Package ‘AWR.KMS’

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Type Package

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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

NeedsCompilation no

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R topics documented:

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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/AWSKMSClient.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/AWSKMSClient.html#decrypt-com.amazonaws.services.kms.model.DecryptRequest-

See Also

kms_encrypt
**kms_encrypt**  

**Encrypt plain text via KMS**

**Description**

Encrypt plain text via KMS

**Usage**

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

**Arguments**

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

**Value**

Base64-encoded text

**References**


**See Also**

- `kms_decrypt`

**Examples**

```r
## 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 arn:aws:kms:us-east-1:123456789012:key/12345678-1234-1234-1234-123456789012) or an alias with the alias/ prefix (eg alias/foobar)
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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