

Arguments

sourceFileName	Name of the file that must be encrypted.
targetFileName	Name of the file that will hold the encrypted data.
publicKeyFileName	Name of the file where the public key is stored.

Details

Encrypts the data using the provided public key.

Examples

```
## Not run:
generateKeyPair("public.key", "private.key")
data <- data.frame(x = runif(1000), y = 1:1000)
saveRDS(data, "data.rds")
encryptFile("data.rds", "data.rds.enc", "public.key")

## End(Not run)
```

`generateKeyPair` *Create a public-private key pair*

Description

Create a public-private key pair

Usage

```
generateKeyPair(publicKeyFileName, privateKeyFileName)
```

Arguments

`publicKeyFileName`
: Name of the file where the public key should be stored.

`privateKeyFileName`
: Name of the file where the private key should be stored.

Details

Creates an RSA 4096-bit public-private key pair. The public key can be used to encrypt data, and only with the private key can the data be decrypted.

Examples

```
## Not run:
generateKeyPair("public.key", "private.key")

## End(Not run)
```

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