Web Project Publish Assignment Shagun Gupta

Ques 1: What is the role of IIS and how IIS Server works? Please describe properly about working with proper steps and explain Architecture.

Ans

IIS stands for Internet Information Services. Formerly known as Internet Information Server, IIS is a web server that runs on the Microsoft .NET platform on the Windows OS. IIS is normally installed on a Window Server.

For users to access a website, it is required that the website is hosted on some sort of web server.

IIS is a Web Server or a Windows component that accepts requests from Client browser and responds with the requested page(s). It is an extensible web server that supports HTTP, HTTPS, FTP, FTPS, SMTP, & NNTP protocols.

Steps:

The first part is the request sent by the user.

Once the request comes to the IIS server, it is processed. The IIS Server will perform all the required operations as per request.

Finally, the IIS Server sends the output back to the user. The output will generally be HTML content sent back to the user. This HTML content will be displayed in the web browser.

<u>Architecture</u>

- 1. When a client browser initiates an HTTP request for a resource on the Web server, HTTP.sys intercepts the request.
- 2. HTTP.sys contacts WAS to obtain information from the configuration store.
- 3. WAS requests configuration information from the configuration store, applicationHost.config.

- 4. The WWW Service receives configuration information, such as application pool and site configuration.
- 5. The WWW Service uses the configuration information to configure HTTP.sys.
- 6. WAS starts a worker process for the application pool to which the request was made.
- 7. The worker process processes the request and returns a response to HTTP.sys.
- 8. The client receives a response.

Ques 2: What is Application pool in IIS and how to create and assign Application pool to a website. Please explain in detail with an example.

Ans:

Application pools are used to separate set of IIS worker processes that share the same configuration. Application pools enable us to isolate our web application for better security, reliability, and availability

Types of Application Pools

There are two predefined Application Pools is IIS:

- DefaultAppPool (Integrated)
- ClassicAppPool

Steps to create Application Pool:

Step 1: Right Click on Application Pool and give the name of your pool. Here, I have given "pool" and select Framework and click on OK:

Step 2: If you are writing something on the server you need to change the Pool Identity to Local System. Right click on the Pool Identity setting.

Assign Application Pool to website:

Step 1: Right Click on "TestWeb" Application and Select "Advanced Settings": Step 2: Finally assign your created Application Pool "pool" to "TestWeb" Application

Ques 3: What are the different ways of deploying an Asp .net application on IIS. Describe briefly.

Ans: Steps are:

- 1) Publish to a File Folder
- 2) Copy Files to Preferred IIS Location
- 3) Create Application in IIS
- 4) Load Your App

Process:

- 1) Right Click project in Solution explorer and select "Publish"
- 2) Profile: Create a new profile using dropdown. Enter the name of the profile by selecting "<New>" from the dropdown.
- 3) Connection: Select "Publish method" as "Web Deploy" and "Service URL" as "localhost" and "Site/Application" as "Default Web Site/test1"
- 4) Settings: Configuration can be "Debug" or "Release".
- 5) Publish: Finally click on the "Publish" button at the bottom of the popup. It will start publishing your site to IIS server.
- 6) Now open your IIS Manager and check Sites=> Default web site => test1 will get listed. Now you can select the Application and from the right pane click on browse, your site will launch on default browser.

Ques 4: What is a virtual directory and what is its role? What is The Execution Permission For Virtual Directory? Deploy website with Virtual Directory.

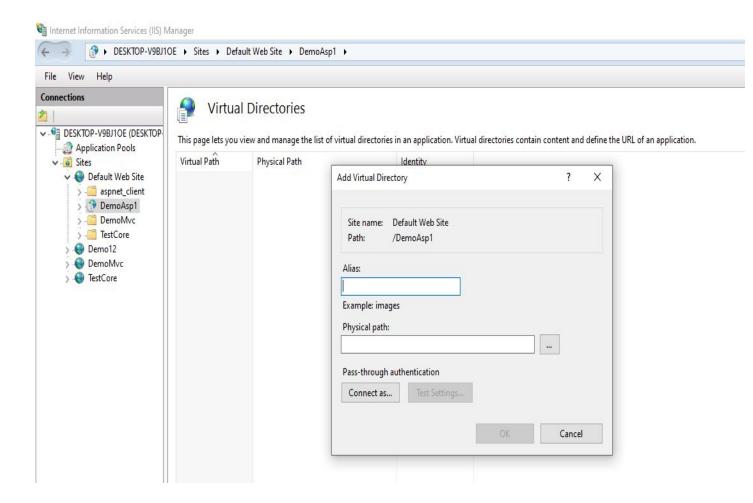
Ans:

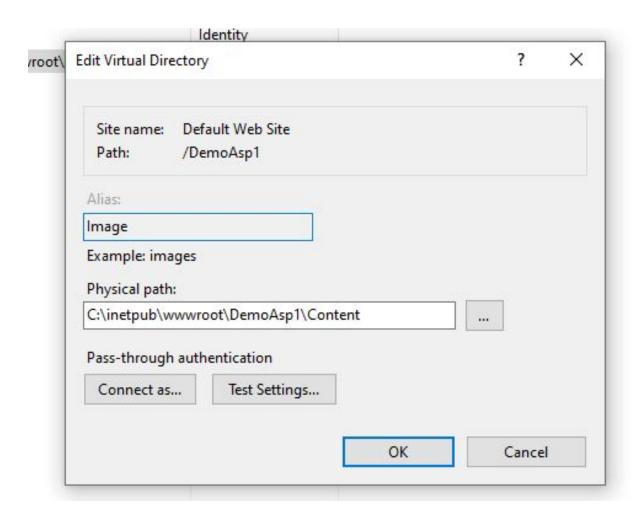
A virtual directory is a directory name that you specify in IIS and map to physical directory on a local server's hard drive or a directory on another server (remote server).

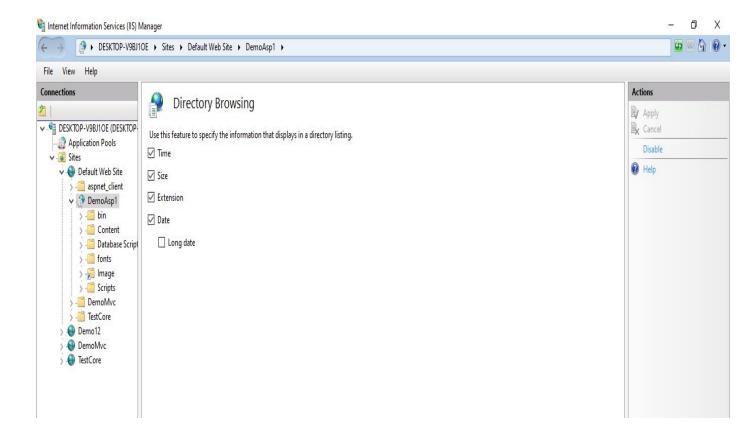
The virtual directory name becomes part of the application's URL. It is a friendly name, or alias because an alias is usually shorter than the real path of the physical directory and it is more convenient for users to type.

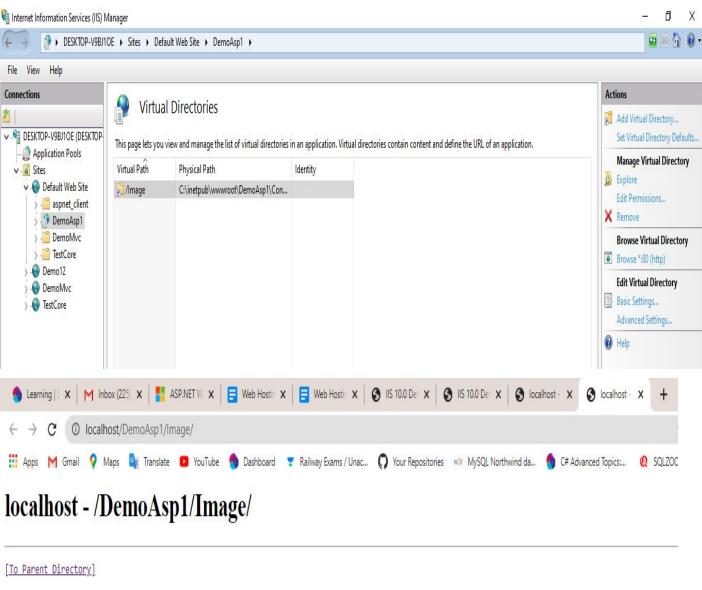
Three permissions are:

- 1) None
- 2) Scripts only
- 3) Scripts and executable







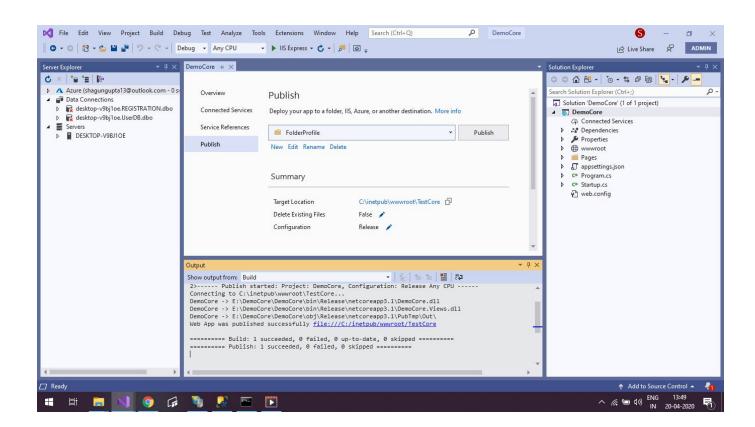


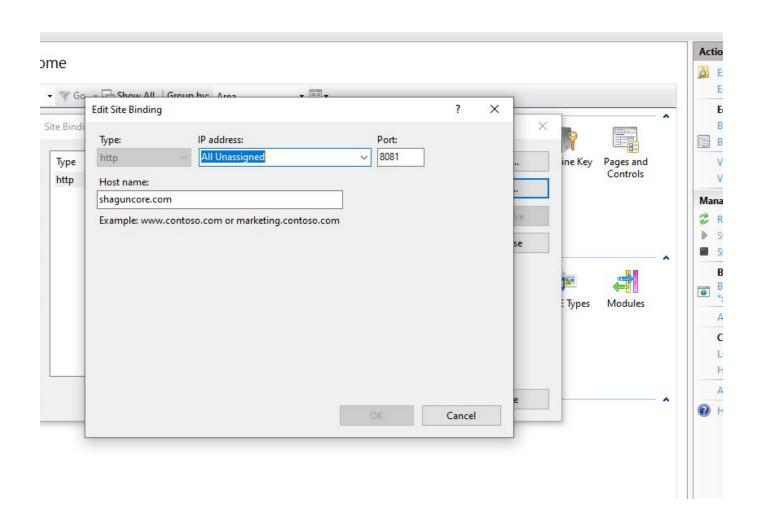
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Ques 5: Create a asp .net core web application and deploy on the IIS Server by using hostName as of your name. Explain all the steps in the document.

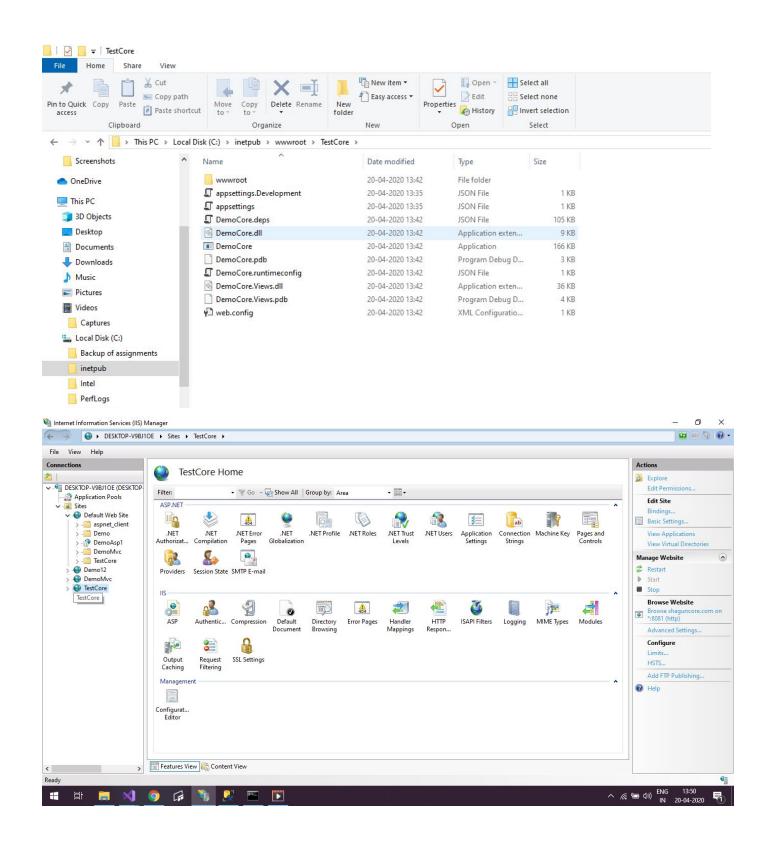
Steps:

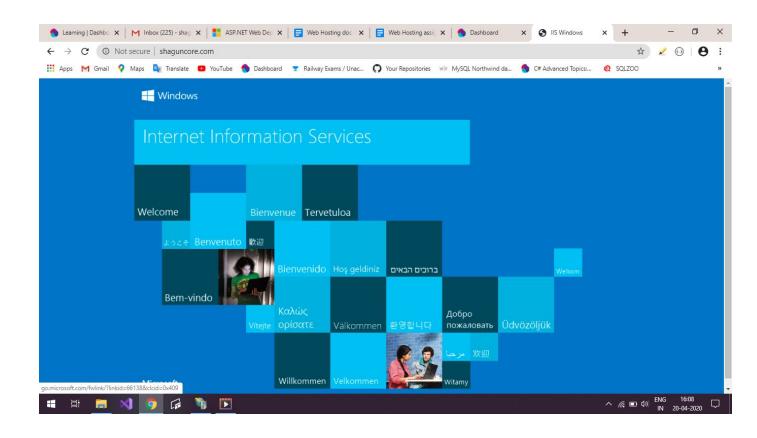
- 1) Create a new asp.net core application.
- 2) Create a folder inside C:->inetpub->wwwroot->TestCore.
- 3) Right Click on the solution explorer and select publish and browse the wwwroot location to publish the website inside the folder.
- 4) After successfully publishing the core application check the folder as it contains all the folders or not.
- 5) After that go to the IIS and create the website and select the application pool and change the port number such that no ambiguity persists.
- 6) Assign the host name as you want and save it.
- 7) Open the host.txt file in administrator mode and edit the file with the specific host name.
- 8) Now it is successfully configured. Browse the application.





```
hosts - Notepad
File Edit Format View Help
# Copyright (c) 1993-2009 Microsoft Corp.
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
# For example:
#
      102.54.94.97
                     rhino.acme.com
                                               # source server
       38.25.63.10
                    x.acme.com
                                               # x client host
# localhost name resolution is handled within DNS itself.
       127.0.0.1
                      localhost
       ::1
                       localhost
127.0.0.1 shaguncoreapp1.com
127.0.0.1 shaguncore.com
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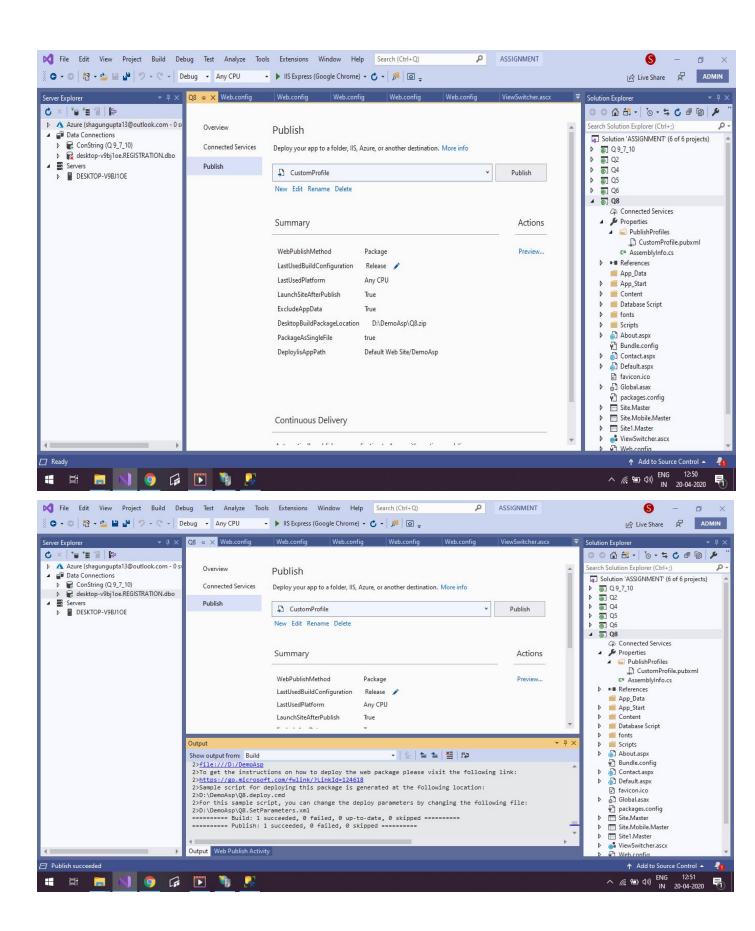
Ques 6: Deploy website using Web Deploy package OR Web Deploy with database. Explain the steps with explanations.

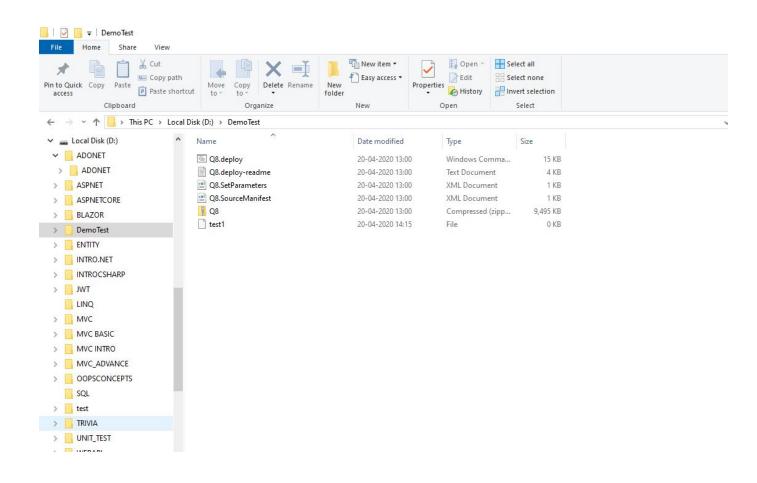
Ans:

Steps:

- 1) Create a asp.net application and add a database.
- 2) Create a folder inside D: drive .
- 3) Select the project and right click on it and select the publish. After that browse the location of D: drive where you want to publish that site.
- 4) Select the web deploy package and add the connection string of the database and save it.

- 5) Mention the location of the website where you want to access the website such as Default Web Site/DemoAsp.
- 6) After publishing the project the zip file is created inside the folder and there is a file of name Q8.deploy.readme open that file.
- 7) Now open the cmd in the administrative mode and cd to that folder where you published that file.
- 8) Now in terminal enter the command cd Q8.deploy /T and Q8.deploy /Y
- 9) After that you will see that website is created inside the default web site. You can browse it.





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Info: Adding file (Default Web Site/DemoAspl\Scripts\WebForms\MSAjax\MicrosoftAjaxWebServices.js).
Info: Adding file (Default Web Site/DemoAspl\Scripts\WebForms\SmartNav.js).
Info: Adding file (Default Web Site/DemoAspl\Scripts\WebForms\TreeView.js).
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                     :\DemoTest>08.deplov /Y
                 ::Uemolest708.dep10y /Y
cetParameters from:
D:\DemoTest\08.SetParameters.xml"
fou can change IIs Application Name, Physical path, connectionString
or other deploy parameters in the above file.
                   Start executing msdeploy.exe
         "C:\Program Files\IIS\Microsoft Web Deploy V3\msdeploy.exe" -source:package='D:\DemoTest\Q8.zip' -dest:auto,includeAcls="False" -verb:sync -disableLink:AppPoolfxtensi
on -disableLink:ContentExtension -disableLink:CertificateExtension -skip:objectname='dirPath',absolutepath='obj\\Release\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Package\\Pa
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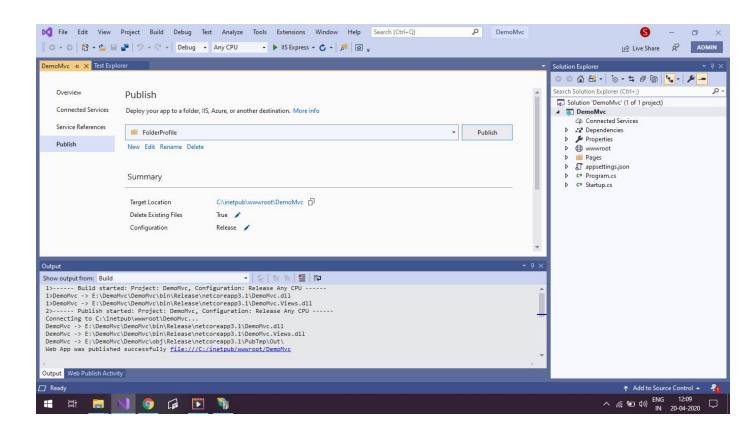


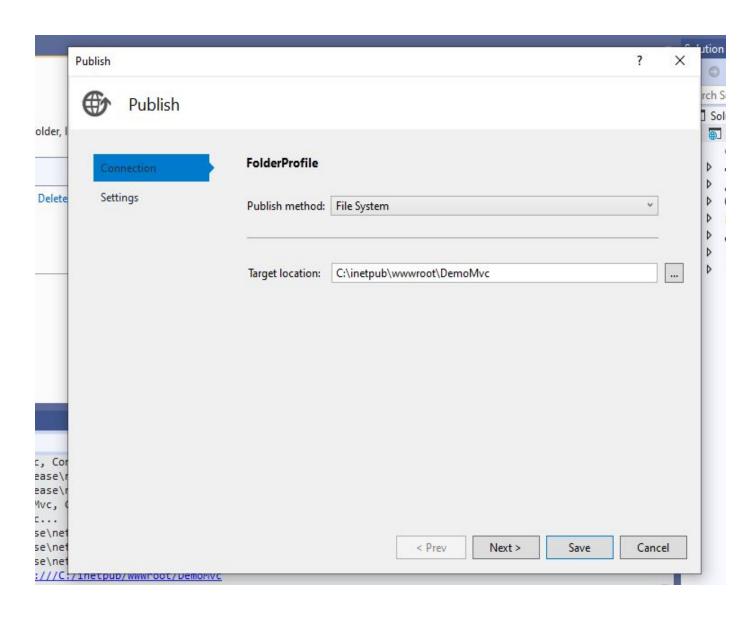
Ques η : Deploy website using File system OR folder with SSL certificate. Explain all the steps in document

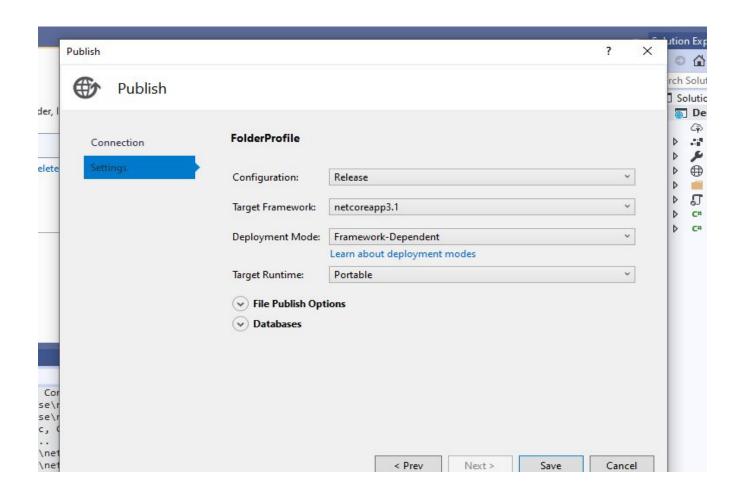
Ans:

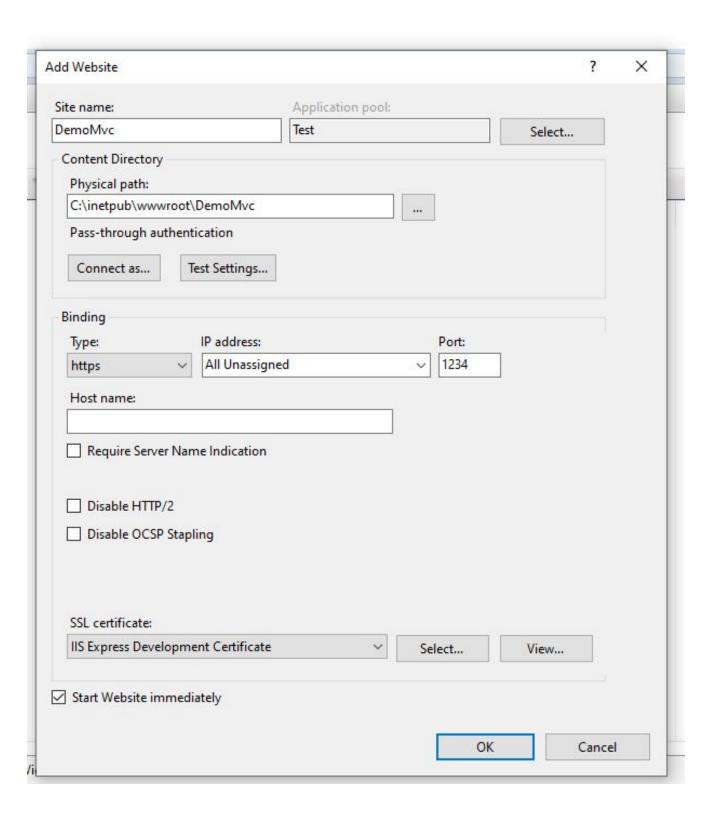
Steps:

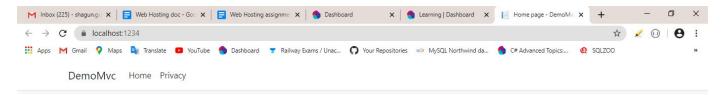
- Create a Mvc application and create a folder inside inetpub->wwwroot->DemoMvc
- 2) Right click the project and publish the project and browse the wwwroot location where you have created the folder.
- 3) Select the publish method as File System and select the configuration as Release mode.
- 4) Now create the website inside the Site add the application pool and select the physical path as the location of your folder and save it.
- 5) Now you can successfully browse your website.











Welcome

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