Deploying Angular Application to IIS (Windows 10/11)

# Prerequisites

Angular Application built with Angular CLI.

IIS installed on Windows 10/11.

IIS URL Rewrite Module installed.

Administrator access to the machine.

# Step 1: Install IIS

Open 'Turn Windows features on or off'.

Check the following:

- Internet Information Services

- Web Management Tools

- World Wide Web Services

Click OK and wait for it to install.

# Step 2: Install IIS URL Rewrite Module

Download from: https://www.iis.net/downloads/microsoft/url-rewrite

Choose the correct version (likely 64-bit).

Install and restart IIS Manager if open.

# Step 3: Build Angular App for Production

Open terminal in your Angular project and run:

ng build --configuration production

If deploying under a virtual directory, add base-href:

ng build --configuration production --base-href /your-app-folder/

# Step 4: Prepare Output Folder

Navigate to: dist/your-app-name

Copy this folder to IIS root: C:\inetpub\wwwroot\your-app-folder

# Step 5: Create or Verify web.config

Place the following web.config inside dist/your-app-name:

# web.config content

<?xml version="1.0" encoding="utf-8"?>  
<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>  
 <staticContent>  
 <mimeMap fileExtension=".json" mimeType="application/json" />  
 <mimeMap fileExtension=".webmanifest" mimeType="application/manifest+json" />  
 </staticContent>  
 <defaultDocument enabled="true">  
 <files>  
 <add value="index.html" />  
 </files>  
 </defaultDocument>  
 </system.webServer>  
</configuration>

# Step 6: Configure Site in IIS

Open IIS Manager (inetmgr)

Right-click Sites > Add Website

Enter: Site name, Physical path, Port

Click OK

# Step 7: Browse Your App

Open browser and go to http://localhost/your-app-folder/

# Optional: Enable Clean Routing

Use PathLocationStrategy in Angular:

RouterModule.forRoot(routes, { useHash: false })

# Step 8: Test

Navigate to a route like /dashboard

Refresh the page and confirm routing works

# Common Troubleshooting

404 or Refresh Not Working: Check web.config and base-href.

Blank Page or JS Errors: Check browser console.

500.19 Error: Validate web.config or reinstall rewrite module.