IIS Deployment Guide for NSDL

1. Prerequisites

Ensure you have:

- Windows Server (2016, 2019, or 2022 recommended)

- IIS Installed

- .NET 9.0.103 Hosting Bundle Installed

- SQL Server 2019 Installed

- Firewall & Network settings updated for IIS

2. Install IIS and Required Features

Run as Administrator:

Enable-WindowsOptionalFeature -Online -FeatureName IIS-WebServerRole, IIS-WebServer, IIS-CommonHttpFeatures, IIS-HttpErrors, IIS-StaticContent, IIS-DefaultDocument, IIS-ApplicationDevelopment, IIS-ISAPIExtensions, IIS-ISAPIFilter, IIS-HttpLogging, IIS-RequestMonitor, IIS-Security, IIS-URLAuthorization, IIS-RequestFiltering, IIS-WindowsAuthentication, IIS-ManagementConsole, IIS-ManagementService, WAS-WindowsActivationService, WAS-ProcessModel, WAS-NetFxEnvironment, WAS-ConfigurationAPI -NoRestart

3. Install .NET 9.0 Hosting Bundle

1. Download from .NET Hosting Bundle (https://dotnet.microsoft.com/en-us/download/dotnet/9.0)

2. Install ASP.NET Core 9.0 Hosting Bundle

3. Verify Installation: dotnet --list-runtimes

4. Publish NSDL Application

1. Open Visual Studio -> Publish

2. Select 'Folder' -> Publish to a target directory

3. Copy the published files to the IIS server

5. Configure IIS for Deployment

1. Open IIS Manager (inetmgr)

2. Right-click 'Sites' -> Add Website

3. Set Site Name: NSDL, Physical Path: Folder with published files

4. Assign App Pool (No Managed Code, AlwaysRunning)

6. Secure Secrets & Environment Variables

Use IIS Environment Variables:

- DefaultPassword = Admin@123

- JwtSettings__Secret = VkpJBqitQ1ERpSHTiFBLcBB2Dswpph6VL+jtuXZrmvA=

- JwtSettings__Issuer = NSDL_API

- JwtSettings__Audience = NSDL_Users

- JwtSettings__AccessTokenExpirationMinutes = 30

- ConnectionStrings__UAT = Server=nsdl-oneture.cbcva9bmi39o.ap-south-1.rds.amazonaws.com,1433;Database=oneture_db;User ID=admin;Password=********;Encrypt=False;TrustServerCertificate=True;Connection Timeout=30;

7. Configure web.config for IIS

Ensure web.config exists in the published folder:

```
<configuration>
  <system.webServer>
   <handlers>
    <add name="aspNetCore" path="*" verb="*" modules="AspNetCoreModuleV2" resourceType="Unspecified"/>
   </handlers>
    <aspNetCore processPath="dotnet" arguments="NSDL.dll" stdoutLogEnabled="false" stdoutLogFile=".\logs\stdout" hostingModel="InProcess"/>
  </system.webServer>
</configuration>
```

8. Restart & Test the Application

1. Restart IIS: iisreset

2. Open browser: http://localhost:5000

3. Check IIS logs: Get-EventLog -LogName Application -Source ASP.NET_Core

Your NSDL API (.NET 9 + SQL Server 2019) should now be running on IIS.