Package 'OhdsiSharing'

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Type Package
Title Package for sharing of the results of the OHDSI tools
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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 and S3 to a central site.
Imports rJava, aws.signature, httr, XML, uuid, xml2, base64enc, digest, curl
Suggests OhdsiRTools
License Apache License
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```
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)</pre>
```

compressFolder

Compress a folder

Description

Compress a folder

Usage

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

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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)</pre>
```

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")</pre>
```

```
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)</pre>
```

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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)</pre>
```

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.

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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)</pre>
```

generateKeyPair

Create a public-private key pair

Description

Create a public-private key pair

Usage

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

Arguments

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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putssriie Pui a tocai jue inio a remote ss bucket	putS3File	Put a local file into a remote S3 bucket
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Description

Put a local file into a remote S3 bucket

Usage

```
putS3File(file, bucket, region = "us-east-1", key, secret,
  appendUUID = TRUE)
```

Arguments

file The path to the file in the local filesystem. bucket The name of the bucket to put the file in.

region The region of the S3. key Your AWS access key.

secret Your AWS secret access key.

appendUUID Should append an universally unique identifier to file name when uploading?

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