

Package ‘AWR.KMS’

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Type Package

Maintainer Gergely Daroczi <gergely.daroczi@card.com>

Author Gergely Daroczi <gergely.daroczi@card.com>

Title A Simple Client to the 'AWS' Key Management Service

Description Encrypt plain text and 'decrypt' cipher text using encryption keys hosted at Amazon Web Services ('AWS') Key Management Service ('KMS'), on which see <<https://aws.amazon.com/kms>> for more information.

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Imports AWR, rJava, jsonlite

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AWR.KMS-package

An R client to Amazon Key Management Service

Description

This is a simple wrapper around the most important features of the related Java SDK.

References

<http://docs.aws.amazon.com/AWSJavaSDK/latest/javadoc/com/amazonaws/services/kms/AWSKMClient.html>

kms_decrypt

Decrypt cipher into plain text via KMS

Description

Decrypt cipher into plain text via KMS

Usage

```
kms_decrypt(cipher)
```

Arguments

cipher Base64-encoded ciphertext

Value

decrypted text

References

<http://docs.aws.amazon.com/AWSJavaSDK/latest/javadoc/com/amazonaws/services/kms/AWSKMClient.html#decrypt-com.amazonaws.services.kms.model.DecryptRequest->

See Also

kms_encrypt

kms_encrypt	<i>Encrypt plain text via KMS</i>
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Description

Encrypt plain text via KMS

Usage

```
kms_encrypt(key, text)
```

Arguments

key	the KMS customer master key identifier as a fully specified Amazon Resource Name (eg <code>arn:aws:kms:us-east-1:123456789012:key/12345678-1234-1234-1234-123456789012</code>) or an alias with the <code>alias/</code> prefix (eg <code>alias/foobar</code>)
text	max 4096 bytes long character vector, eg an RSA key, a database password, or other sensitive customer information

Value

Base64-encoded text

References

<http://docs.aws.amazon.com/AWSJavaSDK/latest/javadoc/com/amazonaws/services/kms/AWSKMClient.html#encrypt-com.amazonaws.services.kms.model.EncryptRequest->

See Also

kms_decrypt

Examples

```
## Not run:  
kms_encrypt('alias/mykey', 'foobar')  
  
## End(Not run)
```

kms_generate_data_key *Generate a data encryption key for envelope encryption*

Description

Generate a data encryption key for envelope encryption

Usage

```
kms_generate_data_key(key, bytes = 64L)
```

Arguments

key	the KMS customer master key identifier as a fully specified Amazon Resource Name (eg <code>arn:aws:kms:us-east-1:123456789012:key/12345678-1234-1234-1234-123456789012</code>) or an alias with the <code>alias/</code> prefix (eg <code>alias/foobar</code>)
bytes	the required length of the data encryption key in bytes (so provide eg 64L for a 512-bit key)

Value

list of the Base64-encoded encrypted version of the data encryption key (to be stored on disk), the raw object of the encryption key and the KMS customer master key used to generate this object

References

http://docs.aws.amazon.com/kms/latest/APIReference/API_GenerateDataKey.html

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