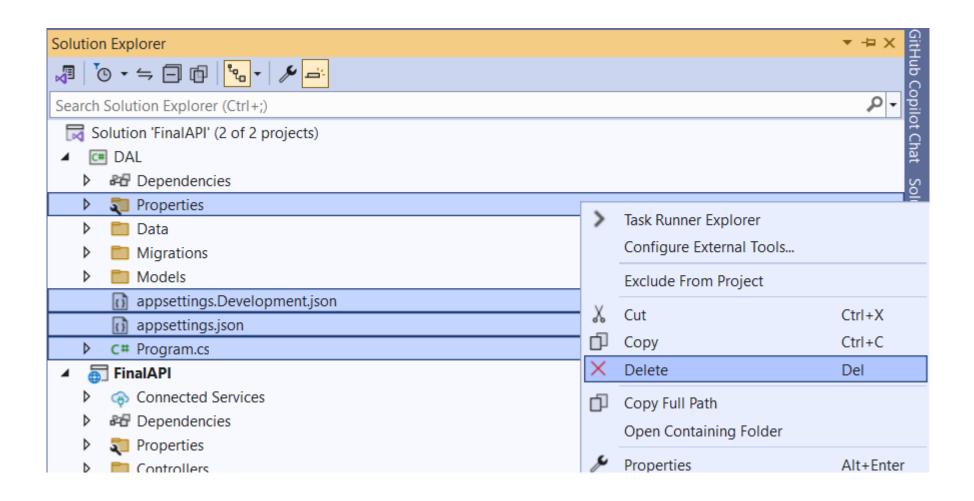
# Azure Deployment

## class library לפרוייקט DAL נהפוך את הפרוייקט

```
DAL + X

    <Project Sdk="Microsoft.NET Sdk">
               <PropertyGroup>
                 <TargetFramework>net8.0/TargetFramework>
                 <Nullable>enable</Nullable>
                 <ImplicitUsings>enable</ImplicitUsings>
      6
                 <OutputType>Library
               </PropertyGroup>
               <ItemGroup>
     10
     11
                 <PackageReference Include="Microsoft.AspNetCore.Identity.EntityFramework"</pre>
                 <PackageReference Include="Microsoft.EntityFrameworkCore.SqlServer" Vers.</pre>
     12
                 <PackageReference Include="Microsoft.EntityFrameworkCore.Tools" Version=</pre>
     13
                   <PrivateAssets>all</PrivateAssets>
     14
                   <IncludeAssets>runtime; build; native; contentfiles; analyzers; buildt:
     15
                 </PackageReference>
     16
                 <PackageReference Include="Microsoft.VisualStudio.Web.CodeGeneration.Des.</pre>
     17
                 <PackageReference Include="Swashbuckle.AspNetCore" Version="6.4.0" />
     18
               </ItemGroup>
     19
     20
             </Project>
     21
```

# class library לפרוייקט DAL נהפוך את הפרוייקט



# Entity Framework Core של Design נוסיף את החבילה לפרוייקט הראשי שלנו כדי שנוכל להריץ

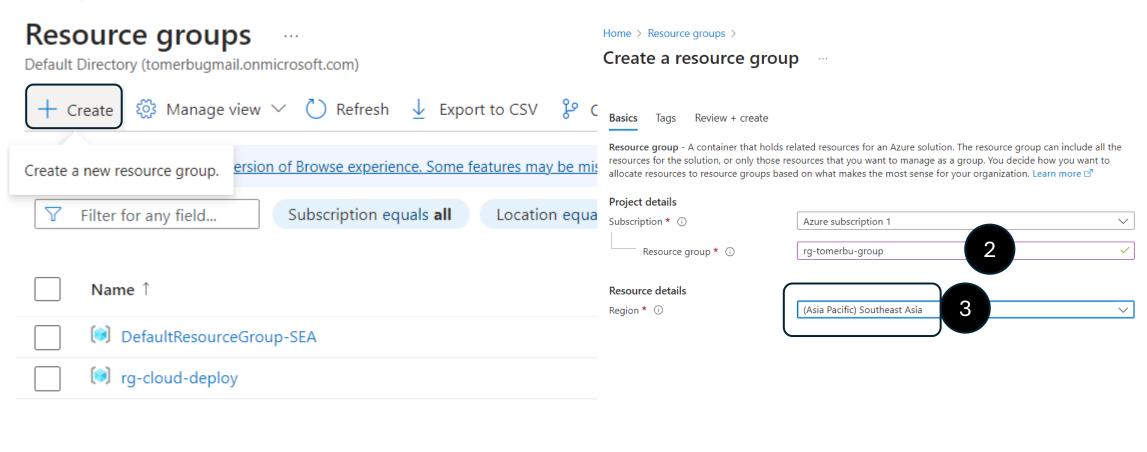
Nîçsộşộğt ÉŋtfîtfyGsắnêxộslCộsê Dêşîĝŋ

```
Comment.cs
                                    DAL.cspro
Project Sdk="Microsoft.NET.Sdk.Web">
 <PropertyGroup>
   <TargetFramework>net8.0</TargetFramework>
   <Nullable>enable</Nullable>
   <ImplicitUsings>enable</ImplicitUsings>
 </PropertyGroup>
                    Enable implicit global usings for the C# project. Possible
                     values are enable, true, and disable.
 <ItemGroup>
   <PackageReference Include="Microsoft.AspNetCore.Authentication.JwtBearer" Version="8.0.8" />
   <PackageReference Include="Microsoft.AspNetCore.Identity.EntityFrameworkCore" Version="8.0.8</pre>
   <PackageReference Include="Swashbuckle.AspNetCore" Version="6.4.0" />
   <PackageReference Include="Microsoft.EntityFrameworkCore.Design" Version="8.0.4" />
 /ItemGroup>
```

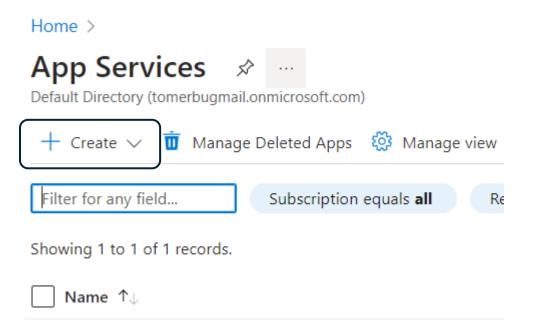
<ItemGroup>

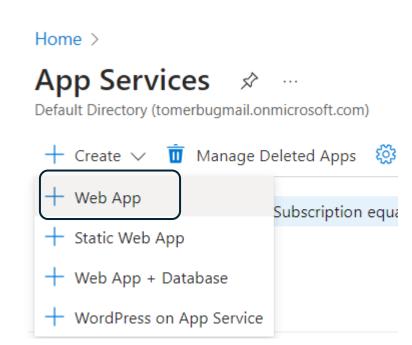
## Resource Group יצירת

#### Home >



## App Service יצירה של





# אינירה של App Service יצירה

#### Home > App Services >

### Create Web App

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources. Subscription \* (i) Azure subscription 1 Resource Group \* (i) rg-cloud-deploy Create new **Instance Details** hackeru Name .azurewebsites.net Try a unique default hostname (preview). More about this update ♂ Code Container Publish \* Runtime stack \* .NET 8 (LTS) Linux Windows Operating System \* Southeast Asia Region \* 1 Not finding your App Service Plan? Try a different region or select your App Service Environment. Review + create Next : Deployment > < Previous

#### Home > App Services >

# יצירה של Service רצירה של CI/CD הגדרות

### Create Web App

Basics	Deployment	Networking	Monitor + secure	Tags	Review + create					
Continuous deployment settings										
Set up continuous deployment to easily deploy code from your GitHub repository via GitHub Actions. Learn more										
Continuo	us deployment	1	Disable Enabl	е						
GitHub s	ettings									
Set up GitHub Actions to push content to your app whenever there are code changes made to your repository. Note: Your GitHub account must have write access to the selected repository in order to add a workflow file which manages deployments to your app.										
GitHub ac	count	[-	TomerBu  Change account	(1)						
Organizat	ion *		TomerBu		~					
Repositor	y <b>*</b>		D290323ER		~					
Branch *			main		<u> </u>					

#### Workflow configuration

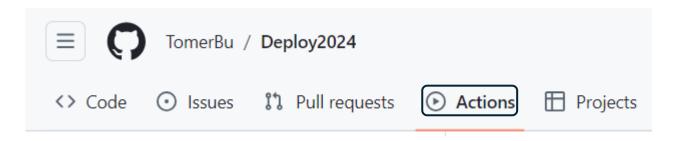
Click the button below to preview what the GitHub Actions workflow file will look like before setting up continuous deployment.

Review + create

< Previous

Next : Networking >

# יצירה של Service רצירה של CI/CD



הגדרות CI/CD בגיטהאב

```
עריכת קובץ הworkflow
(בפרוייקט שלנו יש מספר תיקיות ולכן
הקוד הסנטדרטי דורש מעט שינויים)
```

הגדרות CI/CD בגיטהאב

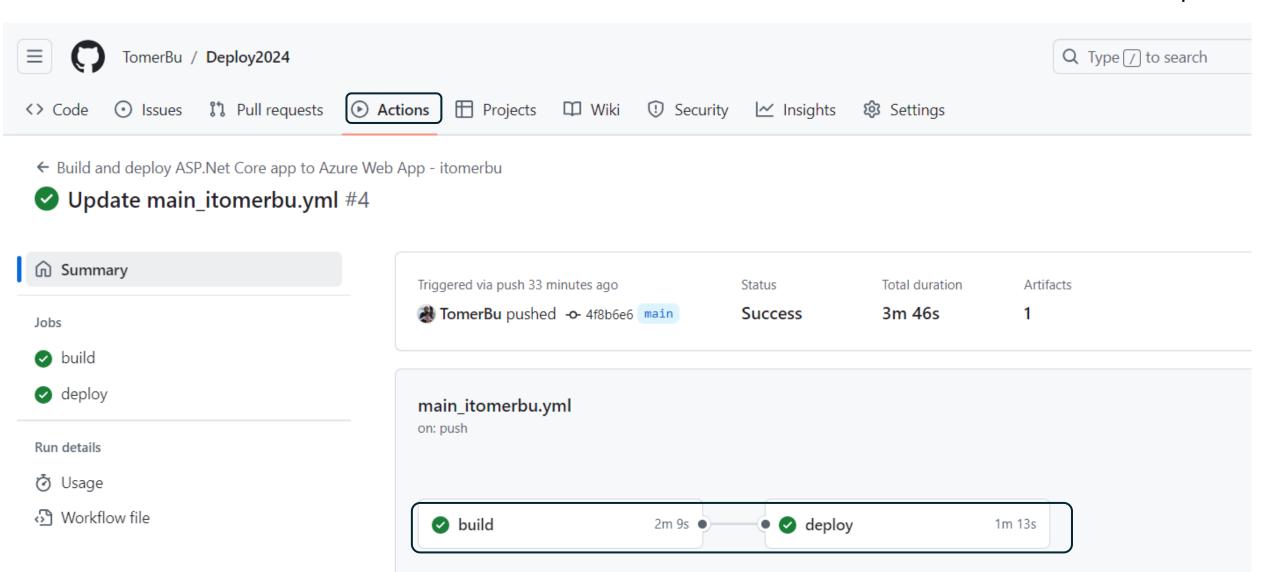
```
# More GitHub Actions for Azure: https://github.com/Azure/actions
     name: Build and deploy ASP.Net Core app to Azure Web App - itomerbu
     on:
       push:
         branches:
           - main
       workflow dispatch:
11
     jobs:
13
       build:
14
         runs-on: windows-latest
15
16
         steps:
           - uses: actions/checkout@v4
17
18
           - name: Set up .NET Core
19
             uses: actions/setup-dotnet@v4
20
21
             with:
               dotnet-version: '8.x'
22
23
24
           - name: Build with dotnet
25
             run: dotnet build ./FinalAPI/FinalAPI.sln --configuration Release
26
           - name: dotnet publish
27
28
             run: dotnet publish ./FinalAPI/FinalAPI/FinalAPI.csproj -c Release -o ["${{env.DOTNET ROOT}}/myapp"
```

Docs for the Azure Web Apps Deploy action: https://github.com/Azure/webapps-deploy

הפקודה דורשת מרכאות

# יצירה של Service רצירה של CI/CD

בדיקה שהכל עובד:



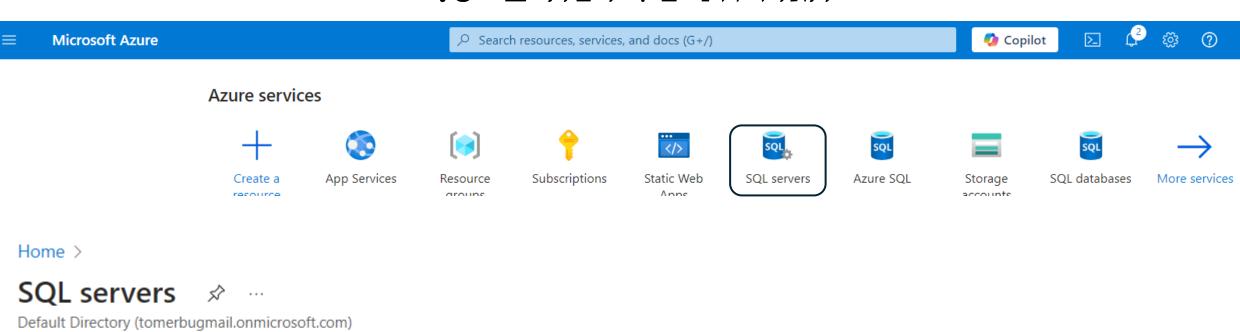
# production במצב SwaggerUI אפשור של (API) מאפשר לנו גם דוקומנטציה וגם בדיקות של ה

```
Program.cs + X
FinalAPI
                                          83
                         });
       84
                         var app = builder.Build();
       85
       86
                         app.UseCors(corsPolicy);
       87
       88
                            Configure the HTTP request pipeline.
       89
                         //if (app.Environment.IsDevelopment())
       90
       91
                             app.UseSwagger();
       92
                             app.UseSwaggerUI();
       93
       94
        \circ
```

עכשיו נבצע Commit חדש לגיטהאב ונראה שצד לקוח מתחבר לצד השרת

https://itomerbu.azurewebsites.net/swagger/index.html

## הגדרות של דטה-ביים:





+ Create

Manage view 
 ✓ Refresh 
 ✓ Expo





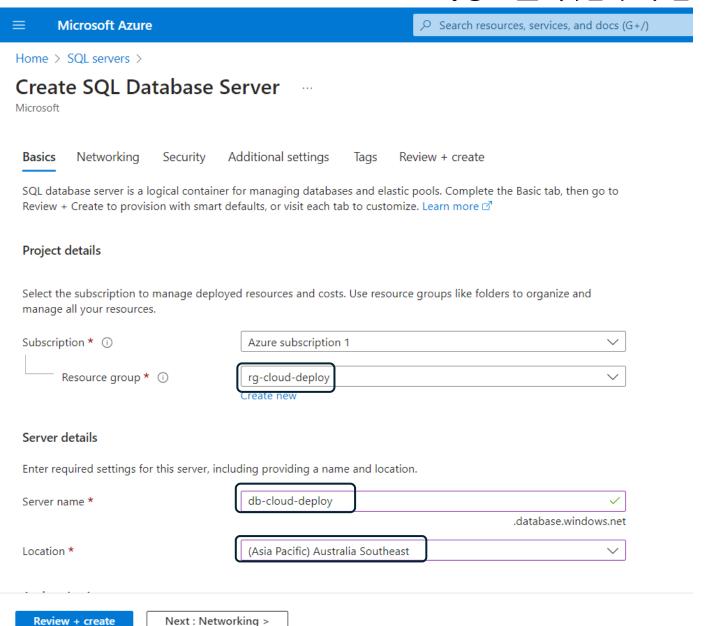
Filter for any field...

Subscription equals all

Showing 0 to 0 of 0 records.

Name ↑↓

## הגדרות של דטה-ביים:



נגלול למטה לעוד הגדרות חשובות

## הגדרות של דטה-ביים:

#### Authentication



Azure Active Directory (Azure AD) is now Microsoft Entra ID. Learn more

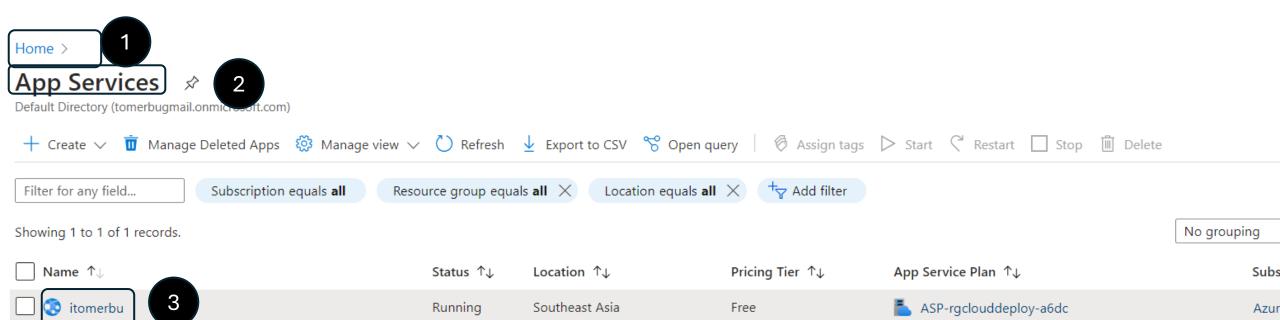
Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Microsoft Entra authentication Learn more  $\underline{\mathbf{c}}$  using an existing Microsoft Entra user, group, or application as Microsoft Entra admin Learn more  $\underline{\mathbf{c}}$ , or select both SQL and Microsoft Entra authentication.

Authentication method	Use Microsoft Entra-only authentication Use both SQL and Microsoft Entra authentication  Use SQL authentication			
Server admin login *	itomerbu	~		
Password *		~		
Confirm password *		~		

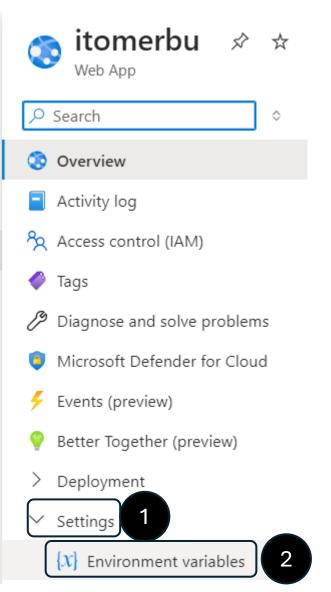
Review + create

Next : Networking >

# בענן connection string בענן

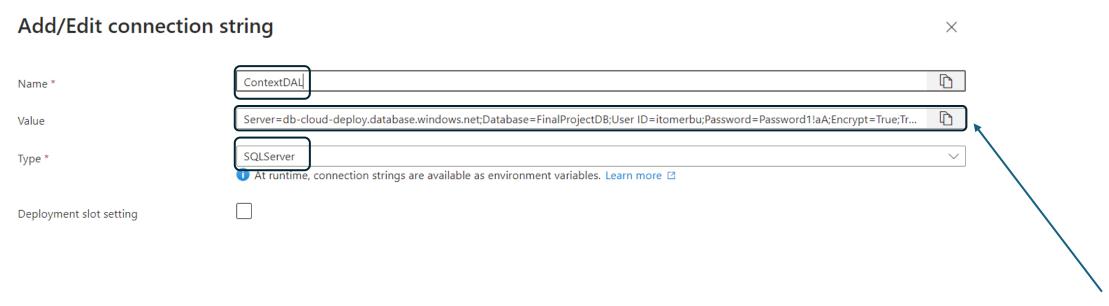


# בענן connection string בענן





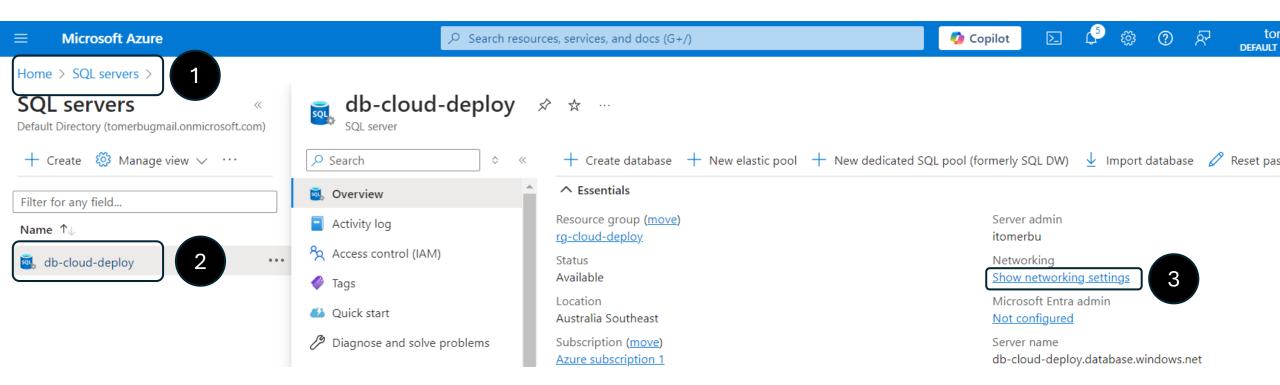
# בענן connection string הגדרה של ה



Server=db-cloud-deploy.database.windows.net;Database=FinalProjectDB;User ID=itomerbu;Password=Password1!aA;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;

## הפעלה של המיגרציות עם העלאת השרת:

```
var app = builder.Build();
app.UseCors(corsPolicy);
// Apply pending migrations at startup
using (var scope = app.Services.CreateScope())
    var services = scope.ServiceProvider;
    try
        var context = services.GetRequiredService<ContextDAL>();
        context.Database.Migrate();
    catch (Exception ex)
        Console.WriteLine($"An error occurred while migrating the database: {ex.Message}");
                         עכשיו נבצע Commit חדש לגיטהאב ונראה שהדטה-בייס עובד
```



Rule Virtual network Subnet Address ra... Endpoint sta... Resource gro... Subscripti... State

#### Firewall rules

Allow certain public internet IP addresses to access your resource. Learn more □

+ Add your client IPv4 address (46.117.232.143) + Add a firewall rule

Rule name Start IPv4 address End IPv4 address

ClientIPAddress 2024-10-27 16-35-1

46.117.232.143

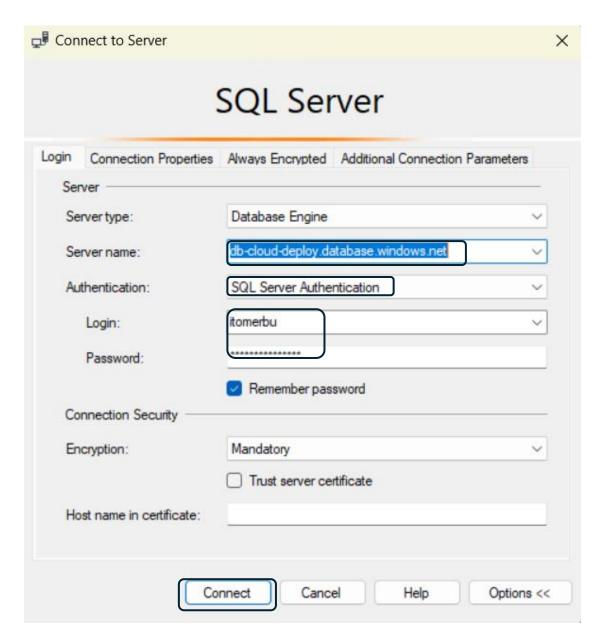
46.117.232.143

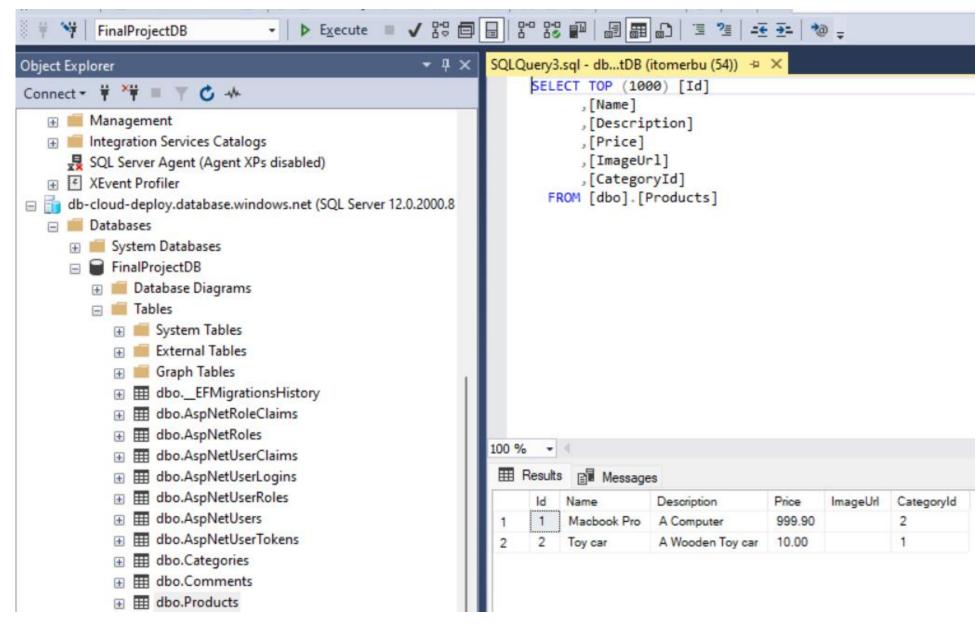


Exceptions

✓ Allow Azure services and resources to access this server (i)

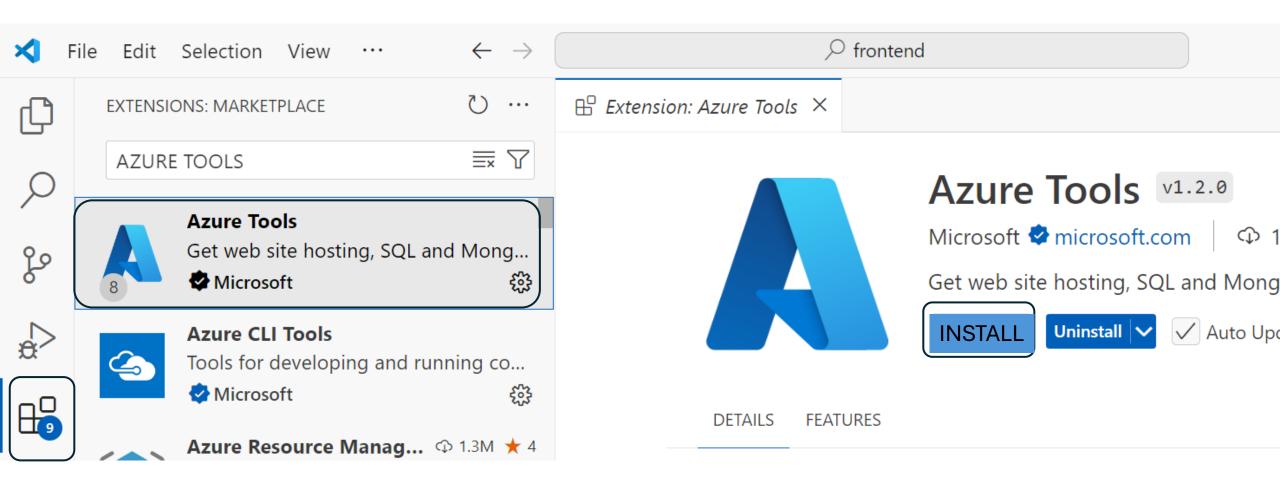
Save Discard





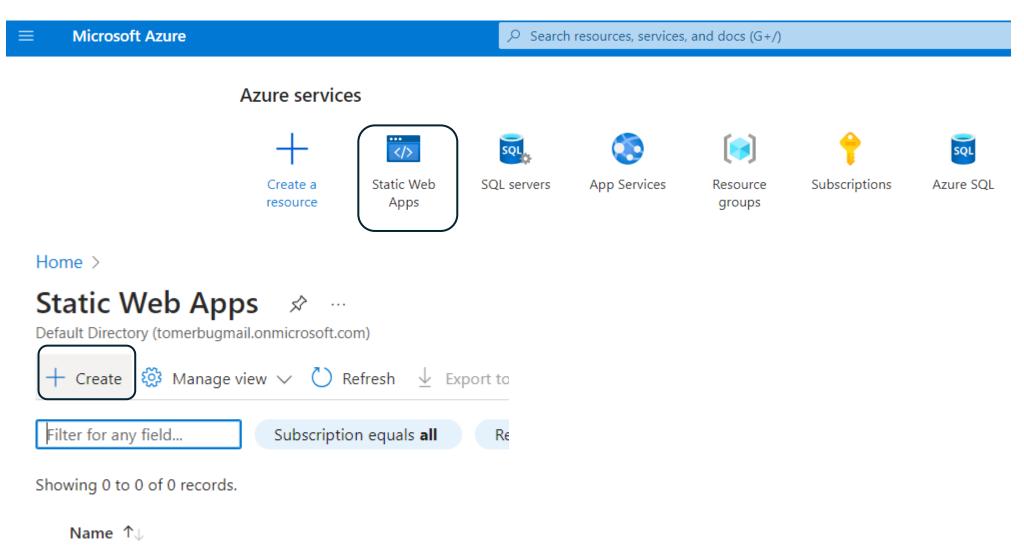
```
## .env.production X
## .env.production

1 VITE_BASE_URL=https://itomerbu.azurewebsites.net/api
2 VITE_MODE=production
```



```
vite.config.ts X
vite.config.ts > ...
      import { defineConfig } from 'vite'
      import react from '@vitejs/plugin-react'
      // https://vitejs.dev/config/
      export default defineConfig({
        plugins: [react()],
 6
        base: "./",
```

```
package.json X
package.json > { } scripts
   5
         "type": "module",
          Debug
         "scripts": {
  6
            "prod": "vite --mode production",
  8
            "dev": "vite",
           "build": "tsc -b && vite build --mode production",
            "lint": "eslint . --ext ts,tsx --report-unused-disa
  10
            "preview": "vite preview"
  11
  12
                                                     npm run build
         "dependencies": {
  13
                                                      cd dist
            "axios": "^1.7.7",
  14
                                                     npx serve
```



### Create Static Web App

< Previous

Review + create

# :העלאת פרוייקט צד לקוח Azure Portal

Basics	Advanced	Tags	Review + create			
			streamlined, highly efficient solution to take your static app from source codutent is distributed globally with no web servers required. Learn more $\square$	e to global		
Project	Details					
	subscription to resources.	manage o	eployed resources and costs. Use resource groups like folders to organize a	nd manage		
Subscrip	otion * ①		Azure subscription 1	~		
	Resource Group	* (i)	rg-cloud-deploy	~		
			Create new			
Static V	Veb App detail	S				
Name *			react	<b>✓</b>		
Hosting	n nlan					
_		s your ba	ndwidth, custom domain, storage, and other available features. Compare pla	ns		
Plan type			Free: For hobby or personal projects			
			O Standard: For general purpose production apps	Standard: For general purpose production apps		
			O Dedicated (preview): For general purpose production apps			

Next : Advanced >

### **Create Static Web App**

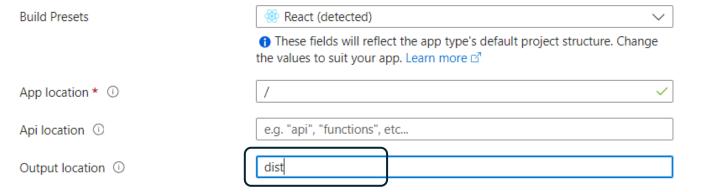
# העלאת פרוייקט צד לקוח:

1) If you can't find an organization or repository, you might need to enable additional permissions of the have write access to your chosen repository to deploy with GitHub Actions.

Organization *	TomerBu	~
Repository *	DeployClient2024	~
Branch *	main	~

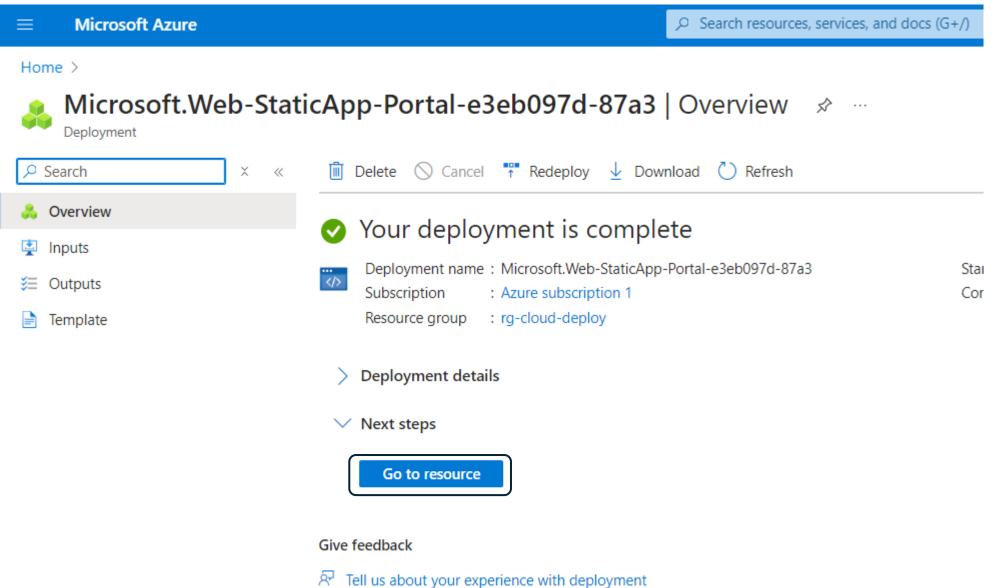
#### **Build Details**

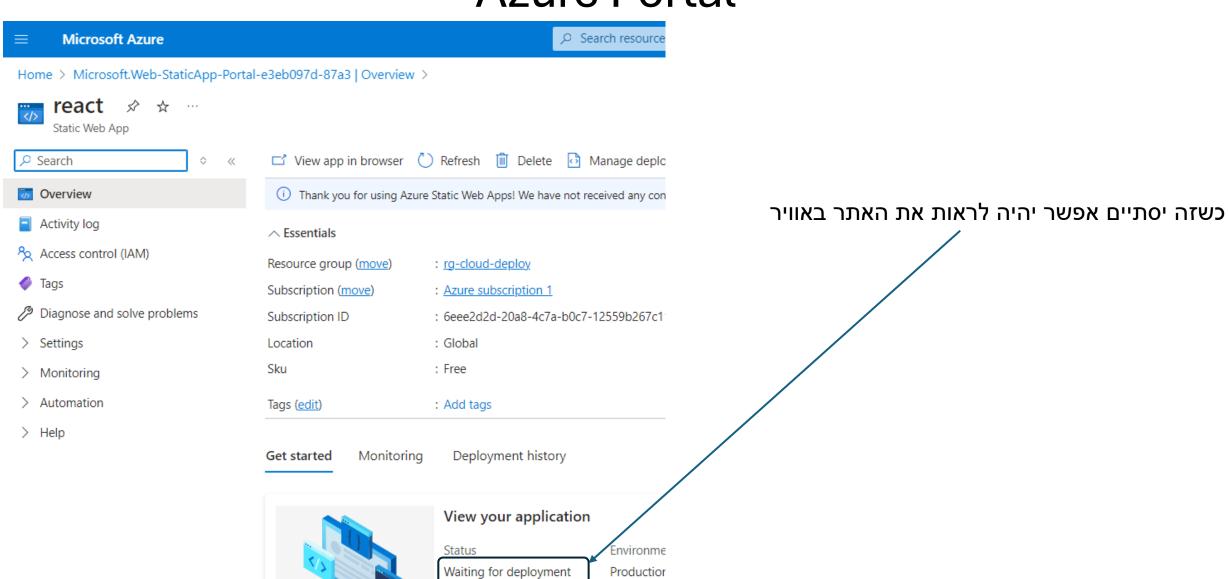
Enter values to create a GitHub Actions workflow file for build and release. You can modify the workflow file later in your GitHub repository.



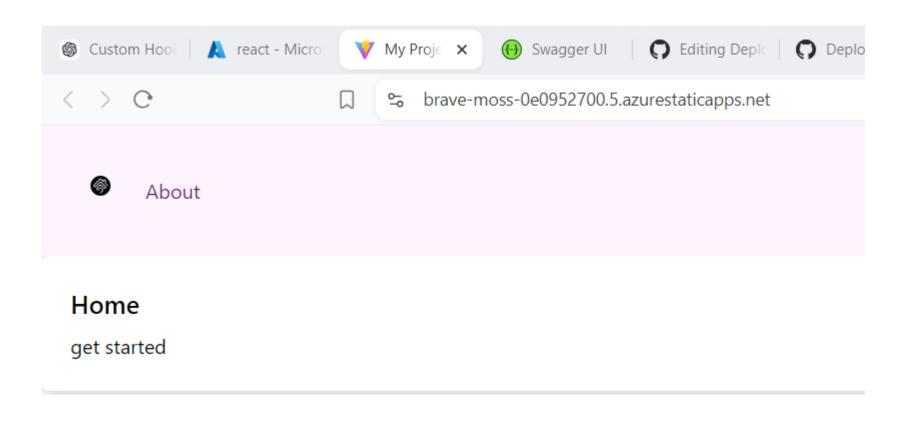
#### Workflow configuration

Click the button below to preview what the GitHub Actions workflow file will look like before setting up continuous deployment.





Visit your site



⊚ עובד

עכשיו רק נשאר להגדיר הגדרות CORS בצד שרת וסיימנו את כל התהליך

## עדכון הגדרות Cors בצד שרת

```
Program.cs ≠ X
                                            ▼ SFinalAPI.Program
FinalAPI
                                                                                           ▼ Main(string[] args)
        OO
                          var corsPolicy = "CorsPolicy";
        66
        67
                          //var host = builder.Configuration.GetValue<string>("AllowedHosts");
        68
                          builder.Services.AddCors(options =>
        69
        70
                               options.AddPolicy(name: corsPolicy, policy =>
        71
        72
                                   policy.WithOrigins([
        73
                                            "http://localhost:3000",
        74
                                            "http://localhost:5173",
        75
                                            "http://localhost:5174"
        76
                                            "<u>https://brave-moss-0e0952700.5.azurestaticapps.net/</u>"
        77 🖫
                                            //host
        78
                                        1)
        79
```

עכשיו נבצע Commit חדש לגיטהאב ונראה שצד לקוח מתחבר לצד השרת