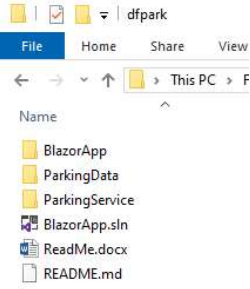


## Parking Service Application

dfPark is a Visual Studio 2019 solution comprised of three projects:

|   |  |
|---|--|
| BlazorApp   | - .NET Core 3.0 Blazor Application (Client)                            |
| ParkingData   | - Shared Data Model  |
| ParkingService  | - .NET Core 3.0 WebAPI Service (Service)                               |
|  | <p>ReadMe.docx – <b>THIS FILE</b></p> <p>README.md – GitHub Readme</p> |

## Application Requirements

The solutions utilizes the latest .NET Core technologies which may require additional downloads. Visual Studio needs to be updated in order to run the .NET Core 3.0 libraries.

### Visual Studio 2019

|   |  |
|---|--|
| <a href="https://visualstudio.microsoft.com/downloads/">https://visualstudio.microsoft.com/downloads/</a>   |  |
| <a href="https://dotnet.microsoft.com/download/visual-studio-sdks">https://dotnet.microsoft.com/download/visual-studio-sdks</a>   |  |
| <a href="https://docs.microsoft.com/en-us/visualstudio/install/update-visual-studio?view=vs-2019">https://docs.microsoft.com/en-us/visualstudio/install/update-visual-studio?view=vs-2019</a> |  |

### .NET Core 3.0

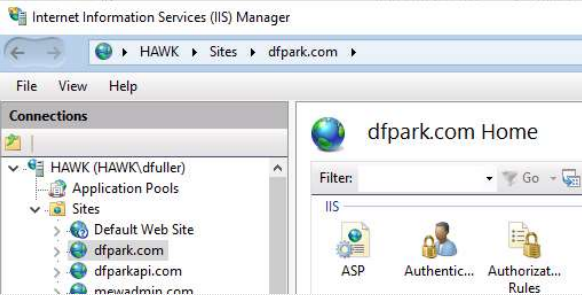
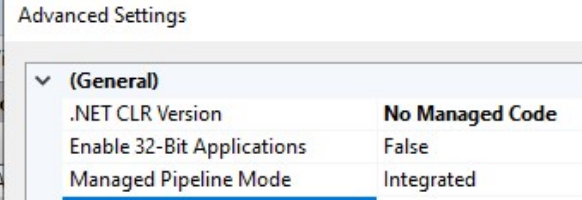
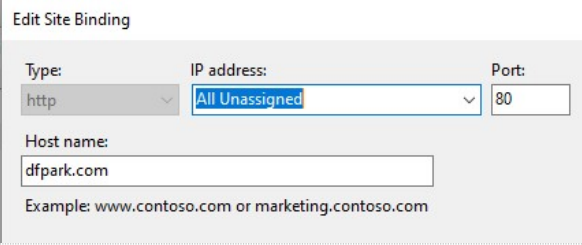
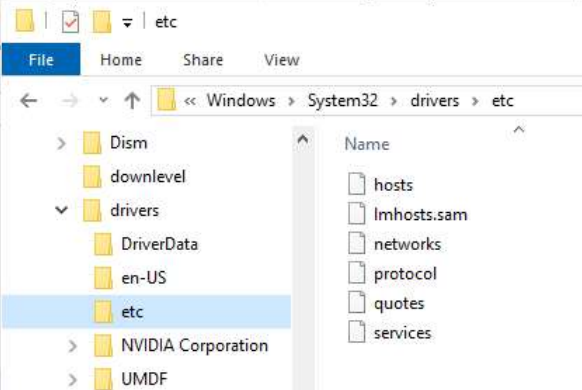
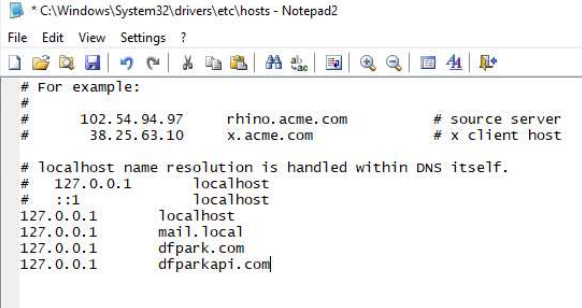
|   |  |
|---|--|
| Latest release of .NET Core Framework   |  |
| dotnet-sdk-3.0.101-win-x64.exe  |  |
| <a href="https://dotnet.microsoft.com/download/dotnet-core/3.0">https://dotnet.microsoft.com/download/dotnet-core/3.0</a> |  |

## User Requirements

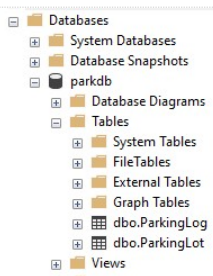
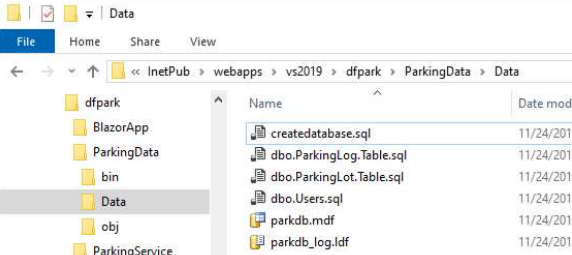
|  |  |
|--|--|
| Internet Information Services must be installed with full Administrative Privileges to create and configure websites and perform local host* file changes.                                 |  |
| * Administrator Rights required. The changes only affect local host and pose no security risk. These settings allow host headers to work with IIS and mimic a true production environment. |  |

## Setup

### Internet Information Services


|   |  |
|---|--|
| Two websites are required: dfpark.com and dfparkapi.com                             |  |
|    | Any host name can be used for sites  |
| Application Pools   |  |
|    | The application pool .NET CLR Version uses "No Managed Code" for .NET Core applications. |
| Host Headers  |  |
|   | Use same host names in previous step   |
| Host file   |  |
|  | C:\Windows\System32\drivers\etc  |
|  | 127.0.0.1 dfpark.com<br>127.0.0.1 dfparkapi.com  |

MS SQL Server

|   |  |
|---|--|
| Create a database called parkdb   | Any database can be used as long as it is referenced in "DefaultConnection" setting of the appsettings.json configuration file.          |
|  |  |
| ParkingData - Data path: dfpark\ParkingData\Data                                  |  |
|  | If you cannot attach the included database file you can recreate the database from the scripts located in the ParkingData / Data folder. |
| createdatabase.sql  |  |
| dbo.ParkingLog.Table.sql  |  |
| dbo.ParkingLot.Table.sql  |  |
| dbo.Users.sql   |  |
| parkdb.mdf  |  |
| parkdb_log.ldf  |  |

Applications

BlazorApp

|   |  |
|---|--|
| The BlazorApp Api connection is found in the appsettings.json file, "ConnectionStrings" section, "ApiUrl" property. The "ApiUrl" value is mapped to a valid url to the ParkService web api. In our example the api is located at "http://dfparkapi.com". The BlazorApp does not need a direct connection to the database. The example below includes both connections need by each service. |  |
| The settings should be changed in the development file and the published file.  |  |
| \appsettings.json   |  |
| \bin\netcoreapp3.0\publish\appsettings.json   |  |
|   |  |
| <pre>"ConnectionStrings": {<br/>  "DefaultConnection": "Data Source=HAWK;Initial Catalog=parkdb;Persist Security Info=True;User ID=parkuser;Password=test123",<br/>  "ApiUrl": "http://dfparkapi.com"<br/>},<br/>"Logging": {<br/>  "LogLevel": {<br/>    "Default": "Information"<br/>  }<br/>}</pre>  |  |
| [DATABASE] is the MS SQL server you will connect to. Credentials must match your environment.   |  |

## ParkingData

|  |  |
|--|--|
| No special configuration changes are needed.<br>Source files define the data structure to be used across applications.<br>The MS SQL database parkdb.mdf resides in this folder. |  |
|  |  |

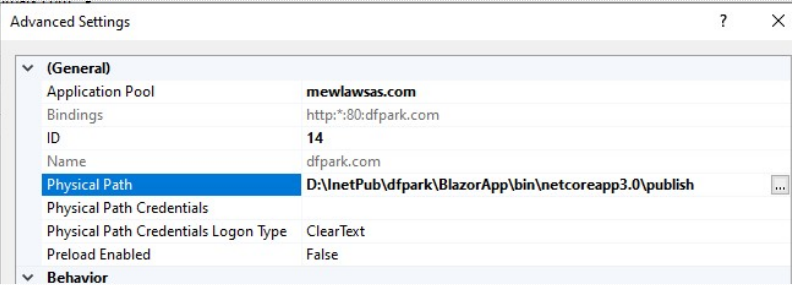
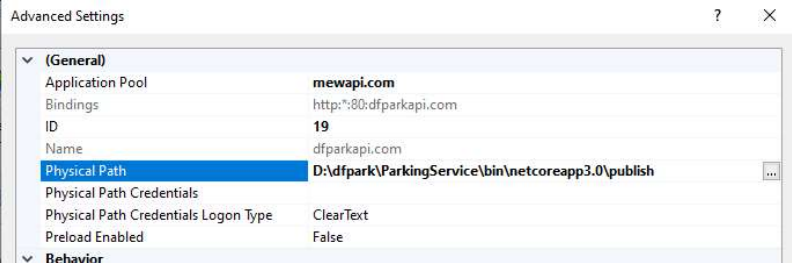
## ParkingService

|   |  |
|---|--|
| The ParkingService Database connection is found in the appsettings.json file, "ConnectionStrings" section, "DefaultConnection" property. The "DefaultConnection" value is mapped to a valid database connection that is used for the web api. In our example the "DefaultConnection" is<br><br><code>"Data Source=[SERVER];Initial Catalog=[DATABASE];Persist Security Info=True;User ID=parkuser; Password=test123"</code><br><br>Only the ParkingService needs a direct connection to the database.<br>The settings should be changed in the development file and the published file. |  |
| \\appsettings.json  |  |
| \\bin\\netcoreapp3.0\\publish\\appsettings.json   |  |
|   |  |

## Run without Recompiling

Set the proper settings in the "appsettings.json" file: BlazorApp "ApiUrl" and ParkService "DefaultConnection".

## IIS Website Configuration

|   |  |
|---|--|
| dfpark.com  |  |
| Set the location path to the published directory on your hard drive                 |  |
|  |  |
| dfparkapi.com   |  |
| Set the location path to the published directory on your hard drive                 |  |
|  |  |
|   |  |
|   |  |