



#GlobalAzure
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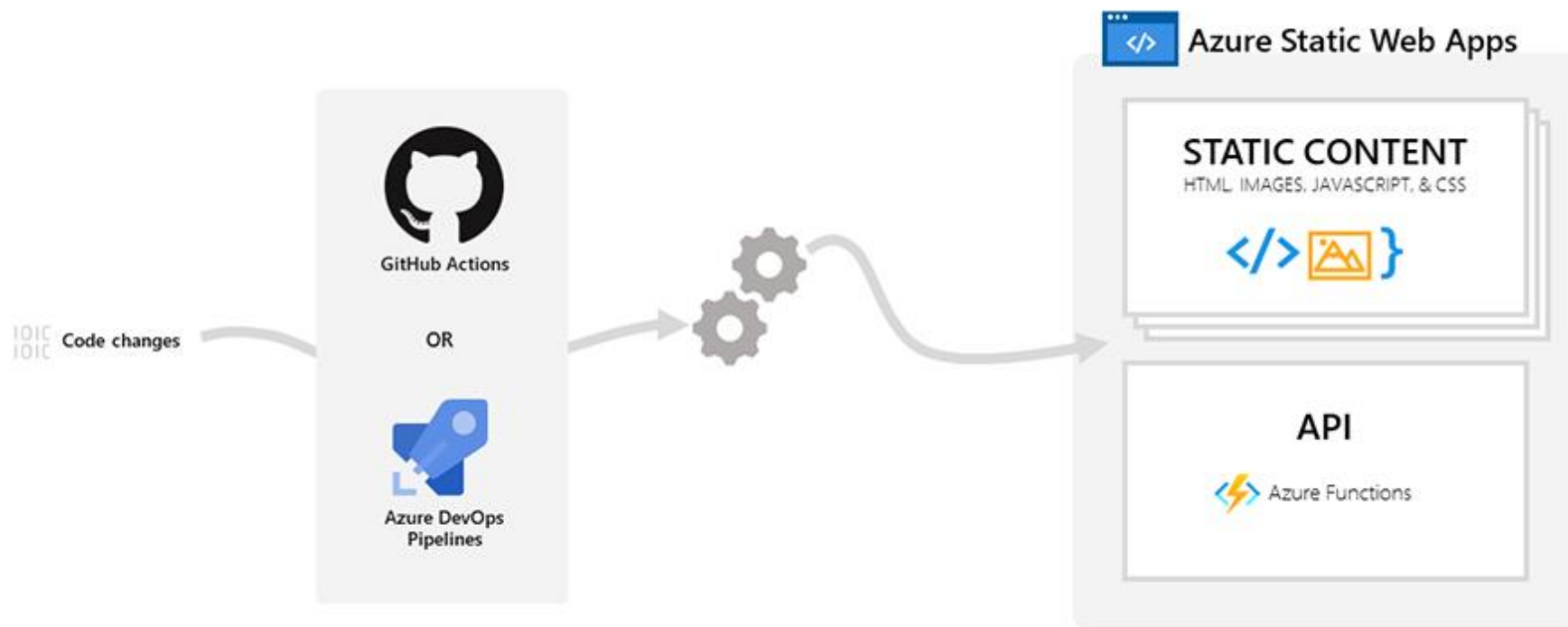
Data API Builder ed Azure Static Web Apps: amore a prima vista

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ABLE TECH

Azure Static Web Apps in due parole

"Streamlined full-stack development from source code to global high availability"

(fonte: <https://azure.microsoft.com/en-us/services/app-service/static/>)



Azure Static Web Apps: features

Web Hosting per contenuto statico

API Backend con Azure Functions / App Services / APIM / Azure Container Apps

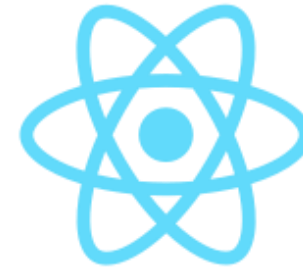
CI / CD integrata con GitHub / Azure DevOps

Distribuite globalmente

Custom domains / Certificati SSL Free

Autenticazione integrata (GitHub, Twitter, Azure AD, etc..)

Ambienti di Staging generati tramite PR



Azure Static Web Apps: configurazione

File *staticwebapp.config.json* posizionato nella folder che contiene il progetto client

Routing

Authentication / Authorization

Regole di Fallback

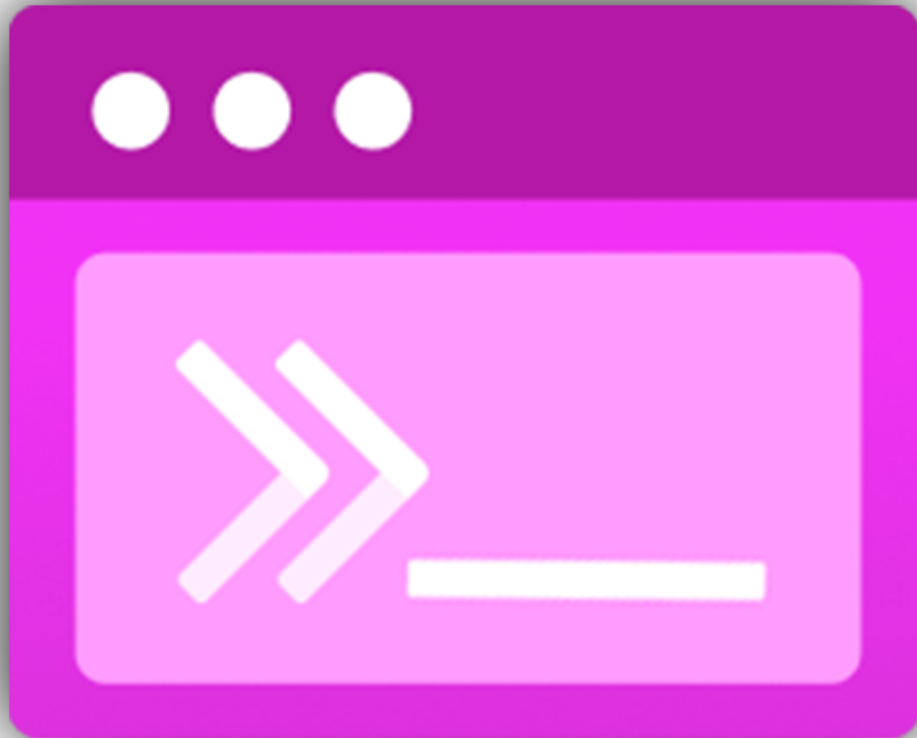
Override di risposte HTTP

Gestione Headers HTTP

fonte: [Configure Azure Static Web Apps | Microsoft Docs](#)

```
"routes": [  
  {  
    "route": "/api/*",  
    "allowedRoles": [ "authenticated" ]  
  },  
  {  
    "route": "/img/*",  
    "headers": {  
      "Cache-Control": "age=15770000"  
    }  
  }  
],  
"navigationFallback": {  
  "rewrite": "index.html",  
  "exclude": [ "/img/*.{png,jpg,gif}", "/css/*" ]  
},  
"responseOverrides": {  
  "404": {  
    "rewrite": "/404.html"  
  }  
}
```

Azure Static Web Apps CLI



<https://github.com/Azure/static-web-apps-cli>

```
> npm install -g @azure/static-web-apps-cli
```

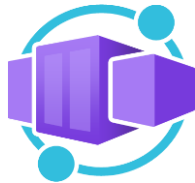
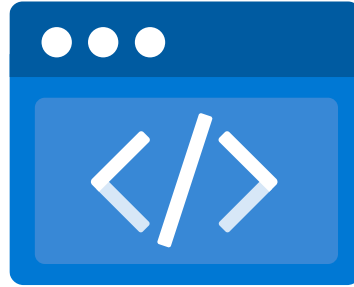
```
> swa init
```

```
> swa start [context] [options]
```

Sia frontend che backend girano su
<http://localhost:4280>

Emulazione Authentication / Authorization

Un backend per tutte le stagioni



Data API Builder..chi?!

Data API builder for Azure Databases provides modern REST and GraphQL endpoints to your Azure Databases.

<https://learn.microsoft.com/en-us/azure/data-api-builder/>

Generazione di endpoint REST e/o GraphQL

Azure SQL, PostgreSQL, Cosmos DB, MySQL

Supporto a tabelle, viste e stored procedure

Autenticazione con EasyAuth / OAuth2 e JWT

Autorizzazione role-based e item-level security

Caching utilizzando [FusionCache](#)

Open Source: <https://github.com/Azure/data-api-builder>

<https://learn.microsoft.com/en-us/azure/data-api-builder/overview-to-data-api-builder?tabs=azure-sql>

Pronti, partenza...dab

```
dotnet tool install --global Microsoft.DataApiBuilder
```

```
dab init --database-type «mssql» --connection-string «<connection_string>»
```

```
dab add Entity --source dbo.table --permissions «anonymous:*»
```

```
dab start
```


Azure SWA <3 Data API Builder

```
swa db init --database-type mssql
```

Crea un file *staticwebapp.database.config.json* in una folder *swa-db-connections*

Tutti gli endpoint sono esposti con il prefisso *data-api/**

```
swa start --data-api-location swa-db-connections
```

<Demo />

Quanto mi costi?

	Free (For hobbies/personal projects)	Standard (For general purpose production app)
Price	Free*	€8.312/per app/month**
Included Bandwidth	100 GB per subscription	100 GB per subscription
Bandwidth Overage		Subscription
Customised Domains		
SSL Certificates		
Service Defined Authentication		
Customised Authentication		
Storage (Included Qty. / Max Size per Deployment)	0.50 GB / 0.25 GB / per app	2.00 GB / 0.50 GB / per app
Azure Functions ¹	Managed	Managed or Bring your own
Enterprise-grade edge	N/A	€16.180/per app/month
Database connections	Free during public preview	Free during public preview
SLA	N/A	✓

Data API Builder è FREE

Concludendo

Per applicazioni che leggono e scrivono su un DB, Data API Builder permette di essere molto rapidi

L'integrazione con Azure Static Web App è molto immediata e semplice da configurare

La paginazione si basa su continuation token, può non essere così semplice gestire back

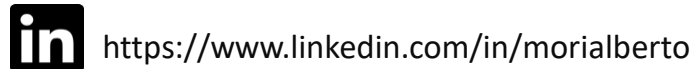
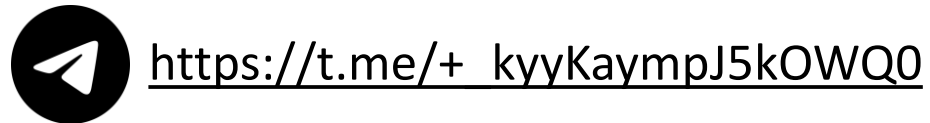


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GRAZIE!!!

Le slide saranno disponibili sulla pagina
Global Azure 2024 del sito di Azure Meetup Milano

Rimaniamo in contatto



Risorse

Demo: <https://github.com/albx/cloud-library>

Documentazione Data API Builder: <https://learn.microsoft.com/en-us/azure/data-api-builder/>

Documentazione Azure Static Web Apps: <https://learn.microsoft.com/en-us/azure/static-web-apps/>

Azure Static Web Apps – Database connection:

<https://learn.microsoft.com/en-us/azure/static-web-apps/database-overview>