# PROJECT HANDOVER Document

**Document location**

| Location |
| --- |
| NIT, Hyderabad, India |

**Author**

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**Revision history**

| Version | Issue date | Author/editor | Description/Summary of changes |
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| 1.0.0# | 11-07-2023 | Mr.Venkat Tilla | Software Engineer | 11-07-2023 |
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**Approvals**

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| 1.0.0# | 11-07-2023 | Mr. Samba G | HOD/IT Director/Project Head |  |
| 1.0.1# | ------ | ------ |  |  |

**Related documents**

| Document | Location |
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| COPT Deployment On IIS | NIT, Hyderabad, India |

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| Project Name: | COPT IIS Deployment |
| Handed To: | Venkat Tilla |
| Taken over by: | Md Dilshad Ali Ansari |
|  | |
| IIS Deployment | |
| Subject matter of IIS Deployment: | COPT is a web based application so we need to deploy before need a server machine with IIS server .And COPT is a client server architecture. |
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| **prerequisite: Requirement divide into 2 part**   1. **Server level configuration** 2. **Application Deployment Level**   Details **:** [**Know Details**](#Code) | |
| |  | | --- | | All Details | | 1. Server level configuration : In this level before deploying the web application we confirm IIS should be installed on server   Step 1 Hardware Details of Server   |  |  | | --- | --- | | Item | Specification | | No. of CPU’s | I5 Dual Core or above | | RAM | 8 GB | | Hard Disk | C: 100GB / D: 200GB | | NIC | - | | Cluster | - |   Step 2 Software Details of Server   |  |  |  | | --- | --- | --- | | Item | Software | Version | | Operating System | Windows 7 or above |  | | Antimalware/Firewall | OS integrated |  | | Framework Platform | .Net Framework 4.5 |  | | IDE | Visual Studio 2015 Professional | Update 4 | | Another IDE | Angular 4.0 |  | | RDBMS | Oracle 12c |  | | Document Based DB | MongoDB 4.4 |  | | Web Server | IIS 10.0 |  | | Source Control | TFS Clients (Code version Control) |  | | Supplementary Tools | Toad |  | | Supplementary Tools | Postman(api Debugger tool) |  | | Supplementary Tools | MiniProfiler(code Profiler) |  | | Design Tool | Microsoft Visio 2003 or above |  |   Step 3 Install IIS on Server    Before hosting any application, make sure that IIS (Internet Information Services) is installed on your Hosting Server. If it is not installed or enabled, then follow the below steps.   * Click on Windows icon at the bottom left corner and find the "Control Panel" menu and click on it. * In the "Control Panel", find the "Program and Features" option from the displayed list. * This shows the list of installed programs. Find and click the "Turn Windows feature on or off" option from the left pane, as shown in the following image.  https://f4n3x6c5.stackpathcdn.com/article/hosting-asp-net-web-api-rest-service-on-iis-10/Images/PandFoptionCompiemode.jpeg * Now, in the next popup, find Internet Information Services (IIS) and check on it. * Click "Next" button and then "Finish". It takes a few minutes to install IIS. * After installing IIS, restart your machine.   Note - I have Windows 7 OS and the above process is for Windows 7 PC. The steps might differ depending on your Operating System version. Check whether IIS is installed or not? We simple gave below in all my browsers. I got image IIS <http://localhost/>       1. Application Deployment Level   COPT is multitenant based web application which consist of multiple application.so we should take care all module before publishing.             * 1. Deploy The web API On IIS   Step 1 Install .NET Framework    Although Visual Studio is not required on your hosting Server, it must have .NET Framework installed, as per the .NET framework used to develop the application. If it is not installed, then please install the appropriate .NET Framework available on Microsoft official website.    I assume, you have installed the .NET framework on your Hosting Server.    Step 2 Move the published code on Hosting Server    Copy the "Published files" and paste those on respective Servers where you want to host the Web API REST Service. In our last article, we published Web API REST Service in the E drive of my Server, as shown in the following image .    https://f4n3x6c5.stackpathcdn.com/article/hosting-asp-net-web-api-rest-service-on-iis-10/Images/PublishedCode.JPG  Step 3 Open IIS Manager    Now, open the IIS Manager from Windows menu or in any other ways you have known.      The above image is of IIS 10 Manager of my Windows 10 machine. The view as well as options might be different on your machine depending on the OS version.  Step 4 Add Website    Right click on "Site" in IIS and click on add new website, as shown in the following screenshot.      After clicking on "Add Website" option, it displays the following configuration window.  https://f4n3x6c5.stackpathcdn.com/article/hosting-asp-net-web-api-rest-service-on-iis-10/Images/UnderstandingHostingwindow_Compilemodedotcom.jpg    I hope you understood the preceding configuration by highlighted text.    Step 5 Define Site Name & Application Pool    Define the site name which will be useful to uniquely identify the site within the IIS Server. After specifying the site name, choose the Application Pool from available pools. You can even create a custom application pool with any desired name. Currently, our IIS Manager has the following Application Pools.  https://f4n3x6c5.stackpathcdn.com/article/hosting-asp-net-web-api-rest-service-on-iis-10/Images/AppPools_compilemodeDotcom.jpg    Choose the application pool depending on your application configuration. In this article, we are going to choose DefaultAppPool or separate pool.  Step 6 Browse and select Published Folder path    Now, choose the physical location of published code files by clicking on "Browse" button, as shown in the following image.    https://f4n3x6c5.stackpathcdn.com/article/hosting-asp-net-web-api-rest-service-on-iis-10/Images/BrowsePhysicalPath_compilemodedotcom.jpg    Now, click on "OK" button.  Step 7 Define IP address & Port    Choose one IP address from the list of available IP addresses and define the unique port number for the application, which will be unique within the defined IP address.  Step 8 Choose Protocol & Host name (optional )    Choose the protocol for your application i.e HTTP or HTTPS which requires port 443 to be open and choose the Host name which will be used publicly to access the application. After defining all the configurations, the web site configuration window will look like this.        Now, click on OK button. It will create and add the application in IIS.    https://f4n3x6c5.stackpathcdn.com/article/hosting-asp-net-web-api-rest-service-on-iis-10/Images/HostedDetails_compilemodedotcom.jpg  Step 9 Browse the URL with REST Client and Test the API    Browse the hosted application using REST client with base URL along with API, Controller name, and Action method name, with pattern defined in routing template inside the webapiconfig.cs file.    We can browse applications using the browser but then, we can only test the GET method. So, to test all types of Action Methods, we are using advanced REST client which is a developer extension tool in Firefox browser.    Our hosted Web API REST Service includes these two methods, as given below.   * GetAllEmployees (GET ) * GetEmployeeById  (POST ) which takes id as input parameter   Browse GetAllEmployees method using Advanced REST client which has used HTTP GET verb.      In the preceding screenshot, the GetAllEmployees hosted Web API REST method is returning all the employee lists.    Now, browse Getdata method using Advanced REST client which uses HTTP POST verb and takes id as input parameter.        From the above desired output, it's clear that our Web API REST Service is hosted on IIS successfully.   * 1. Deploy The COPT On IIS  1. First, open your IIS Manager by going to the **start menu** and searching for Internet Information Services (**IIS**) and open Internet Information Services from the search result. Refer to the image shown below.   *You may also use Run then input****inetmgr****to open IIS Manager.*  IIS  Start Menu  2. In your IIS manager, expand the sites folder and right click on Default Web Sites. Then select Explore to open the root directory.  IIS ManagerInternet Information Services Manager(IIS)  3. Once the root directory is open, we can create a folder for our ASP.NET directory location. **wwwroot**is the default IIS directory, but if you want to select different location, you can specify it later after we are done creating the build files for our ASP.NET MVC Application. In this tutorial, this is the directory that I use. **wwwroot » MySites**.    wwwroot directory  4. Now, it’s time to create build file for our sample ASP.NET App. In my case I just pick-up a random project I created from my previous tutorial, you may check it out this link for a sample ASP.NET App “Login App using Form Authentication in via UASM module“. You may also create a new project just to test IIS deployment.  This is how my sample Web Application looks like.  My Site  5. Open your project in Visual Studio and navigate to the **solution explorer**. Right-click on your project name and select **publish**.  Publish optionPublish  6. In the Publish Web Window choose Profile and create name for your publish profile.  Publish Profile  New Profile  7. To customize the profile name for this setting you may set a familiar name to easily identify it for the next time you deploy this application. Enter your desired publish profile name. Then press “OK”.  Profile Name  Name your profile  8. Click “Next” to proceed. Select File System as your publish method.  Project LocationPublish Method  9. Select your published directory. In my case, it is **C:\inetpub\wwwroot\MySites**, which is the default website directory of IIS. Then click “Open.”  Browse project  Select Directory  10. Lastly click on the publish button to proceed. See the image below.  Publish button  Publish Option  11. It may take a while to finish an application to publish. Once, done you can see the notification from the **Output**windows like the screenshot shown below.  Progress - Host ASP NET MVC on Windows with IISSuccessfully Published **IV. Convert your website to IIS Application** Navigate back to your IIS Manager and go to **Sites » Default Web Sites**. Then search for your folder name where we published our websites. In my case, I name it **MySites**. Right-click on the folder name **MySites** and select **Convert to Application.**  Browse application - Host ASP NET MVC on Windows with IISOpen IIS Manager  You’re done!! To open your website application right click on **MySites**. Select Manage Application then choose **browse**.  Manage Application - Host ASP NET MVC on Windows with IISIIS Manager  Browser will popup and display your deployed ASP.NET Application.     * 1. Oracle 12c Production server Details      * 1. Mongo DB production server Details | | ==================== End ========================== | | |
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| SIGNATURE SHEET | |
| Person accepting the subject matter of IIS Deployment | Person handing over the subject IIS Deployment |
| Name: Md Dilshad Ansari | Name: Venkata Tilla |
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