



DA ZERO AD AZURE STATIC WEB APPS

ALBERTO MORI

ABLE TECH SRL

 @albx87

SPONSOR

DIAMOND



GUCCI

splunk>



PLATINUM

improve



GOLD

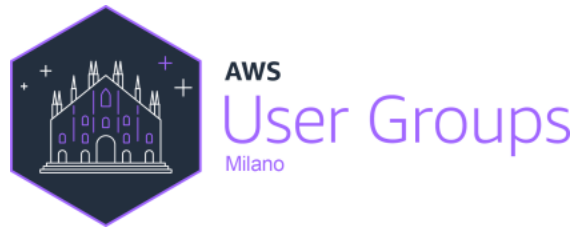


CODICEPLASTICO



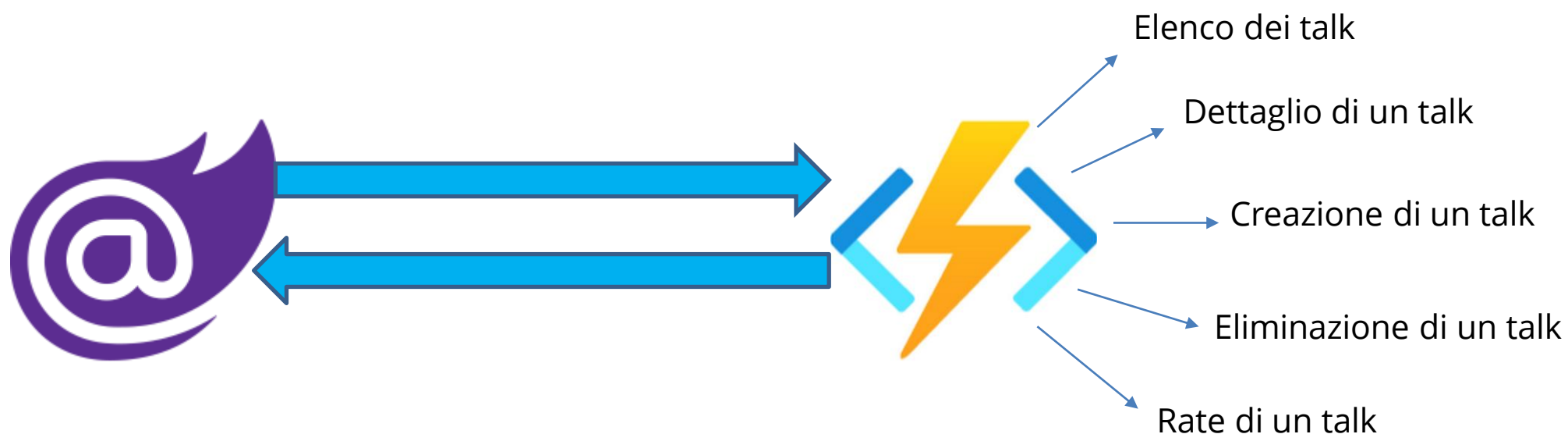
Cubbit

PARTNER



Il nostro contesto

Una semplice web application per gestire l'agenda di un evento:



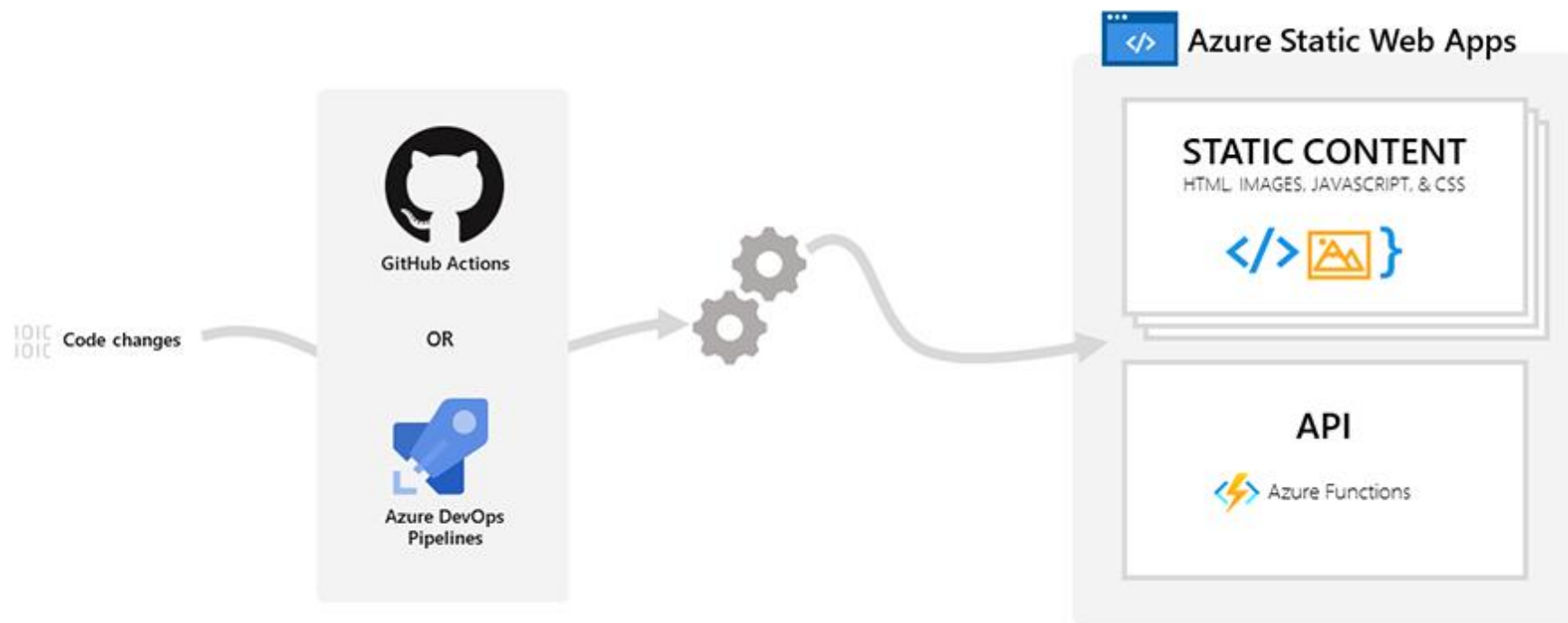
Menu del giorno

- Cosa è Azure Static Web Apps
- Quali feature ci offre
- Provisioning e configurazione
- Debug in locale
- Autenticazione e gestione dei ruoli

Azure Static Web App in una frase

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

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



Features

Web hosting per contenuto statico

API Backend con Azure Functions *

CI / CD integrata con GitHub / Azure DevOps

Distribuite globalmente

Custom domains / Certificato SSL free

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

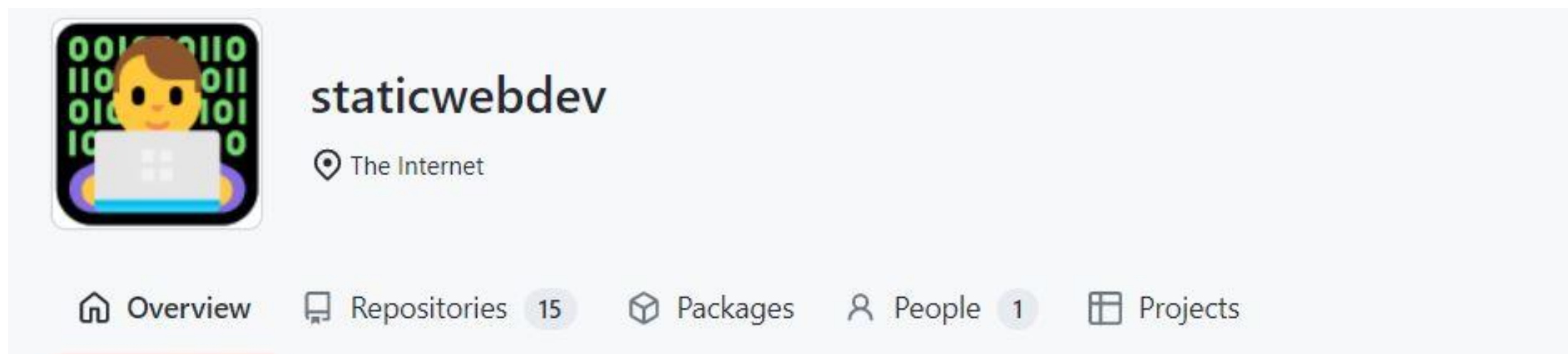
Ambienti di staging generati tramite PR

** In preview supporto per App Services / APIM / Azure Container Apps*



Da dove posso cominciare?

<https://www.github.com/staticwebdev>



The image shows a GitHub profile for the user 'staticwebdev'. The profile picture is a cartoon character with brown hair and a yellow face, sitting at a laptop with a blue keyboard. The background of the profile picture is black with green binary code (0s and 1s). To the right of the profile picture, the username 'staticwebdev' is displayed in a large, bold, black font. Below the username, there is a location pin icon followed by the text 'The Internet'. At the bottom of the profile header, there is a navigation bar with five items: 'Overview' (with a house icon), 'Repositories' (with a folder icon and a badge showing '15'), 'Packages' (with a cube icon), 'People' (with a person icon and a badge showing '1'), and 'Projects' (with a grid icon). The 'Overview' item is currently selected, indicated by a red underline.

Configurazione

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

Routing

Authentication / Authorization

Regole di fallback

Override delle risposte HTTP

Gestione degli Headers HTTP

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

```
"routes": [  
  {  
    "route": "/api/*",  
    "allowedRoles": [ "authenticated" ]  
  },  
  {  
    "route": "/login/github",  
    "rewrite": "/.auth/login/github"  
  },  
  {  
    "route": "/logout",  
    "redirect": "/.auth/logout"  
  },  
  {  
    "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



<DEMO />

Autenticazione

Autenticazione integrata con Azure AD, GitHub, Twitter (Facebook e Google in preview)

Autenticazione custom basata su OpenID (**solo per piano Standard**)

<https://blazordev.it/articoli/azure-b2c-con-blazor-wasm-su-azure-static-web-apps/>

Generazione di un invito tramite Azure Portal e assegnazione dei ruoli all'utente

Tutti gli endpoint relativi si trovano al prefisso */.auth*

Le informazioni dell'utente vengono passate in un header della richiesta HTTP

Protezione degli endpoint tramite file di configurazione

<DEMO />

E se...avessi già un Backend?

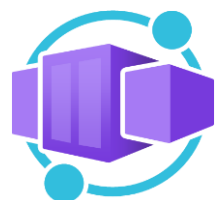
Per il piano **Standard** è possibile associare un backend esistente



Azure Functions



App Service *



Azure Container Apps *



API Management *

** Attualmente in preview*

<DEMO />



E IO PAGO!

	Free (For hobbies/personal projects)	Standard (For general purpose production app)
Price	Free*	€9.346/per app/month**
Included Bandwidth	100 GB per subscription	100 GB per subscription
Bandwidth Overage	N/A	€0.208 per GB per subscription
Customised Domains	2 per app	5 per app
SSL Certificates	Free	Free
Service Defined Authentication	✓	✓
Customised Authentication	N/A	✓
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	€18.193/per app/month
SLA	N/A	✓

* If your site exceeds these usage quotas, we will not be able to serve your site.

** Monthly price estimates are based on 730 hours of usage per month.

¹ Customers can add integrated serverless APIs implemented with Azure Functions to their Azure Static Web Apps resources at [Azure Functions Consumption plan rates](#).

Grazie!



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Risorsse

- <https://azure.microsoft.com/en-us/products/app-service/static/>
- <https://azure.microsoft.com/en-us/pricing/details/app-service/static/>
- <https://learn.microsoft.com/en-us/azure/static-web-apps/>
- <https://github.com/albx/cloudday22-swa>
- <https://github.com/albx/cloudday22-swa-minimalapi>