ASP.NET MVC Application Deployment Procedure

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**✅ Build and Deploy ASP.NET MVC (Framework) App to IIS Server**

🚀 **Purpose:**  
To publish the ASP.NET MVC application and make it accessible via browser through **IIS** (Internet Information Services) on a local or production server.

**🧩 Purpose**

| **Step** | **Purpose** |
| --- | --- |
| Build Project | Ensures latest compiled output |
| Publish Project | Prepares deployable files for IIS |
| Configure IIS | Hosts and runs your MVC app as a website |
| Add App Pool | Manages worker process for the site |
| Configure Bindings | Assigns URL or port for browser access |

**⚙️ Step-by-Step Deployment to IIS**

**1️⃣ Build the Application**

✅ In **Visual Studio**:

* Click Build > Build Solution (Ctrl + Shift + B)
* Ensure the output builds successfully

**2️⃣ Publish Your Application**

✅ In **Visual Studio**:

1. Right-click your project > **Publish**
2. Select **Folder** > Choose path: C:\Publish\MVCraze
3. Click **Publish**

It creates a folder with all necessary files (DLLs, Views, web.config, etc.)

**3️⃣ Enable IIS on Your Machine**

Go to:

Control Panel → Programs → Turn Windows features on/off

✅ Enable:

* **Internet Information Services**
* Under Web Management Tools: ✔️ IIS Management Console
* Under World Wide Web Services → ✔️ Application Development Features:
  + .NET Extensibility
  + ASP.NET
  + ISAPI Extensions
  + ISAPI Filters

Click OK and wait for installation.

**4️⃣ Create Website in IIS**

1. Open IIS Manager (Win + R → inetmgr)
2. Right-click Sites → Add Website
3. Fill details:

| **Field** | **Value** |
| --- | --- |
| **Site Name** | MVCraze |
| **Physical Path** | C:\Publish\MVCraze |
| **Port** | 8085 (or any free port) |

1. Click **OK**

**5️⃣ Set Application Pool to .NET v4.0**

* In IIS > Application Pools
* Find the app pool created with your site
* Right-click → Basic Settings → .NET CLR Version → **v4.0**

If it's a 32-bit app:

* Advanced Settings → Enable 32-bit applications → True

**6️⃣ Browse the Site**

✅ Access the site in your browser:

http://localhost:8085/

**✅ Optional: Fix Common Issues**

| **Issue** | **Solution** |
| --- | --- |
| 404 error for MVC routes | Make sure routing and RouteConfig.cs is correct |
| ASP.NET not running in IIS | Run aspnet\_regiis -i from Visual Studio Developer Command Prompt |
| Permissions issue | Grant IIS\_IUSRS read/execute permissions on the publish folder |

**🧠 Summary**

| **Step** | **Description** |
| --- | --- |
| Build | Prepares latest binaries |
| Publish | Outputs deployable package |
| Configure IIS | Hosts app as website in Windows |
| Set App Pool | Matches framework version |
| Access | Through browser at configured URL |