

ASP.NET web application deployment on IIS

Deploy your app to a folder :

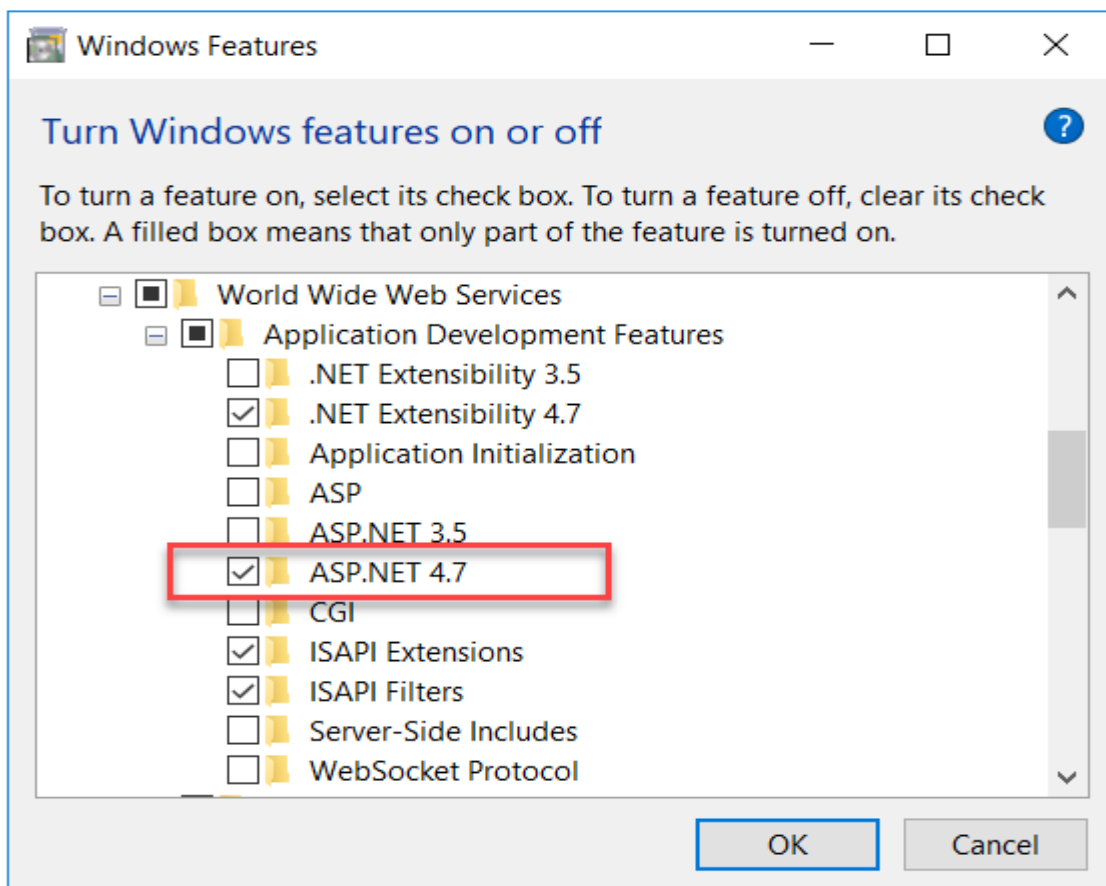
By deploying an application, service, or component, you distribute it for installation on other computers, devices, servers, or in the cloud. You choose the appropriate method in Visual Studio for the type of deployment that you need.

IIS Configuration

You should have IIS installed in your machine or the machine you want to deploy your apps (see details [here](#)), and

1, Make sure that ASP.NET 4.8 is installed,

- Open Control Panel > Programs > Programs and Features > **Turn Windows features on or off**.
- Expand Internet Information Services, World Wide Web Services, and Application Development Features.
- Confirm that **ASP.NET 4.8** is selected.



2, Install the .NET Core Hosting Bundle from [here](#)

The first one guarantees ASP.NET (.NET Framework) can run on IIS, the second one guarantees ASP.NET Core can run on IIS. Otherwise, you might get the following error message for any of them:

HTTP Error 500.19 - Internal Server Error

The requested page cannot be accessed because the related configuration data for the page is invalid.

Detailed Error Information:

Module	IIS Web Core	Requested URL	http://localhost:80/WindowsAuth
Notification	BeginRequest	Physical Path	C:\Users\gghan\source
Handler	Not yet determined	Logon Method	Not yet determined
Error Code	0x80070005	Logon User	Not yet determined
Config Error	Cannot read configuration file due to insufficient permissions		
Config File	\\?\C:\Users\gghan\source\web.config		

Config Source:

-1:

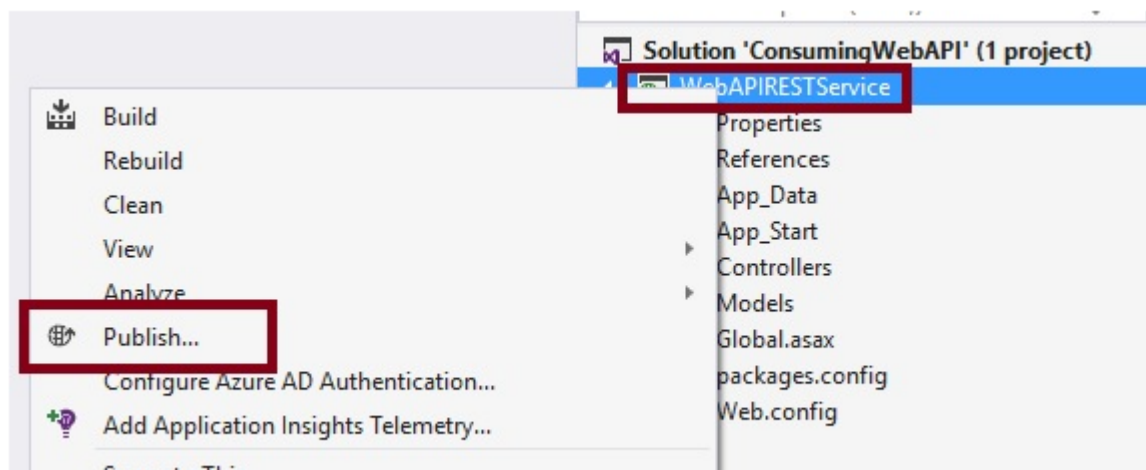
0:

More Information:

This error occurs when there is a problem reading the configuration file for the Web server or Web application. In some cases, the event logs may contain more information about what caused this error.

[View more information >](#)

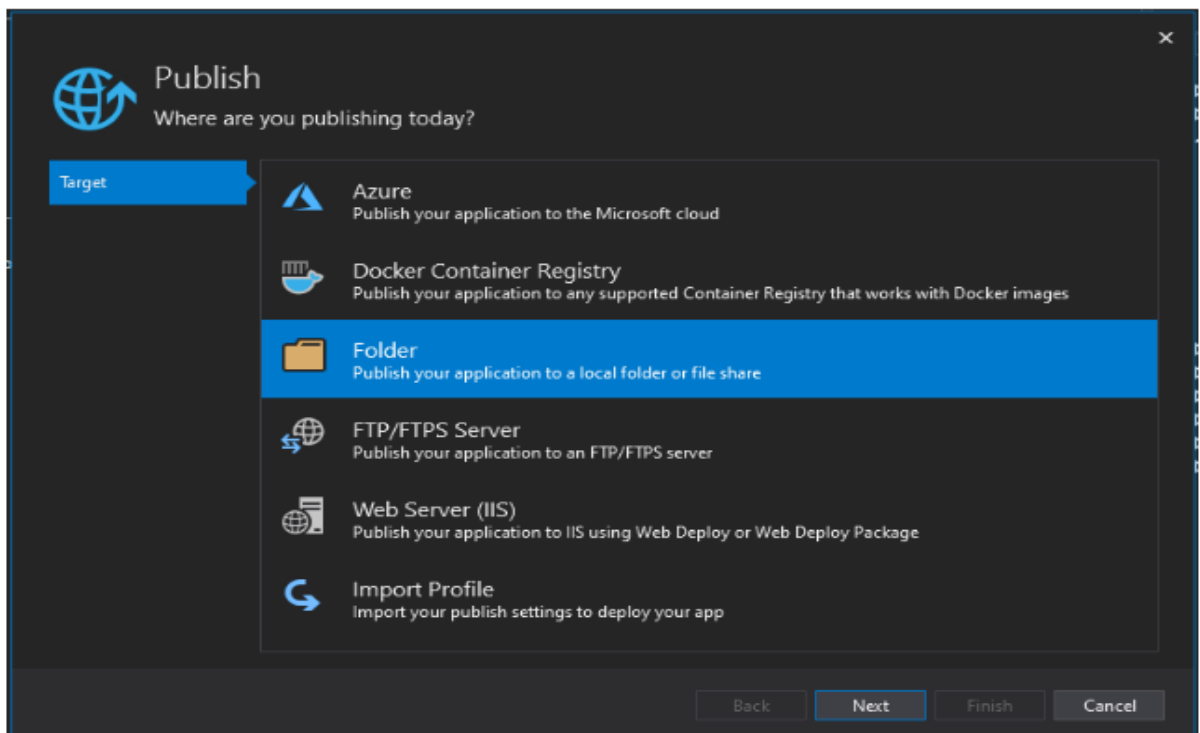
Method one: Deployment to Folder --- for production



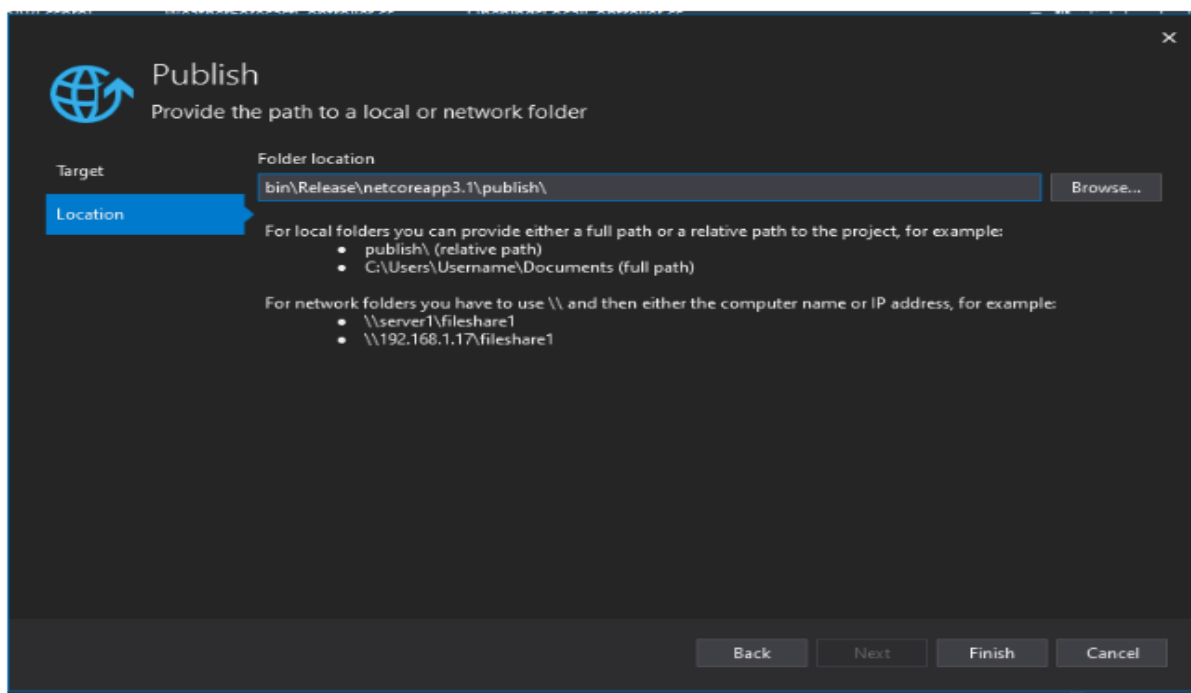
We use the current version of Visual Studio 2019 16.9.4,

- Right click the project you want to deploy, and choose publish

- Choose Folder => Next



- The folder will include the deployed files, Click Finish



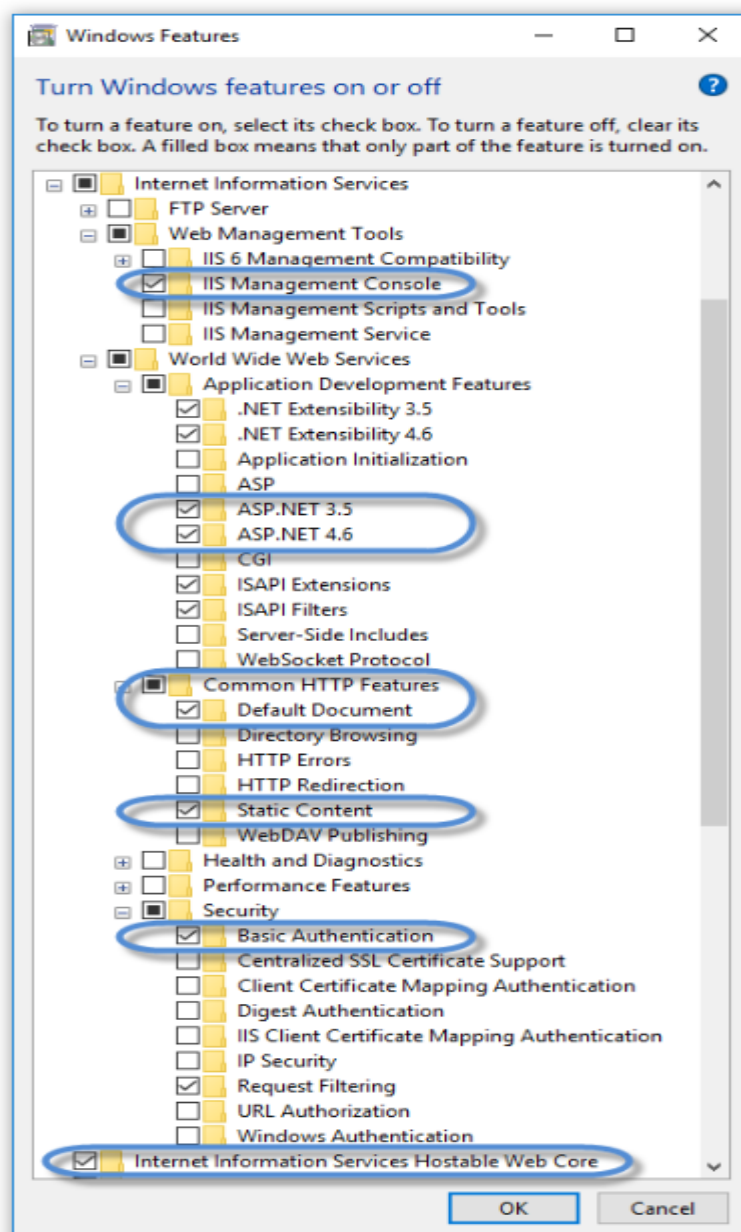
Then move the publish folder to any location you need to deploy to, and set up IIS against it. This method is most likely used for production deployment.

Enable to setup IIS

A. Enable IIS

Under **Internet Information Services**, turn on the following:

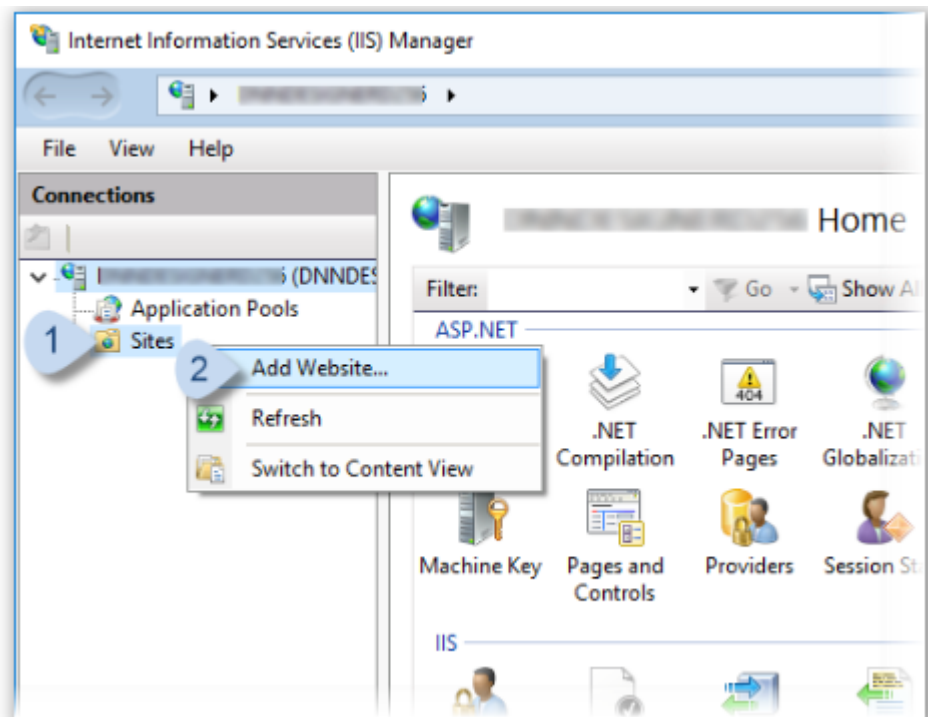
- **Web Management Tools:** IIS Management Console
- **World Wide Web Services**
 - **Application Development Features:** ASP.NET 3.5 and 4.6
 - **Common HTTP Features:** Default Document and Static Content
 - (Optional) **Security:** Basic Authentication
- **Internet Information Services Hostable Web Core**



You can create a new website or set up an existing one for use with DNN. Choose one of the next two steps.

To create a new website and point it to the DNN installation folder:

- Go to **Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**.
- In the **Connections** panel, expand your host tree, right-click on **Sites**, and choose **Add Website**



Enter the new website's name and choose the location.

The screenshot shows the 'Add Website' dialog box. The 'Site name' field is labeled with a blue circle containing the number '1'. The 'Physical path' field is labeled with a blue circle containing the number '2'. The 'Binding' section shows 'Type' as 'http', 'IP address' as 'All Unassigned', and 'Port' as '80'. The 'Host name' field has an example: 'www.contoso.com or marketing.contoso.com'. The 'Start Website immediately' checkbox is checked.

- Enter the Host name

Developers and Designers: If setting up a local development environment, you can use www.dnndev.me (or any subdomain). DNNDEV.ME is a registered domain which points to the loopback address of 127.0.0.1, so it will always resolve locally.

Administrators: If setting up a live website, use your website's domain.

Add Website

Site name: MyDNNSite Application pool: MyDNNSite Select...

Content Directory

Physical path: C:\DNN8 ...

Pass-through authentication

Connect as... Test Settings...

Binding

Type: http IP address: All Unassigned Port: 80

Host name: www.dnndev.me
Example: www.contoso.com or marketing.contoso.com

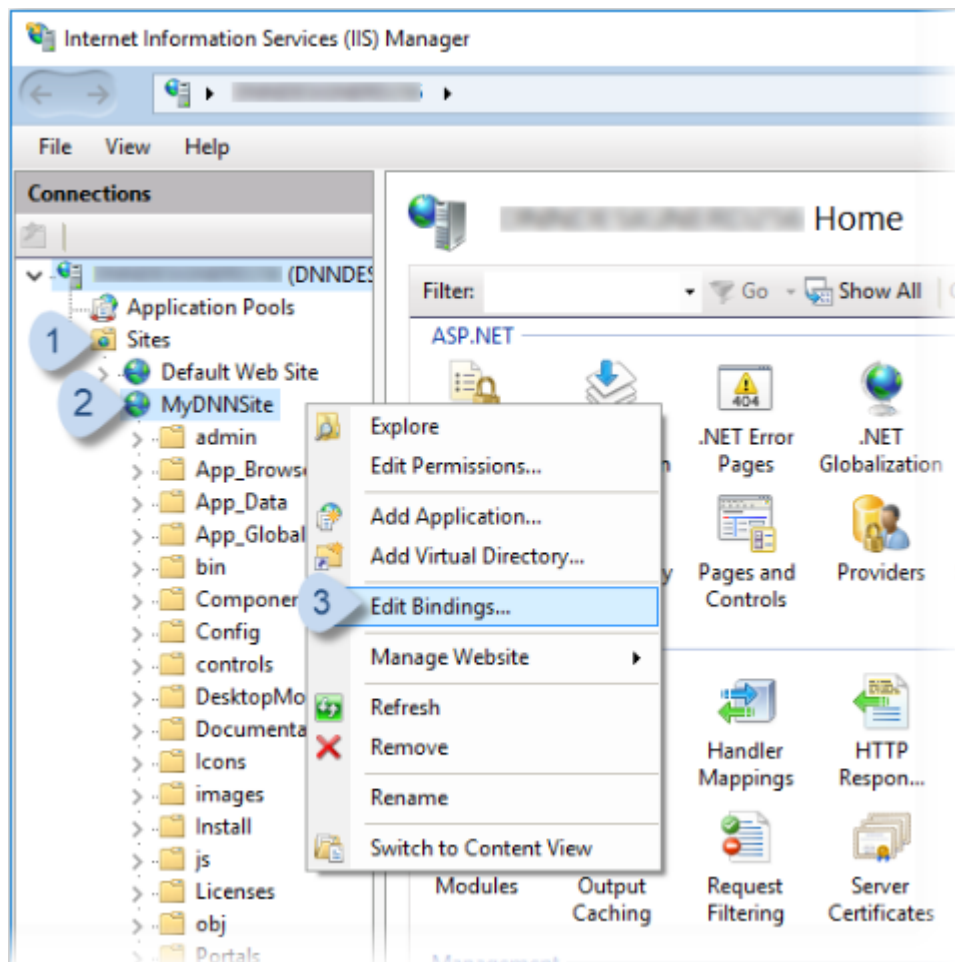
Developers and Designers:
Enter
www.dnndev.me for
your local
installation.

☒ Start Website immediately

OK Cancel

To use an existing IIS website:

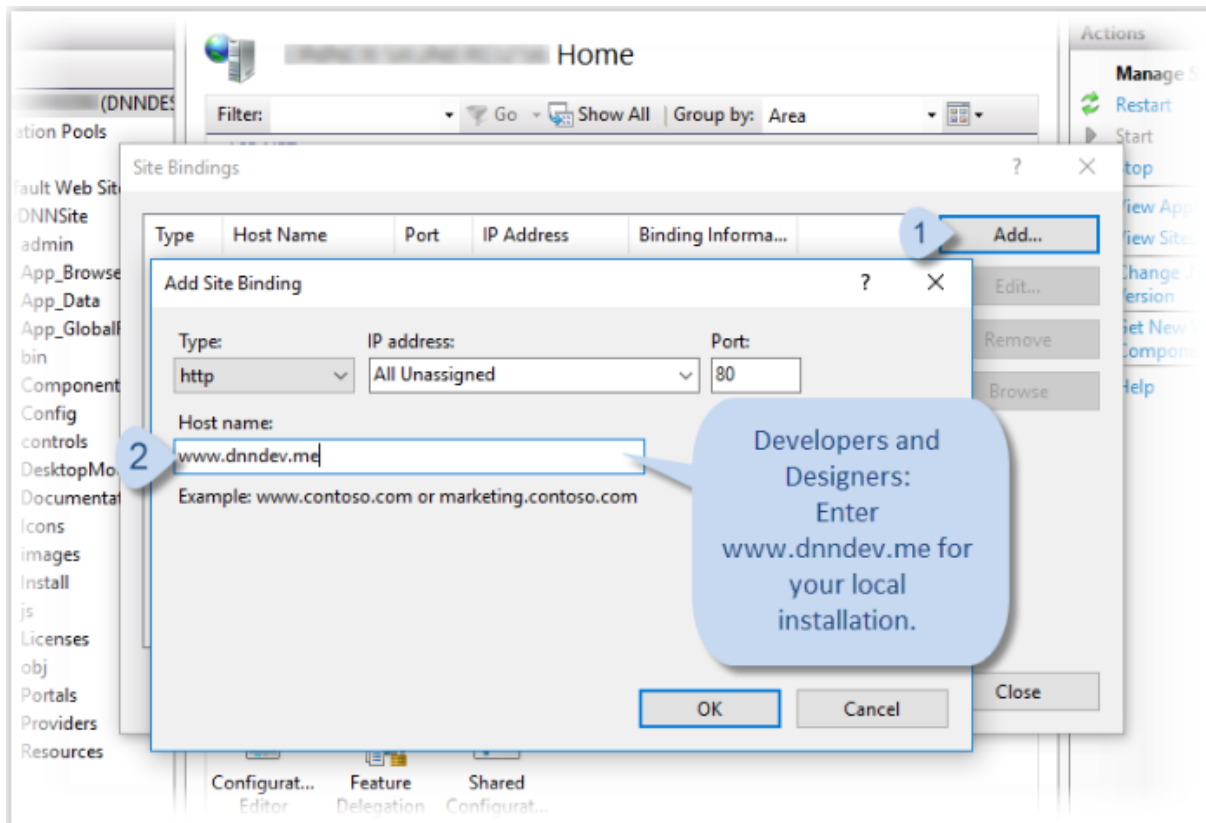
In the **Connections** panel, right-click on the name of the existing website, and Choose Edit Bindings...



In **Site Bindings**, click/tap **Add....** In **Add Site Binding**, enter the **Host name**.

Developers and Designers: If setting up a local development environment, you can use www.dnndev.me (or any subdomain). DNNDEV.ME is a registered domain which points to the loopback address of 127.0.0.1, so it will always resolve locally.

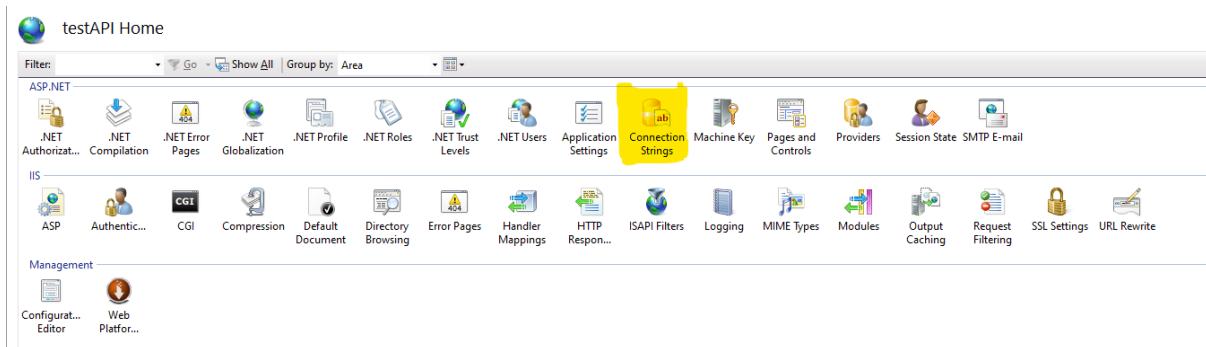
Administrators: If setting up a live website, use your website's domain.



- If you do not use **NETWORK SERVICE** as the user account to run your website, verify that **IIS AppPool\AppDataName** has **Full** or **Modify** permissions for the DNN installation folder. The account **IIS AppPool\AppDataName** is automatically created by IIS.

If you have updated the password from SSMS then follow these steps to make sure that your connection string is correct .

- To SetUp a connection string:



- click on the site , then you'll see the above options on the window.
- click on the connection string to set it up.
- Click on edit the connection string from the right hand side.

Edit Connection String

Name: LocalSqlServer

☒ SQL Server

Server: localhost

Database: His_App

Credentials

☐ Use Windows Integrated Security

☒ Specify credentials

sa Set...

☐ Custom

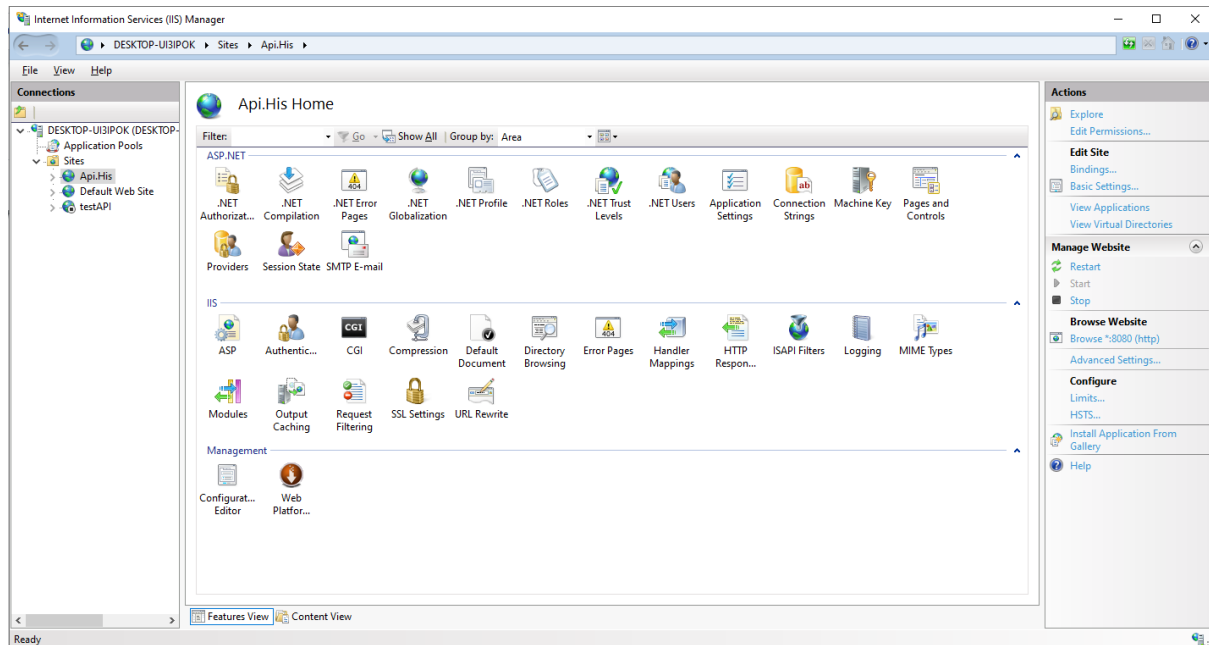
Server=localhost;Database=His_App;User ID=sa;Password=●●●●●●●●

OK Cancel

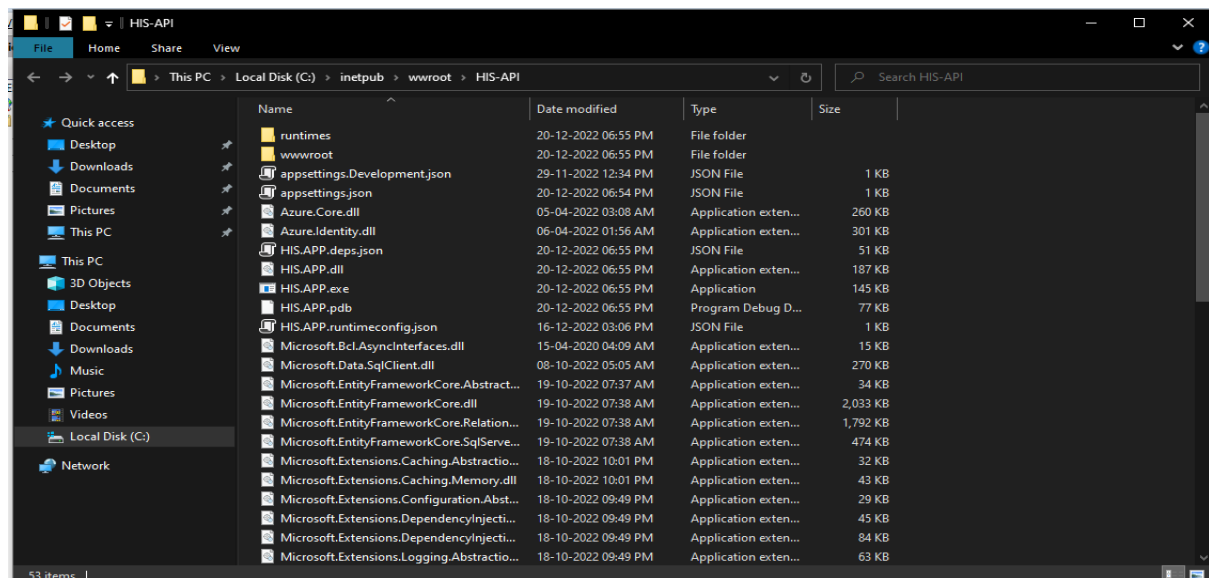
- Setup the SQL server with server name and Database name and specify credentials of the sql user .
- connection string will appear at the bottom , make sure that your application connection string and this one is the same.

Follow the steps below if you have a publish folder with you.

1) Go to IIS and choose the site you wish to publish. The website must be stopped first from the right side, in the Manage website area.



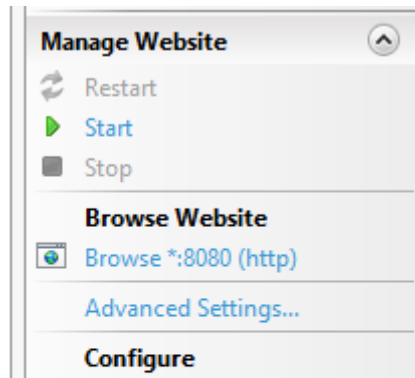
2) Next, select the Explore button located under "Actions"; a file manager will open.



3) Select all files, copy and paste them into an additional backup folder.

4) Copy the new Publish folder files over here, then paste it.

5) start the application by launching IIS



6) Next, click the browse Button . A new browser window will open with the programme.

For Testing of the Lab results , this is the excel sheet link for reference :

<https://docs.google.com/spreadsheets/d/1ZDIveLFrZhtZfhzUAqYTXZOoPBjPxxgNo/edit?usp=sharing&ouid=102067323008809259732&rtpof=true&sd=true>

The relevant value will be updated in SIP Plus if you use the result codes and result values in the LabResult json file.