

STEPS TO DEPLOY IN AZURE

Step 1: Create an Azure App Service

1. Log in to Azure Portal
2. Click **Create a resource > Web App**

Fill in the required fields:

- Name: onlinelibrarySystem
 - Publish: Code
 - Runtime stack: .NET 8 (or your project version)
 - Region: Choose the nearest region
3. Click Next > Monitoring (skip) > Review + Create
 4. Click Create

Step 2: Create Azure SQL Database

1. Go to **Azure Portal > Create a resource > SQL Database**
2. Set:
 - **Database name:** OnlineLibrarySystemDB
 - **Server:** Create new (set admin username/password)
3. Select **Basic pricing tier** (from options available)
4. Click **Review + Create > Create**
➔ After creation, go to the SQL server settings > Firewalls and allow your IP and "Allow Azure services to connect".

Step 3: Get Connection String

1. In the Azure SQL resource > Go to Connection Strings
2. Copy the ASP.NET connection string

Step 4: Update appsettings.json

➔ Replace your local connection string with the Azure one in appsettings.json

Step 5: Publish from Visual Studio

1. Right-click your project > **Publish**
2. Choose **Azure App Service (Windows)** > Select existing resource
3. Click **Publish**

Done! Test the App

- Open your Azure App URL, e.g., <https://onlinelibrarySystem.azurewebsites.net>
- Register a new user, and test book features
- Confirm the data is stored in Azure SQL