

- StreamEncryption
- StreamModeDetails

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- # AWS::Kinesis::Stream StreamEncryption
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- Enables or updates server-side encryption using an AWS KMS key for a specified stream.
- 

Note
When invoking this API, you must use either the `StreamARN` or the `StreamName` parameter, or both. It is recommended that you use the `StreamARN` input parameter when you invoke this API.
- Starting encryption is an asynchronous operation. Upon receiving the request, Kinesis Data Streams returns immediately and sets the status of the stream to `UPDATING`. After the update is complete, Kinesis Data Streams sets the status of the stream back to `ACTIVE`. Updating or applying encryption normally takes a few seconds to complete, but it can take minutes. You can continue to read and write data to your stream while its status is `UPDATING`. Once the status of the stream is `ACTIVE`, encryption begins for records written to the stream.
- API Limits: You can successfully apply a new AWS KMS key for server-side encryption 25 times in a rolling 24-hour period.
- Note: It can take up to 5 seconds after the stream is in an `ACTIVE` status before all records written to the stream are encrypted. After you enable encryption, you can verify that encryption is applied by inspecting the API response from `PutRecord` or `PutRecords`.
- ## Syntax
- To declare this entity in your AWS CloudFormation template, use the following syntax:
- ### JSON
- ```
{
 "EncryptionType" : String,
 "KeyId" : String
}
```
- ### YAML
- ```
EncryptionType: String
KeyId: String
```
- ## Properties
- ### EncryptionType
- The encryption type to use. The only valid value is `KMS`.
- Required:* Yes
- Type:* String
- Allowed values:* KMS
- Update requires:* No interruption
- ### KeyId
- The GUID for the customer-managed AWS KMS key to use for encryption. This value can be a globally unique identifier, a fully specified Amazon Resource Name (ARN) to either an alias or a key, or an alias name prefixed by "alias/".You can also use a master key owned by Kinesis Data Streams by specifying the alias `aws/kinesis`.
- Key ARN example: `arn:aws:kms:us-east-1:123456789012:key/12345678-1234-1234-1234-123456789012`
 - Alias ARN example: `arn:aws:kms:us-east-1:123456789012:alias/MyAliasName`
 - Globally unique key ID example: `12345678-1234-1234-1234-123456789012`
 - Alias name example: `alias/MyAliasName`
 - Master key owned by Kinesis Data Streams: `alias/aws/kinesis`
- Required:* Yes
- Type:* String
- Minimum:* 1
- Maximum:* 2048
- Update requires:* No interruption
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