DisCloud

1 Introduction

Discord provides unlimited space to upload your files, but you can upload files with max 25 mb size. The Discloud is a Python-based application designed to facilitate the management of large files within a Discord server. This bot offers functionality to split a file into parts, upload them to a Discord channel, and later combine those parts to reconstruct the original file. Ultimately you get UNLIMITED STORAGE SPACE. The use of encryption ensures the security of the file content during the split and combine operations.

1.1 Key Features

- **File Splitting:** Break down large files into manageable parts for sharing on Discord.
- **Encryption:** Ensure the security of file content by encrypting each part using the Fernet encryption algorithm.
- **File Combining:** Reassemble file parts on Discord to recreate the original file.
- **Deletion of File Parts:** Manage server storage by providing the ability to delete previously uploaded file parts.

1.2 How it Works

The bot utilizes discord-py for interaction with Discord servers and the cryptography library for file encryption. Users can trigger commands in a Discord channel to split, combine, or delete file parts. Each file part is encrypted before upload to maintain data privacy.

This application is particularly useful in scenarios where file size limitations on Discord may pose challenges, offering a seamless solution for sharing large files while ensuring data security.

Create a Discord Server

1. Open Discord and log in to your account.
2. On the left sidebar, click the '+' button to create a new server.
3. Choose "Create My Own" and enter a name for your server.
4. Customize your server settings and click "Create."

Create a Discord Bot

1. Go to the Discord Developer Portal.
2. Click on "New Application" and give your application a name.
3. Navigate to the "Bot" tab and click "Reset Token."
4. Under the "Token" section, click "Copy" to copy your bot token.

Add the Bot to the Server

1. Go back to the Discord Developer Portal.
2. In your application, go to the "OAuth2" tab.
3. Under the "OAuth2 URL Generator," select the "bot" scope.
4. Scroll down, select the "Administrator" bot permission, and copy the generated URL.
5. Paste the URL into your browser, choose your server, and authorize the bot.

Create a Private Text Channel

1. In your Discord server.
2. Go to the "Text Channel" tab and click on the "+" button to create a new channel.
3. Give it a name.
4. Set the channel to "Private" and select the select the bot as a member.
5. Create the channel

2 Prerequisites

Before using the bot, ensure that you have the following prerequisites:

- Python installed on your machine.
- Discord bot token obtained from the Discord Developer Portal.

3 Setup

1. Clone the repository containing the Discord bot code.
2. Install the required Python packages by running:

```
    pip install discord.py cryptography

```

3. Set the `BOT_TOKEN` variable in discloud.py with your Discord bot token.
4. run genkey.py to generate the encryption key enckey.key if you need a new key.
5. Never ever lose the encryption key, if you do you won't be able to use the files ever again. The key you used to encrypt the part files when uploading is needed to decrypt the downloaded part to its original form.

4 Usage

4.1 Splitting a File and Upload

To split a file and upload its parts to Discord, use the following command in a Discord channel where the bot is present:

```
!split <file_path>
```

Replace `<file_path>` with the path to the file you want to split.

4.2 Downloading file parts and Combining

To combine file parts and download the original file, use the following command:

```
!combine <output\_file\_path>
```

Replace `<output_file_path>` with the desired path for the combined file. suppose the file you want to download is fileName.ext and the path where you want to download it is my/custom/path

So, the output_file_path will be: my/custom/path/filename.ext

4.3 Deleting File Parts

To delete all uploaded file parts from the Discord channel, use the following command:

```
!delete <file\_name>
```