

Angular App to Azure Deployment – Practice Lab

You can deploy an **Angular app to Azure** in a few different ways, depending on whether you want to host it on **Azure App Service**, **Azure Static Web Apps**, or even **Azure Storage with CDN**.

Let me walk you through the **most common approach: deploying to Azure App Service**.

✓ Step 1: Build Your Angular App

1. Navigate to your Angular project root.
 2. Run:
 3. `ng build --prod`
 - This will generate a `dist/` folder (e.g., `dist/your-app-name`) containing the static files.
-

✓ Step 2: Create an Azure App Service

1. Log in to the Azure Portal.
 2. Search for **App Services** → Click **Create**.
 3. Fill in:
 - **Subscription and Resource Group**
 - **App Name** (must be unique, like `myangularapp123`)
 - **Publish** → *Code*
 - **Runtime Stack** → *Node* (latest LTS recommended)
 - **Region** → closest to your users
 - **Pricing Plan** → choose *Free (F1)* for testing
 4. Click **Review + Create** → **Create**.
-

✓ Step 3: Configure Angular App for Azure

Azure App Service serves apps from `wwwroot`.

Add a `web.config` file (for Windows hosting) or configure *static file middleware* if using Linux.

Create a file `web.config` inside your `dist/your-app-name`:

```
<configuration>
  <system.webServer>
    <rewrite>
      <rules>
        <rule name="Angular Routes" stopProcessing="true">
          <match url=".*" />
          <conditions logicalGrouping="MatchAll">
            <add input="{REQUEST_FILENAME}" matchType="IsFile"
negate="true" />
            <add input="{REQUEST_FILENAME}" matchType="IsDirectory"
negate="true" />
          </conditions>
          <action type="Rewrite" url="/index.html" />
        </rule>
      </rules>
    </rewrite>
  </system.webServer>
</configuration>
```

This ensures Angular routes (`/about`, `/contact`) work correctly.

✓ Step 4: Deploy App to Azure

You have multiple deployment options:

Option 1: Visual Studio Code

1. Install **Azure App Service** extension in VS Code.
2. Right-click your project → **Deploy to Web App**.
3. Select the Azure subscription and target App Service.

Option 2: Azure CLI

From the project root:

```
az login
az webapp up --name myangularapp123 --resource-group MyResourceGroup --
runtime "NODE|18-lts"
```

Option 3: ZIP Deploy

1. Zip your `dist/your-app-name` folder.
 2. Upload via:
 3. `az webapp deployment source config-zip \`
 4. `--resource-group MyResourceGroup \`
 5. `--name myangularapp123 \`
 6. `--src dist/your-app-name.zip`
-

✓ Step 5: Browse Your App

Once deployment is done, go to:

`https://myangularapp123.azurewebsites.net`

◆ Alternative: Azure Static Web Apps (Recommended for Angular)

- If your Angular app is **pure frontend**, use **Azure Static Web Apps** (cheaper + globally distributed).
- Create a Static Web App in Azure.
- Connect to GitHub for CI/CD.
- It automatically builds & deploys your Angular project.