**ShareSafely**

## Project Overview

**ShareSafely**, a web application I've developed to securely manage file uploads using Azure Blob Storage. The application not only allows users to upload files but also generates unique, time-limited links for secure sharing. Additionally, it includes a mechanism for automated cleanup of expired files using Azure Functions.

## Features

* **Secure File Uploads:** Users can securely upload files to Azure Blob Storage.
* **Time-Limited Sharing:** The app generates unique URLs with a limited duration, ensuring that files can only be accessed by authorized users.
* **Automated Cleanup:** Periodic cleanup of expired files is handled using Azure Functions.
* **Monitoring and Alerts:** Set up with Azure Monitor to keep track of the app's performance and health.
* **Secure Credential Management:** Azure Key Vault is used to securely store and manage sensitive credentials.

## Technologies Used

* **Azure Blob Storage**: For secure file storage.
* **Azure Web Apps**: Hosting the web application.
* **Azure Key Vault**: Secure management of secrets.
* **Azure Monitor**: Monitoring and alerting on app performance.
* **Azure Functions**: For automation tasks like cleanup.
* **Python (Flask)**: The backend framework used for development.

### Steps

#### 1. Azure Blob Storage Setup

I began by setting up an Azure Blob Storage account named "sharesafelystrg" and a container named "uploads" to store the uploaded files. Key security configurations include:

* Enabling "Secure transfer required"
* Disabling "Allow Blob Anonymous access"
* Enabling soft delete for blobs and containers

#### 2. Web Application Development

The application was developed using Flask in Python. Below is the structure of the project:

ShareSafelyApp/ ├── app.py ├── templates/ │ ├── upload.html │ └── link.html └── static/ └── styles.css

* **app.py**: Handles the main application logic, including file uploads and generating SAS tokens.
* **upload.html** and **link.html**: HTML templates for the user interface.
* **styles.css**: Styling for the application.

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