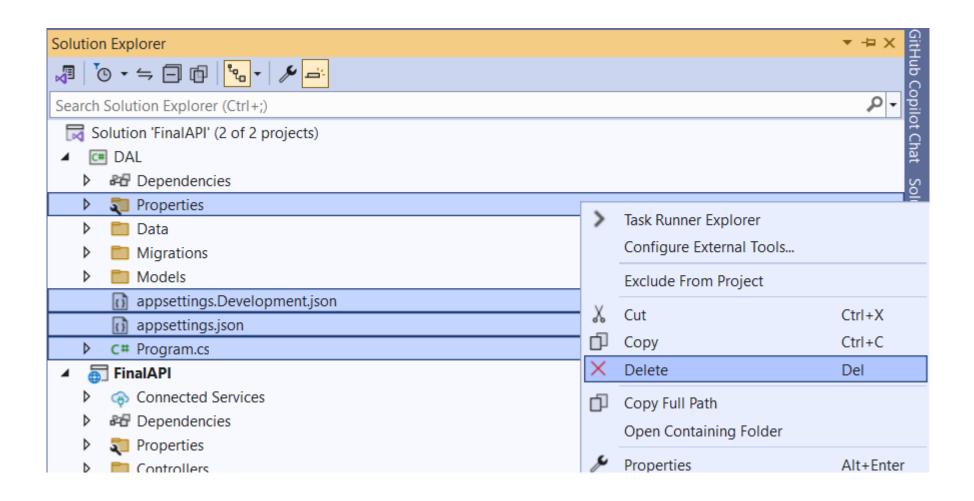
Azure Deployment

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

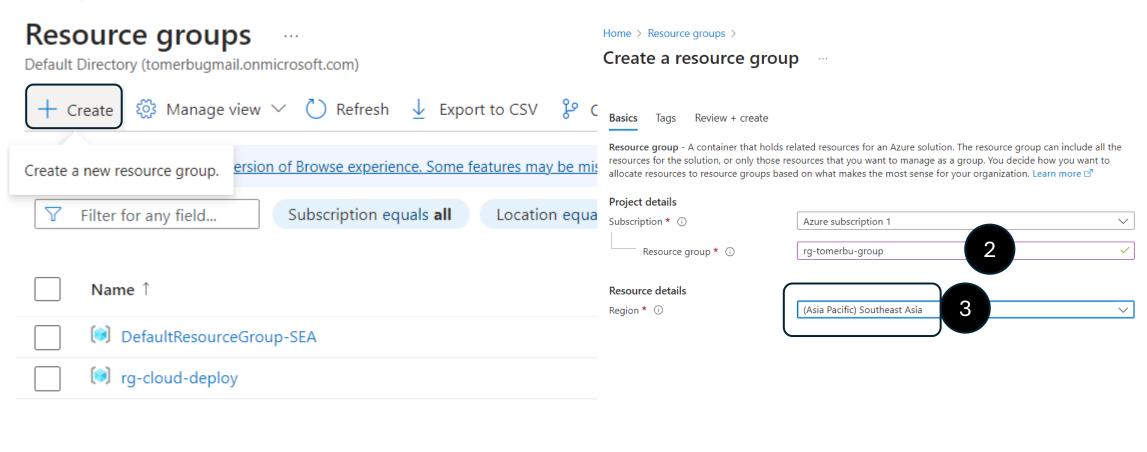
Nîçsộşộğt ÉŋtfîtfyGsắnêxộslCộsê Dêşîĝŋ

```
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>
```

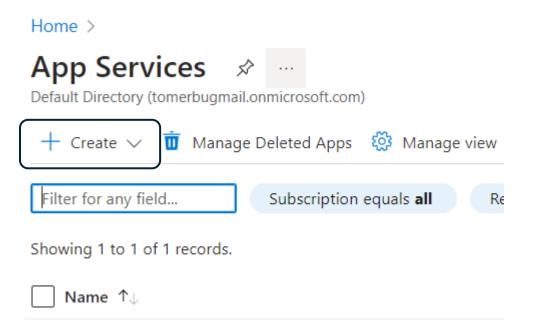
<ItemGroup>

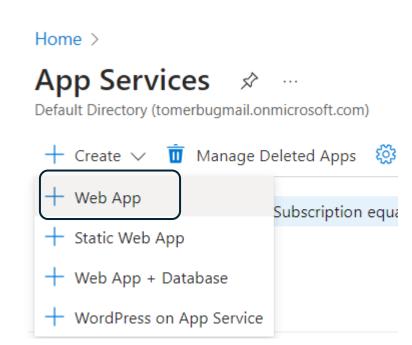
Resource Group יצירת

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 *		D290323ER		~					
Branch *			main		<u> </u>					

Workflow configuration

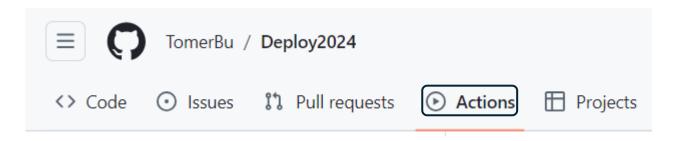
Click the button below to preview what the GitHub Actions workflow file will look like before setting up continuous deployment.

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

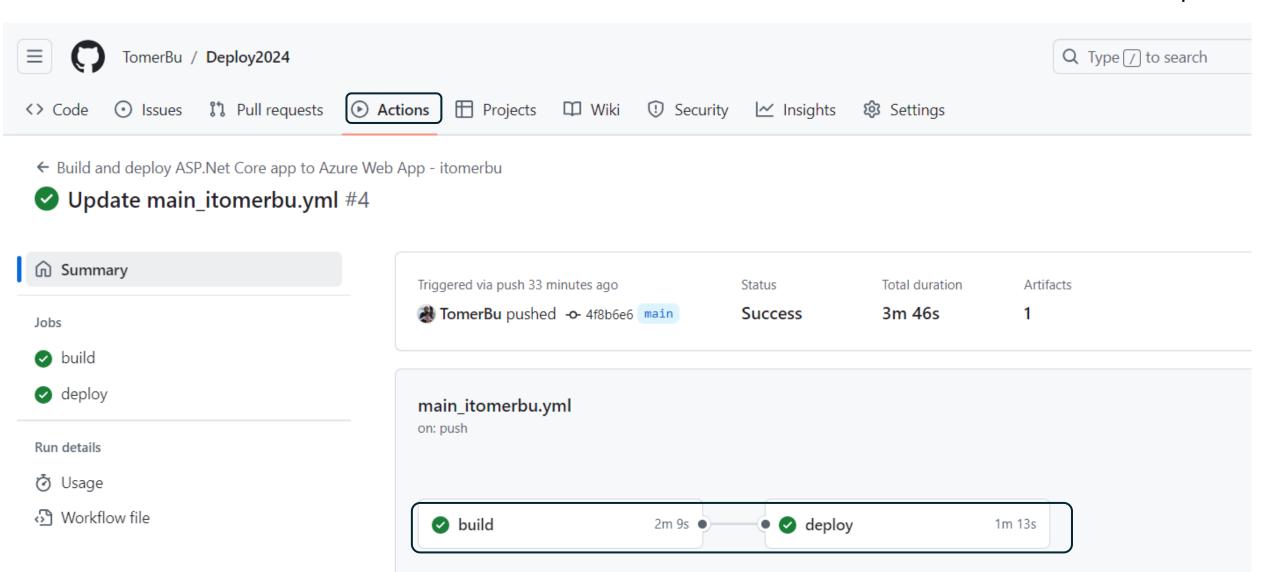
25
             run: dotnet build ./FinalAPI/FinalAPI.sln --configuration Release
26
           - name: dotnet publish
27
28
             run: dotnet publish ./FinalAPI/FinalAPI/FinalAPI.csproj -c Release -o ["${{env.DOTNET ROOT}}/myapp"
```

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:



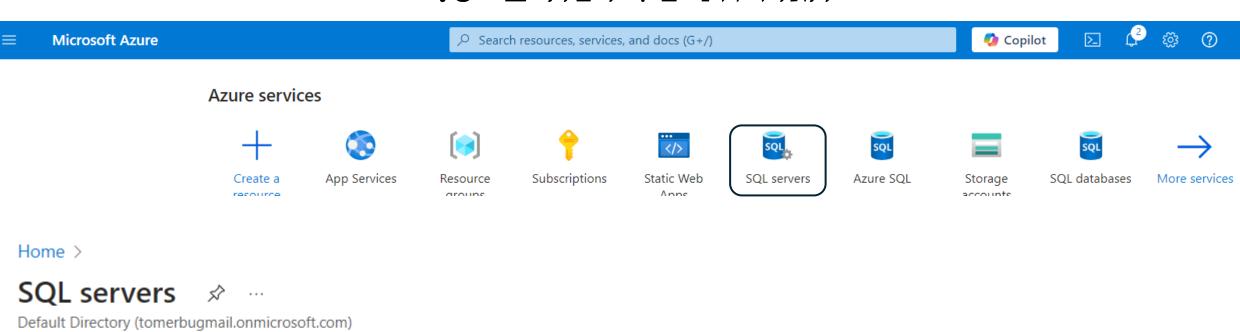
production במצב SwaggerUI אפשור של (API) מאפשר לנו גם דוקומנטציה וגם בדיקות של ה

```
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





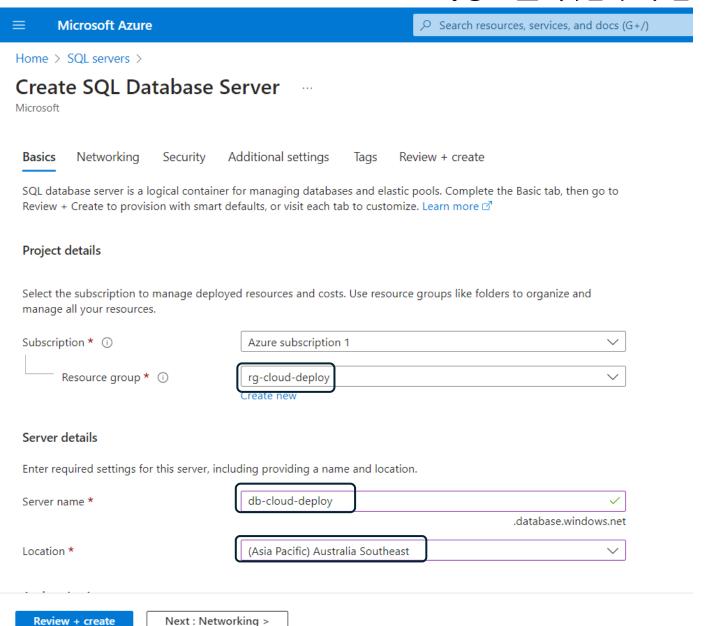
Filter for any field...

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

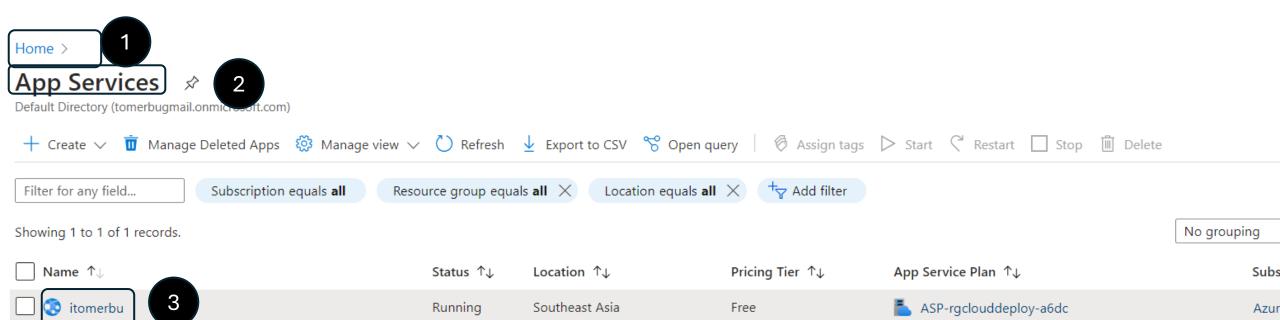
Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Microsoft Entra authentication Learn more $\underline{\mathbf{c}}$ using an existing Microsoft Entra user, group, or application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

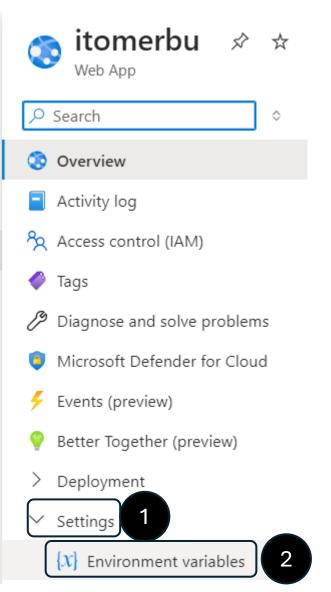
Review + create

Next : Networking >

בענן connection string בענן

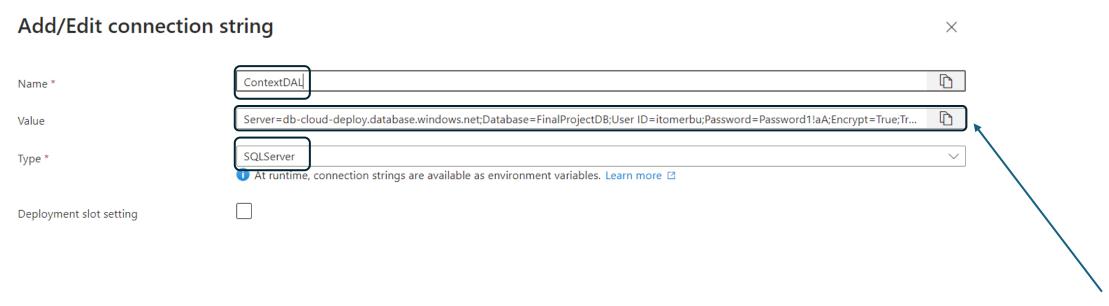


בענן connection string בענן





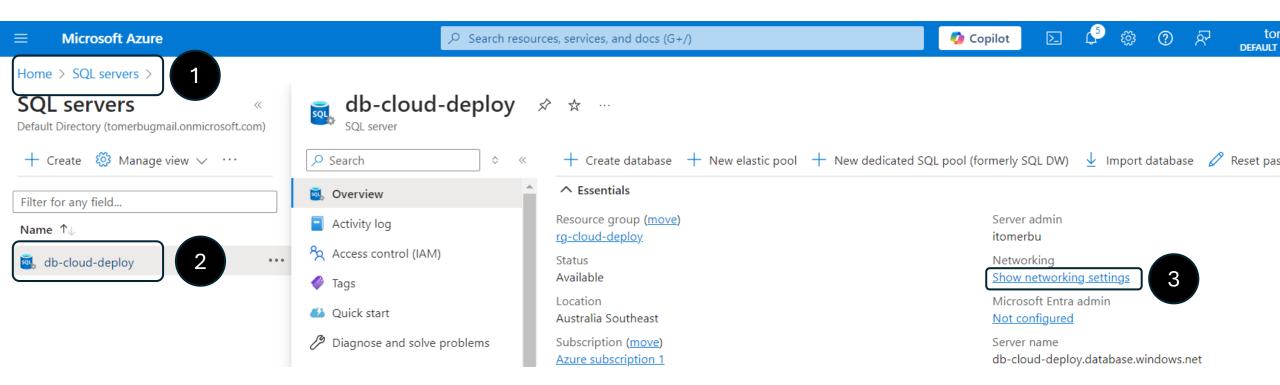
בענן connection string הגדרה של ה



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

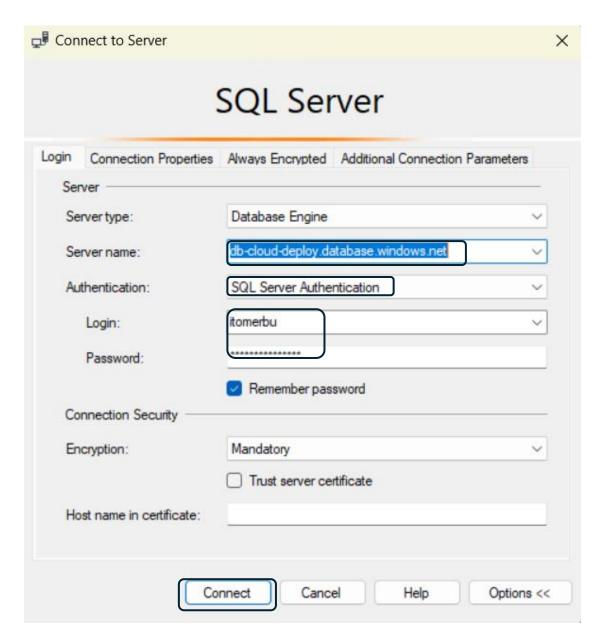
46.117.232.143

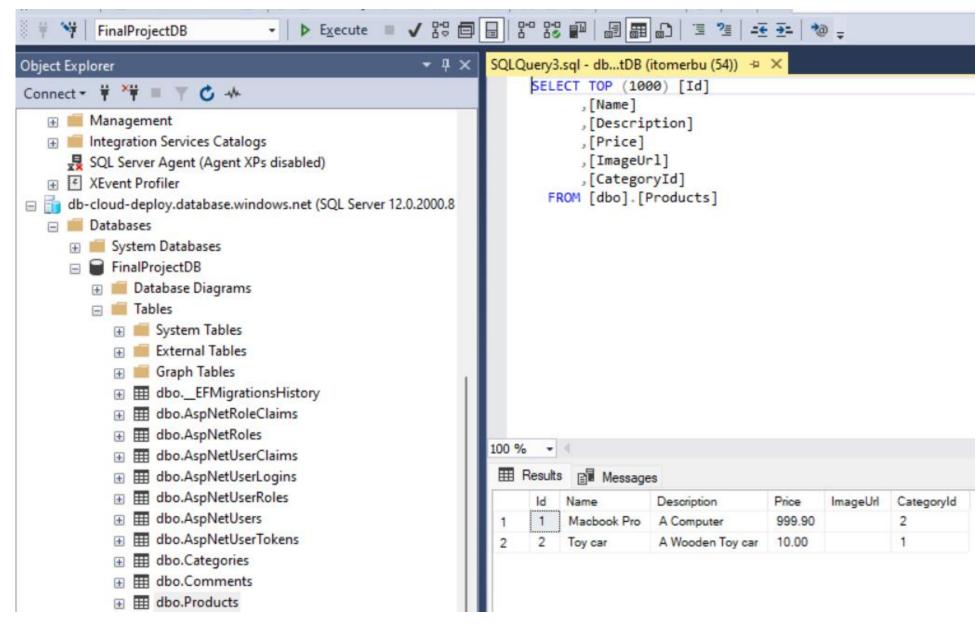


Exceptions

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

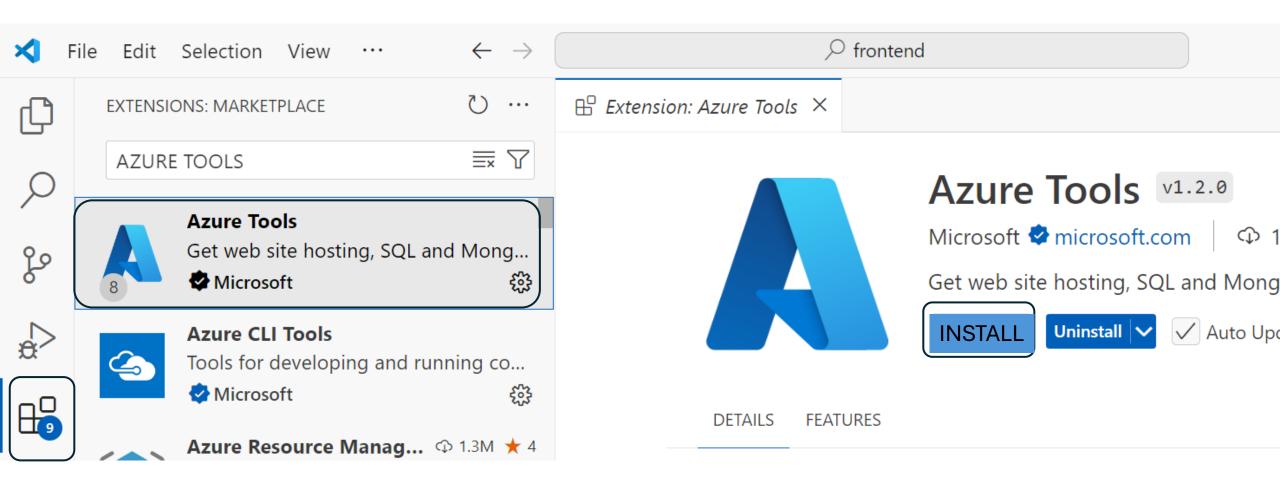
Save Discard





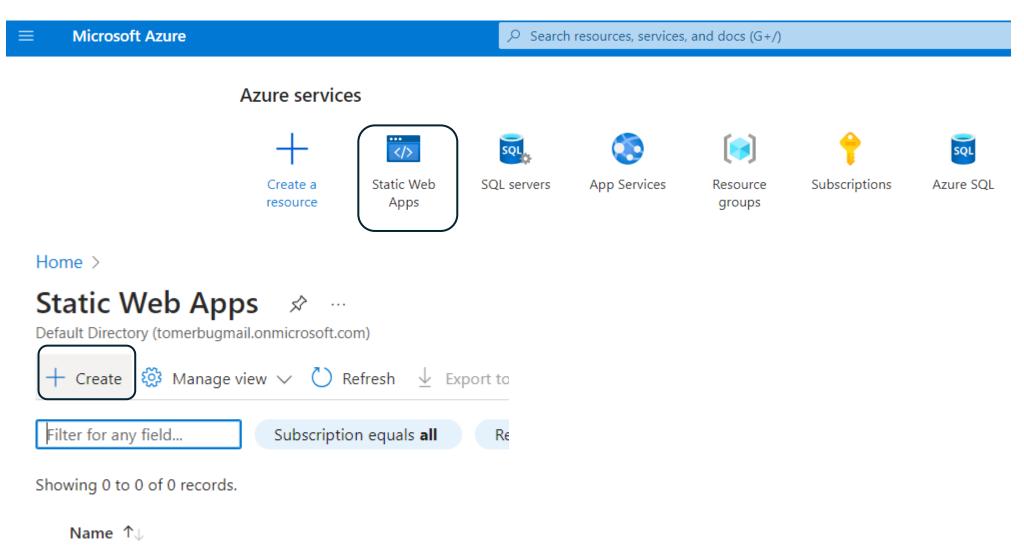
```
## .env.production X
## .env.production

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	✓		
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

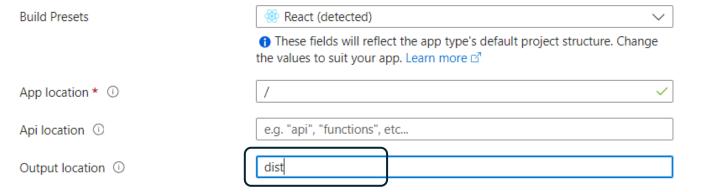
העלאת פרוייקט צד לקוח:

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	~

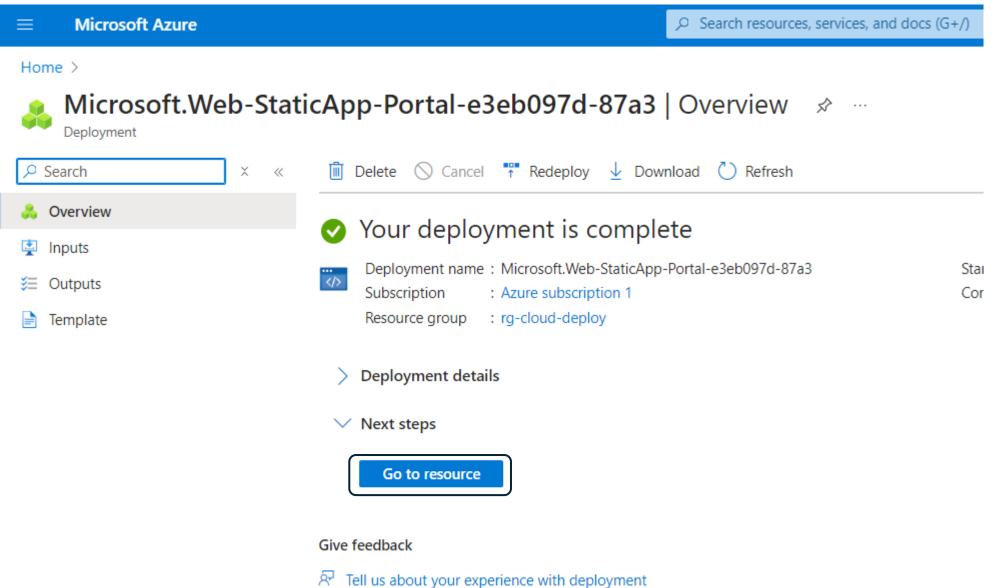
Build Details

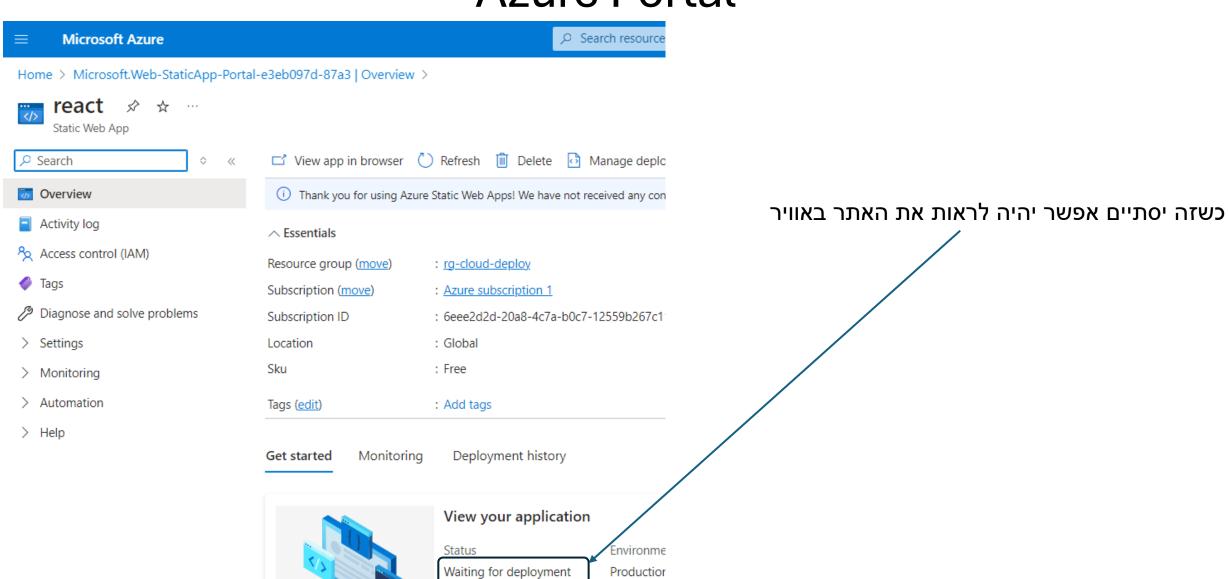
Enter values to create a GitHub Actions workflow file for build and release. You can modify the workflow file later in your GitHub repository.



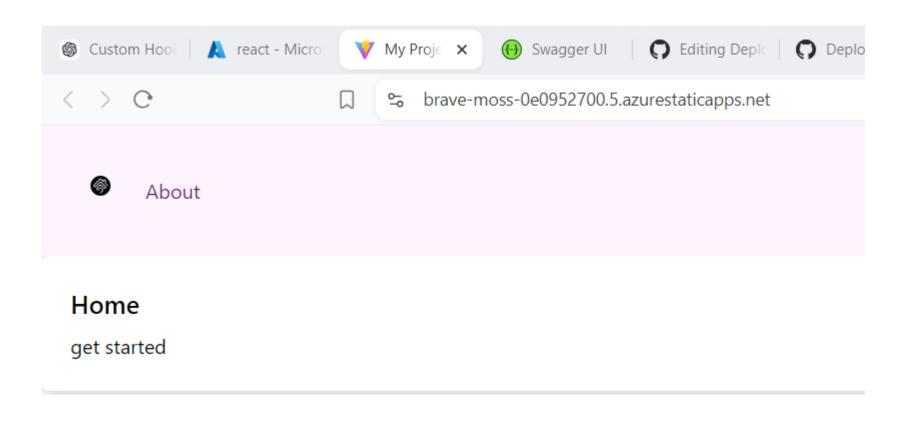
Workflow configuration

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

עדכון הגדרות Cors בצד שרת

```
Program.cs ≠ X
                                            ▼ PinalAPI.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
                                                                                         בלי סלאש בסוף –
                                   policy.WithOrigins([
        73
                                                                                           טעות הקלדה
                                            "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