



애저 서버리스에서 파이썬/장고 웹서비스 쉽게 배포/운영하기 리액트 웹 애플리케이션 배포와 애저 장고 API 연동

여러분의 파이썬/장고/리액트 페이스메이커가 되겠습니다.

세션 목차

- EP01. 애저펄션과 파이썬 구동 환경 소개
- EP02. 애저펄션 개발환경 구축 및 기본 프로젝트 생성
- EP03. 장고 애플리케이션 생성 및 애저펄션 연동
- EP04. Azure SQL Database와 장고 연동
- EP05. Azure Blob Storages와 장고 연동
- EP06. 애저펄션 인프라로 배포하기
- EP07. 리액트 웹 애플리케이션 배포와 애저 장고 API 연동
- EP08. 마무리

Agenda

- 리액트 웹 애플리케이션 생성 및 화면 만들기
- API 연동 및 CORS 설정
- Azure Blob Storages로의 정적 웹 사이트 호스팅 배포

리액트 웹 애플리케이션

App.jsx

```
import React from "react";
import useAxios from "axios-hooks";
import { Alert } from "@material-ui/lab";

import "../App.css";

const API_HOST = process.env.REACT_APP_API_HOST;

function App() {
  const [{ data: postList, loading, error }, refetch] = useAxios(
    `${API_HOST}/blog/posts/`
  );

  return (
    <div className="App">
      <h1>Gallery with Azure Functions</h1>
      <p>API_HOST: {API_HOST}</p>

      {loading && (
        <Alert variant="filled" severity="info">
          Now Loading ...
        </Alert>
      )}
    </div>
  );
}
```

```
    {error && (
      <Alert variant="filled" severity="error">
        {JSON.stringify(error)}
      </Alert>
    )}

    {postList && (
      <div className="post-list">
        {postList.map(({ id, photo, message, created_at }) => (
          <div key={id} className="post">
            <img src={photo} alt={`post#${id}`} className="photo" />
            <div className="message">
              {message} <small>{created_at}</small>
            </div>
          </div>
        ))}
      </div>
    )}
  );
}

export default App;
```

App.css

```
.App {  
  width: 800px;  
  max-width: 100%;  
  margin: 0 auto;  
}  
  
.post-list {  
  
}  
  
.post {  
  margin-bottom: 1em;;  
}  
  
.post .photo {  
  max-width: 100%;  
  border-radius: 25px;  
}  
  
.post .message {  
  padding: .5em;  
}
```

환경변수

- .env.development `REACT_APP_API_HOST=http://localhost:7071`
- .env.production `REACT_APP_API_HOST=https://azfunctions-demo.azurewebsites.net`

CORS 설정

개발서버 : local.settings.json

```
{
  "IsEncrypted": false,
  "Host": {
    "CORS": "*"
  },
  "Values": {
    "AzureWebJobsStorage": "",
    "FUNCTIONS_WORKER_RUNTIME": "python"
  }
}
```

장고에서 직접 웹서버를 구동할 때에는
django-cors-headers 라이브러리 추천

운영 Functions App

The screenshot shows the 'CORS' settings page for a Function App in the Azure portal. The left sidebar contains a navigation menu with 'API Management' and 'CORS' highlighted. The main content area shows the 'CORS' settings, including a description of Cross-Origin Resource Sharing (CORS), a checkbox for 'Enable Access-Control-Allow-Credentials' (which is currently unchecked), and a list of 'Allowed Origins' with three entries: 'https://functions.azure.com', 'https://functions-staging.azure.com', and 'https://functions-next.azure.com'. Each entry has a three-dot menu icon to its right. There is also an input field for adding more origins.

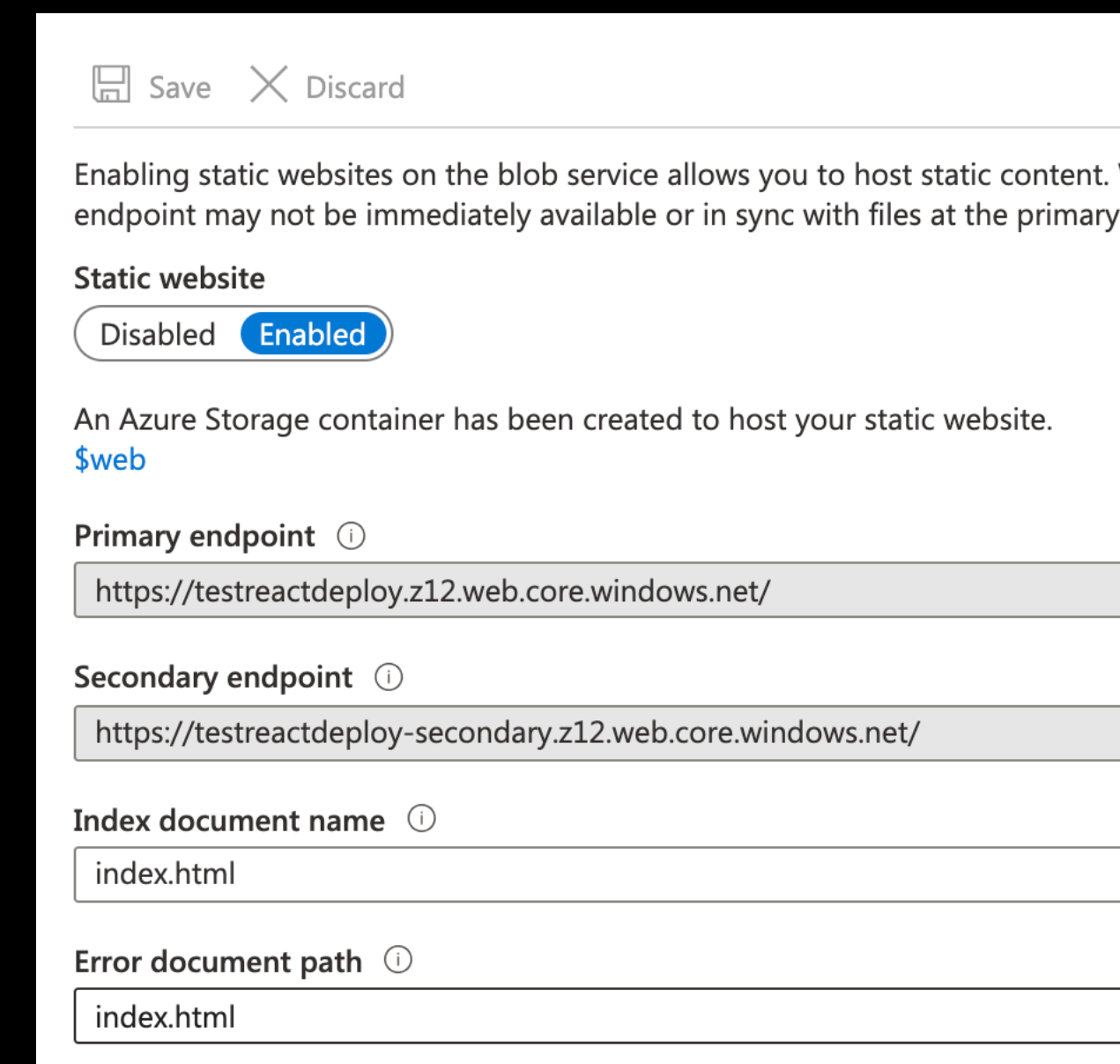
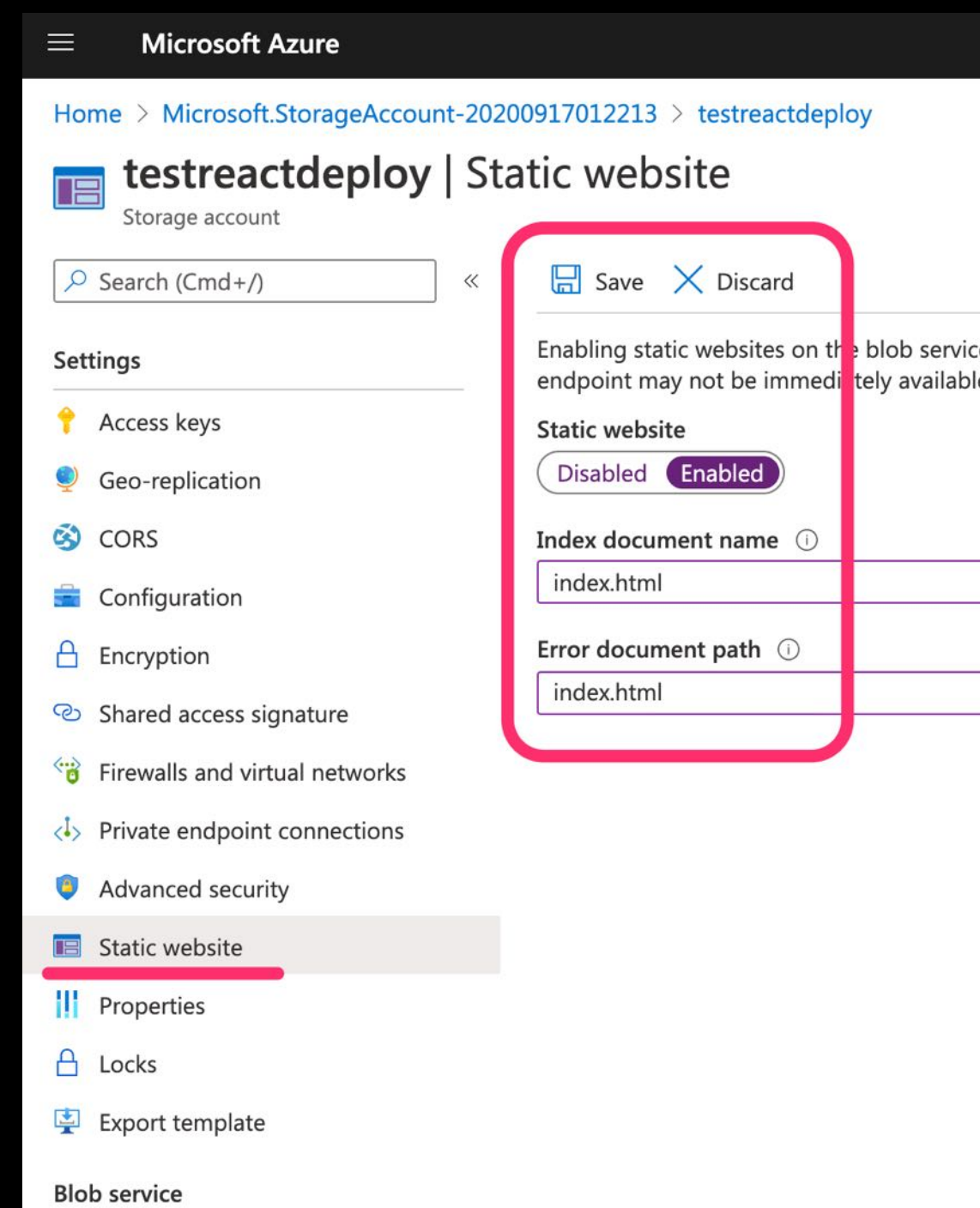
리액트 앱 구성 및 로컬/원격 API 연동 (Demo)

```
C:\Demo>
```

Azure Blob Storages 로의 배포

Azure Blob Storage의 정적 웹 사이트 호스팅

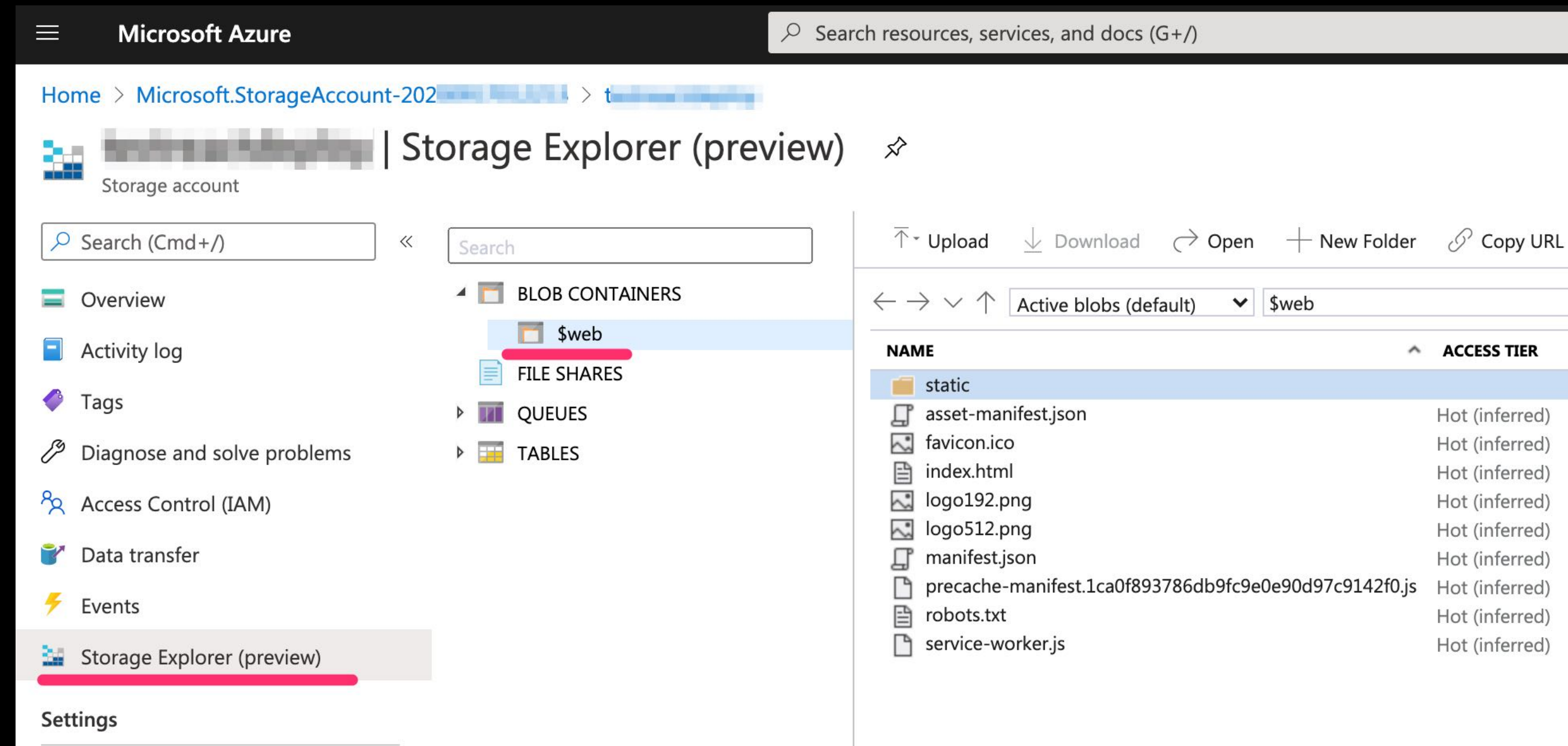
- StorageV2 (general purpose v2) 에서 지원



<https://docs.microsoft.com/azure/storage/blobs/storage-blob-static-website>

빌드 내역 복사하여 배포

- VS Code 확장, azure cli, Microsoft Storage Explorer 등을 활용하여 \$web 컨테이너로 빌드 내역을 복사합니다.
- Microsoft Storage Explorer



정적 웹사이트 설정 및 빌드 내역 복사하여 배포 (Demo)

Home > azfunctions-demo > azfunctions-demo > azfunctionsdemostorage

azfunctionsdemostorage | Access keys

Storage account

Search (Ctrl+ /)

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data transfer

Events

Storage Explorer (preview)

Settings

Access keys

Geo-replication

CORS

Configuration

Encryption

Shared access signature

Use access keys to authenticate your applications when making requests to this Azure storage account. Store your access keys securely - for example, using Azure Key Vault - and don't share them. We recommend regenerating your access keys regularly. You are provided two access keys so that you can maintain connections using one key while regenerating the other.

When you regenerate your access keys, you must update any Azure resources and applications that access this storage account to use the new keys. This action will not interrupt access to disks from your virtual machines. [Learn more about regenerating storage access keys](#)

Storage account name

azfunctionsdemostorage

Hide keys

key1

Key

Vd9EMvBZTFgDqRW/vjxFgsFBoKJdN03QEx4g7rvruGH1UxEUe8YF2u3H4pflHTwHPG7kud+i3a6gj6Rw/U6R/Q==

Connection string

DefaultEndpointsProtocol=https;AccountName=azfunctionsdemostorage;AccountKey=Vd9EMvBZTFgDqRW/vjxFgsFBoKJdN03QEx4g7rvruGH1UxEUe8YF2u3H4...

key2

Key

F1CZMCOVVre0+ORCLT3V/+vYKfrfwrMkcmM+hRP456iLQKVZFTdN4VTHu/74zLg1ej/fX74VfqAuH5TgVBq2w==

Connection string

13

다음 에피소드에서는 ...

- 지금까지 내용을 정리해보겠습니다.

Life is short.
You need Python and Django.

I will be your pacemaker.

