

Package ‘scrypt’

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Type Package

Title Key Derivation Functions for R Based on Scrypt

Version 0.1.6

Copyright RStudio, Inc.; Colin Percival

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Description Functions for working with the scrypt key derivation functions originally described by Colin Percival <<https://www.tarsnap.com/scrypt/scrypt.pdf>> and in Percival and Josefsson (2016) <[doi:10.17487/RFC7914](https://doi.org/10.17487/RFC7914)>. Scrypt is a password-based key derivation function created by Colin Percival. The algorithm was specifically designed to make it costly to perform large-scale custom hardware attacks by requiring large amounts of memory.

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Depends R (>= 3.0.0)

URL <https://github.com/bobjansen/rscrypt>

Imports Rcpp (>= 0.10.6)

LinkingTo Rcpp

NeedsCompilation yes

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Repository CRAN

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script-package	<i>script key derivation functions for R</i>
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Description

script is an R package for working with script. Scrypt is a password-based key derivation function created by Colin Percival. The algorithm was specifically designed to make it costly to perform large-scale custom hardware attacks by requiring large amounts of memory.

Details

Package:	script
Type:	Package
Version:	0.1
Date:	2014-01-07
License:	GPLv3

The script package can be used for hashing and verifying passwords, or encrypting and decrypting data. Additionally, the script function can be used directly.

Author(s)

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References

[script](#)

See Also

[hashPassword](#), [verifyPassword](#) and [script](#)

hashPassword	<i>Hash a password</i>
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Description

Hash a password

Usage

```
hashPassword(passwd, maxmem = 0.1, maxtime = 1)
```

Arguments

passwd	password to hash
maxmem	max memory percent (default 0.1)
maxtime	max cpu time (default 1.0)

Value

base64 encoded hash

See Also

[verifyPassword](#)

Examples

```
# Hash password using default parameters
hashPassword('passwd')

# Hash password with custom parameters
hashPassword('passwd', maxmem=0.25, maxtime=1.0)
```

verifyPassword	<i>Verify a hashed password</i>
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Description

Verify a hashed password

Usage

```
verifyPassword(hash, passwd)
```

Arguments

hash	base64 hash to verify
passwd	password to verify

Value

TRUE if password matches hash, otherwise FALSE

See Also

[hashPassword](#)

Examples

```
# Hash password using default parameters
hashed <- hashPassword("password")

# verify invalid password
verifyPassword(hashed, "bad password");

# verify correct password
verifyPassword(hashed, "password")
```

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