Session 15

Deploying ASP.NET MVC and ASP .NET Core Applications

Session Overview

- Describe IIS configuration

- Explain the process to deploy ASP .NET Core and ASP.NET MVC

Configuring ASP.NET Core App to IIS

IIS, a Web server that operates on the Windows OS ASP.NET framework, is generally used to host ASP.NET Core applications.

Every ASP.NET Core project is internally a console application that has a Program.cs file.

To configure and create Web hosts, ASP.NET Core uses WebHostBuilder.

UseKestrel() and UseIISIntegration() are commonly used in the WebHostBuilder setup code.

Deploying ASP.NET Core to IIS(1-3)

Open **Control Panel** and then, click **Program.**

Click the **Turn Windows Features on or off** and select **Internet Information Services** and all its hierarchy options. Click **OK.**

To start the **Internet Information Services (IIS) Manager** App.

In the **Internet Information Services (IIS) Manager** window, to provide information about the Website, click Sites.

Provide information about the Website in the **Add Website** window. Provide the Site Name, Application Pool, and Path of the Website. Also, provide the Host Name.

Deploying ASP.NET Core to IIS(2-3)

Modify the *host*s file for the system. Open **Notepad** and click **Run as administrator** to open it in the Administrator mode.

Open the file through Administrator mode of Not.

Finally, to map the localhost to **DeployMVCCoreApp.com**, in the *hosts* file, add the line **127.0.0.1 DeployMVCCoreApp.com.**

Publish the application by opening the application in Visual Studio IDE. Click **Publish.**

Deploying ASP.NET Core to IIS(3-3)

Application is deployed in IIS through creation of the folder **DeployMVCCoreAPP** that is in the **wwwroot** folder. Select **Folder** and then, provide the path in **Folder location.**

Finally, click **Publish** to publish the entire Web application at the IIS location.

Next, open the **wwwroot** location to view the application files that are created.

To open the application in browser via IIS, select the application and right-click to select **Manage Website → Browse**.

Next, repeat the steps for Browse after installation of Windows Server Hosting, **Welcome** screen of the application.

Summary

- ASP.NET Core hosting requirements are different from ASP.NET as its configurations are different.
- ASP.NET Core project is internally a console application that has a Program.cs file.
- ASP.NET Core uses WebHostBuilder to configure and create WebHosts.
- ASP.NET Core projects create a Web.config file to deploy an application to IIS and register the AspNetCoreModule as an HTTP handler.
- WebHostBuilder must be configured for Kestrel and IIS.
- To select the target for publishing or deploying the application, there are various options.
- Azure allows publishing the applications to Microsoft Cloud.
- Applications can be published directly to IIS using Web Deploy.