Cloud Storage always <u>encrypts your data on the server side</u> (/storage/docs/encryption/default-keys), before it is written to disk, at no additional charge. Besides this standard behavior, there are additional ways to encrypt your data when using Cloud Storage. Below is a summary of the encryption options available to you:

- Server-side encryption: encryption that occurs after Cloud Storage receives your data, but before the data is written to disk and stored.
 - <u>Customer-supplied encryption keys</u> (/storage/docs/encryption/customer-supplied-keys): You can create and manage your own encryption keys for server-side encryption, which act as an additional encryption layer on top of the standard Cloud Storage encryption.
 - <u>Customer-managed encryption keys</u> (/storage/docs/encryption/customer-managed-keys): You can generate and manage your encryption keys using Cloud Key Management Service, which act as an additional encryption layer on top of the standard Cloud Storage encryption.
- <u>Client-side encryption</u> (/storage/docs/encryption/client-side-keys): encryption that occurs before
 data is sent to Cloud Storage. Such data arrives at Cloud Storage already encrypted but also
 undergoes server-side encryption.

ng: If you use customer-supplied encryption keys or client-side encryption, you must securely manage your keys and that they are not lost. If you lose your keys, you are no longer able to read your data, and you continue to be charge e of your objects until you delete them.