

# 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.

**Version** 0.1

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**URL** <https://github.com/cardcorp/AWR.KMS>

**License** AGPL-3

**Imports** AWR, rJava, jsonlite

**NeedsCompilation** no

**Repository** CRAN

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AWR.KMS-package

*An R client to Amazon Key Management Service*

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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/AWSKMClient.html>

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kms\_decrypt

*Decrypt cipher into plain text via KMS*

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### **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

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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)
```

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kms\_generate\_data\_key *Generate a data encryption key for envelope encryption*

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**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](http://docs.aws.amazon.com/kms/latest/APIReference/API_GenerateDataKey.html)

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