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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R topics documented:

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**kms_decrypt**

**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/AWSKMSClient.html

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**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

kms_encrypt(key, text)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>key</td>
<td>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 alias/ prefix (eg <code>alias/foobar</code>)</td>
</tr>
<tr>
<td>text</td>
<td>max 4096 bytes long character vector, eg an RSA key, a database password, or other sensitive customer information</td>
</tr>
</tbody>
</table>

Value

Base64-encoded text

References

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

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

**Usage**

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

**Arguments**

- **key**
  - the KMS customer master key identifier as a fully specified Amazon Resource Name (e.g., `arn:aws:kms:us-east-1:123456789012:key/12345678-1234-1234-1234-123456789012`) or an alias with the `alias/` prefix (e.g., `alias/foobar`)
- **bytes**
  - the required length of the data encryption key in bytes (so provide `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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