#Company\_Logo#

**Deployment Guide for**

**App\_Name**

*User guide for all the roles in App\_Name*

*The guide provides functional description of features and actions available in generated application.*

Company\_Name

Date\_Create

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App\_Name Deployment Guide (Date\_Create at Time\_Create)

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Table of Contents

[Preface 4](#_Toc445810297)

[Intended Audience 4](#_Toc445810298)

[Document Accessibility 4](#_Toc445810299)

[Related Documents 4](#_Toc445810300)

[Conventions 4](#_Toc445810301)

[About this Guide 6](#_Toc445810302)

[Purpose and Scope 6](#_Toc445810303)

[Point of Contact 6](#_Toc445810304)

[Hardware and Software Requirements 7](#_Toc445810305)

[System Requirements 7](#_Toc445810306)

[Terminology 8](#_Toc445810307)

[Pre-requisite 8](#_Toc445810308)

[Section 1: Application Setting 9](#_Toc445810309)

[Section 2: IIS Manager (Deploying Website) 14](#_Toc445810310)

[Section 3: SQL Server (Attaching Database) 16](#_Toc445810311)

[Web.config Settings 21](#_Toc445810312)

[Browsing Application 22](#_Toc445810313)

[Summary 23](#_Toc445810314)

[Annexure – 1 24](#_Toc445810315)

[Pre-processing steps 24](#_Toc445810316)

[STEP 1 24](#_Toc445810317)

[Step 2 25](#_Toc445810318)

[STEP 3 25](#_Toc445810319)

[STEP 4 (IIS Settings) 26](#_Toc445810320)

# Preface

## Intended Audience

This manual is intended for administrators of App\_Name to deploy the application on Company\_Name’s server or on a third party server.

## Document Accessibility

The company focuses on making products, services and supporting documents accessible with great usability to its users. To that end, this document includes features that make information available to users of technology. This document is published in WORD format and does not contain markup. Accessibility standards will continue to upgrade on timely basis and Company\_Name is constantly engaging itself in activities to address technical obstacles to furnish the document to all its customers.

**Accessibility of Links to External Web Sites in Documentation**

The document may contain links to other websites (not owned by Company\_Name) if required. Company does not evaluate nor makes any representations regarding the accessibility of these web sites.

## Related Documents

The document is first revision in its section and available only in document’s section of App\_Name application. The company is not responsible for about authenticity of this document, if accessed from any third party website. The documents available are:

* App\_Name User Guide
* Current Security Settings
* Current Business Rules
* Security Configuration Manual
* Business Rules Configuration Manual
* General Deployment Guide
* Database Design Document
* Troubleshooting Guide

## Conventions

Following are the conventions used in this document:

‘’: words in single inverted commas are the nouns. These words in common English sometimes are used in different manners as required. Inverted commas differentiate these words used as simple English terms and specific terms (nouns). Ex: properties, associations, datatype etc.

TM: The words with TM (Trademark) as superscript are registered words and cannot be used without prior permission of respective organization for commercial and profit activities.

Hyperlinks: Hyperlinks are the content that reflects the source at another place having a web address. The hyperlinks are URLs to these web addresses and are accessible by pressing (CTRL + click) in static documents and simple clicks on web pages.

Save: For any changes you, ‘Save’ button store these changes. The save button is present in all the forms and fields in App\_Name and is not repeatedly acknowledged.

Cancel: For any changes you, ‘Cancel’ button discards these changes. The cancel button is present in all the forms and fields in App\_Name and is not repeatedly acknowledged.

Checkbox: Checkbox presents the conditions that could be marked as true or false. The right sign in checkbox ✓ marks the condition as true. If left blank, the system considers it as false.

Fields: Fields are the space provided to fill the data. Some fields may have conditions depending on respective section or the rules.

# About this Guide

This guide provides the detailed summary and sequential screenshots of deploying the application on any windows based server. The guide describes the configuration steps to set the proper environment of application hosting. The guide can be easily scaled for larger deployments, by simply repeating the steps, configuration sets and testing the application.

## Purpose and Scope

This manual is intended for application administrators. Any prior knowledge of a programming language will be helpful but not required or mandatory.

## Point of Contact

If you have any questions or concerns, please contact Company\_Name at Company\_Email.

# Hardware and Software Requirements

## System Requirements

Table 1: Deployment on Dedicated or Cloud or In Premises

|  |  |  |
| --- | --- | --- |
| OPERATING SYSTEM | Windows 2008 Server or Windows 2012 Server |  |
| WEB SERVER | IIS 7 or IIS 8 as per OS | Use Default application pool  .NET v4.5 |
| Asp.NET Framework | 4.5 |  |
| DATABASE & REPORTING | SQL Server 2008 Express  with Advanced Services and above  OR  SQL Server 2008 R2 and above | Include: SQL Server  Reporting Services (SSRS) |
| DEVELOPER TOOL | Microsoft Visual Studio 2013 | Target Framework:  .NET Framework 4.5 |

Table 2: Deployment on Shared Hosting

|  |  |  |
| --- | --- | --- |
| OPERATING SYSTEM | Windows 2008 or Windows 2012 |  |
| WEB SERVER | IIS 7 or IIS 8 as per OS | * Isolated * Application Pool * FULL TRUST * Use Default application pool .NET v4.5 |
| Asp.NET Framework | 4.5 |  |
| DATABASE & REPORTING | SQL Server 2008 R2 with SSRS and above |  |
| DEVELOPER TOOL | Microsoft Visual Studio 2013 | Target Framework:  .NET Framework 4.5 |

## Terminology

Table 3: List of Abbreviations

|  |  |
| --- | --- |
| IIS | Internet Information Service (IIS) Manager |
| SQL | Structured Query Language |
| OS | Operating System |
| SSRS | SQL Server Reporting Services |
| WWW | World Wide Web |
| HTTP | Hyper Text Transfer Protocol |
| DNS | Domain Name System |

## Pre-requisite

To deploy the application it is necessary that domain name and hosting portal are configured accordingly:

* The hosting server supports windows based platform
* Database is configured with valid credentials (database path, user id and password)

# Section 1: Application Setting

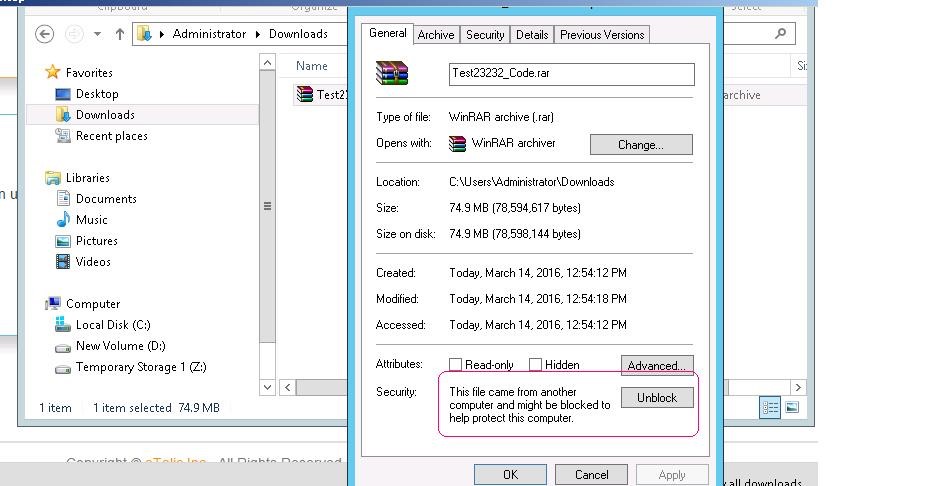
Unblock the RaR file: RAR files should be “unblocked” *before* their contents are extracted.

To “unblock” the RAR file:-

1. Right-click the RAR file
2. Choose **Properties** from the context menu,
3. Click the **Unblock** button in the lower right-hand corner of the resulting dialog,

NOTE: If you do not see an **Unblock** button, then the file is not blocked.

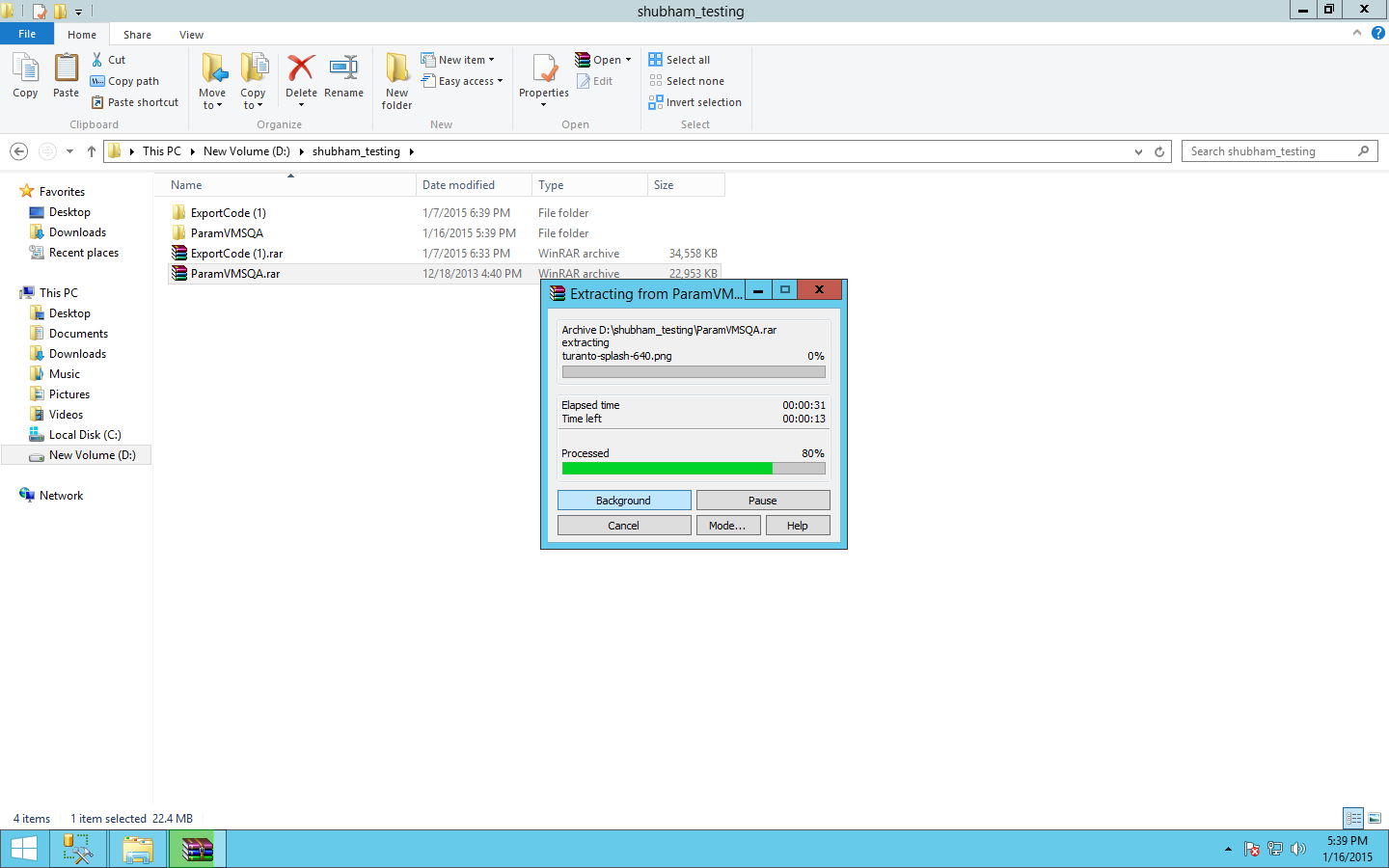
1. Click **OK** or **Apply**:



TODO: Replace this Image

Figure : Unblock RAR file

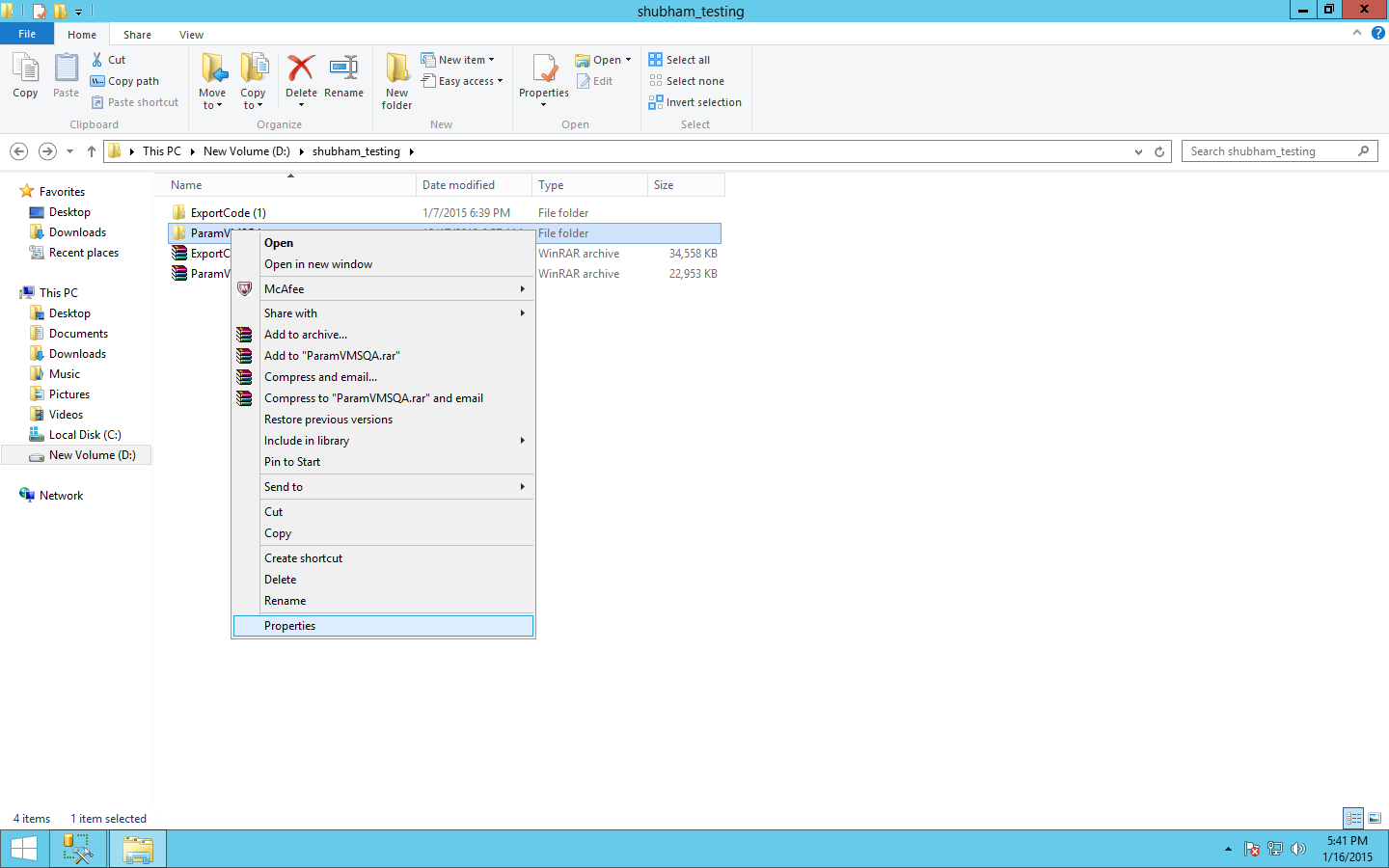
* Extract the code: The code is provided in a zip file. Extract the code to destination folder.



TODO: Replace this Image

Figure 2: Extracting code from zip file.

* Select ‘Properties’ (Right Click on Code Folder)



TODO: Replace this Image

Figure 3: Right Click to select ‘Properties’ Option

* Go to Security Section. Click edit to add and remove users

TODO: Replace this Image

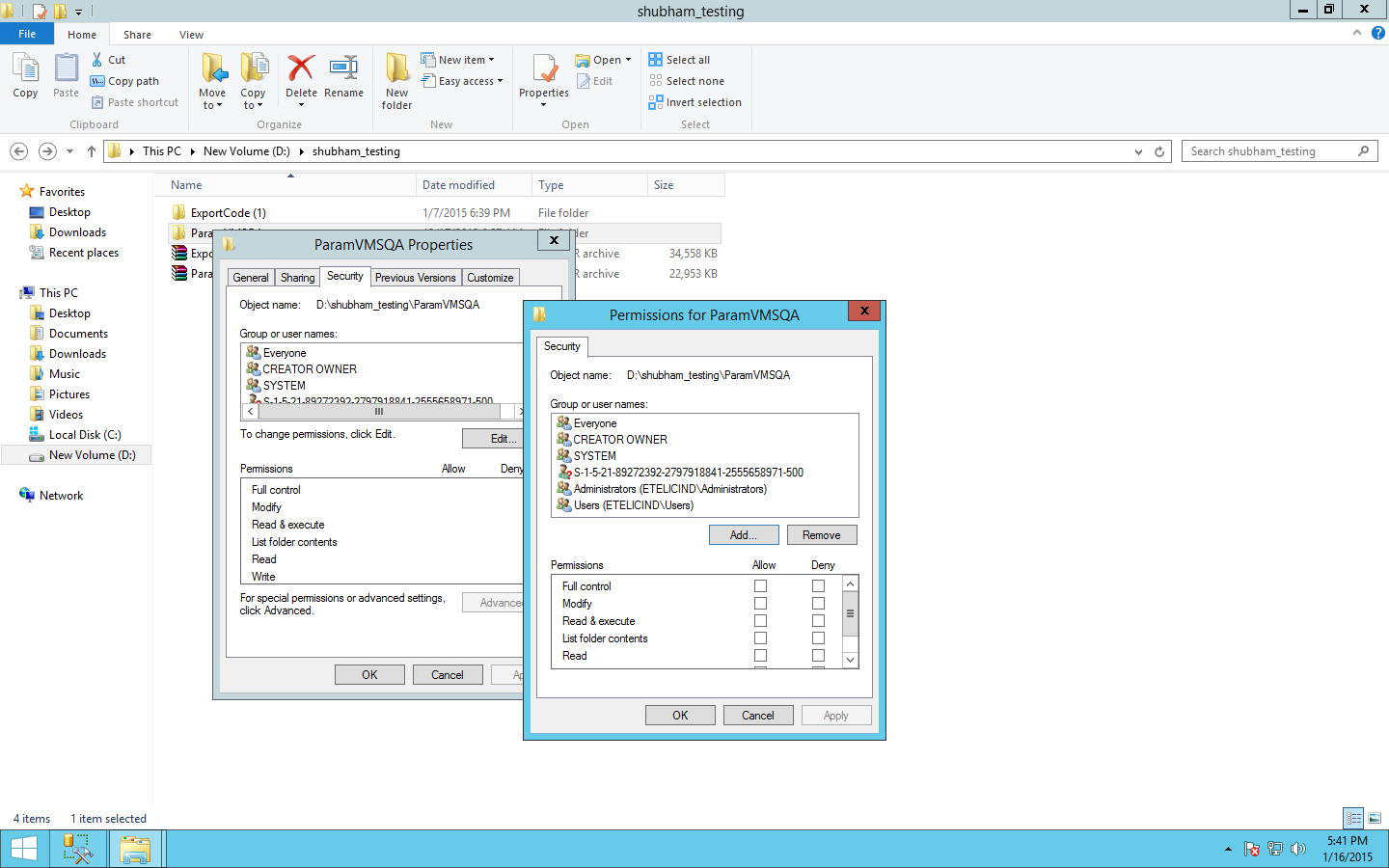
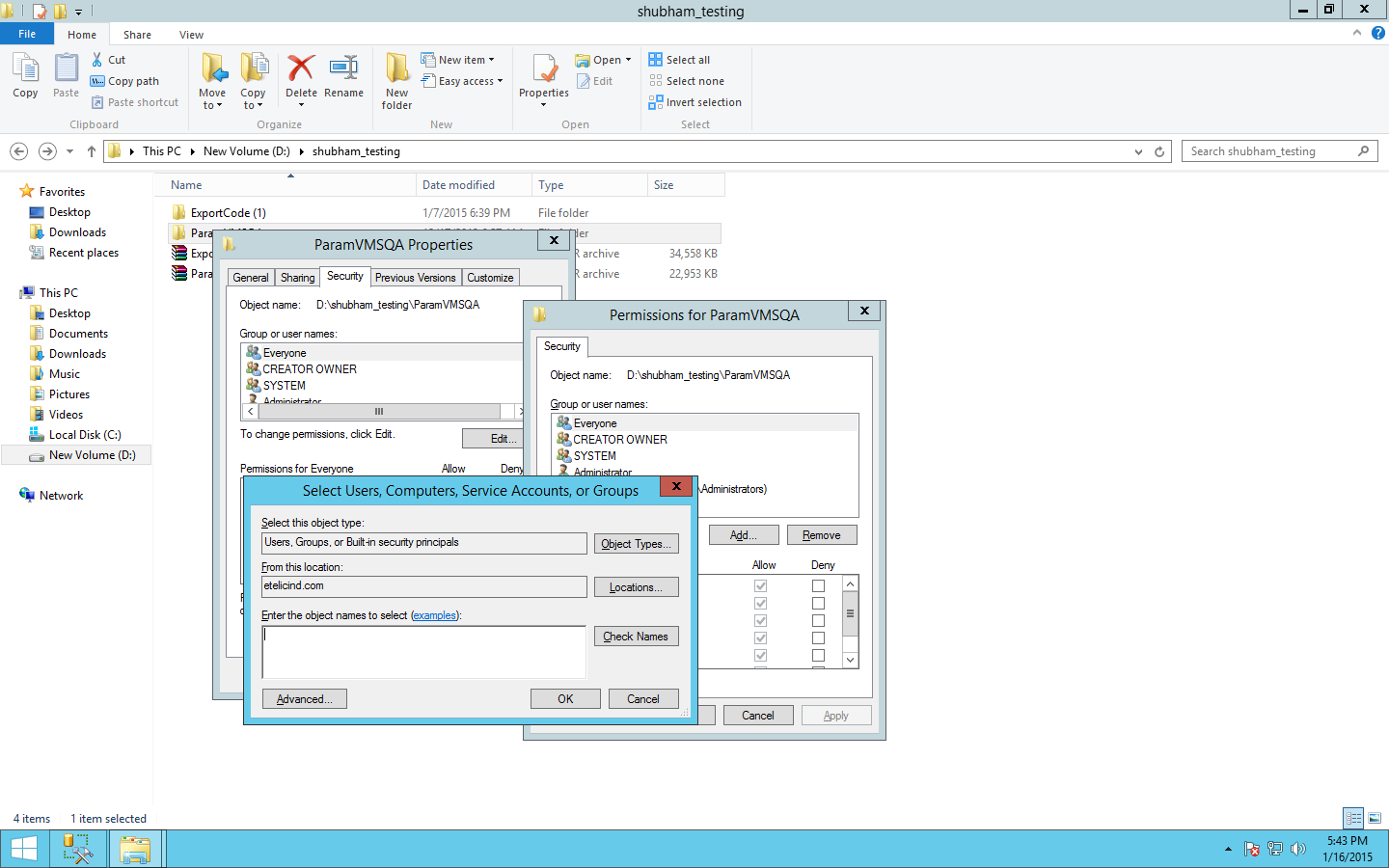


Figure 4: Add the Users

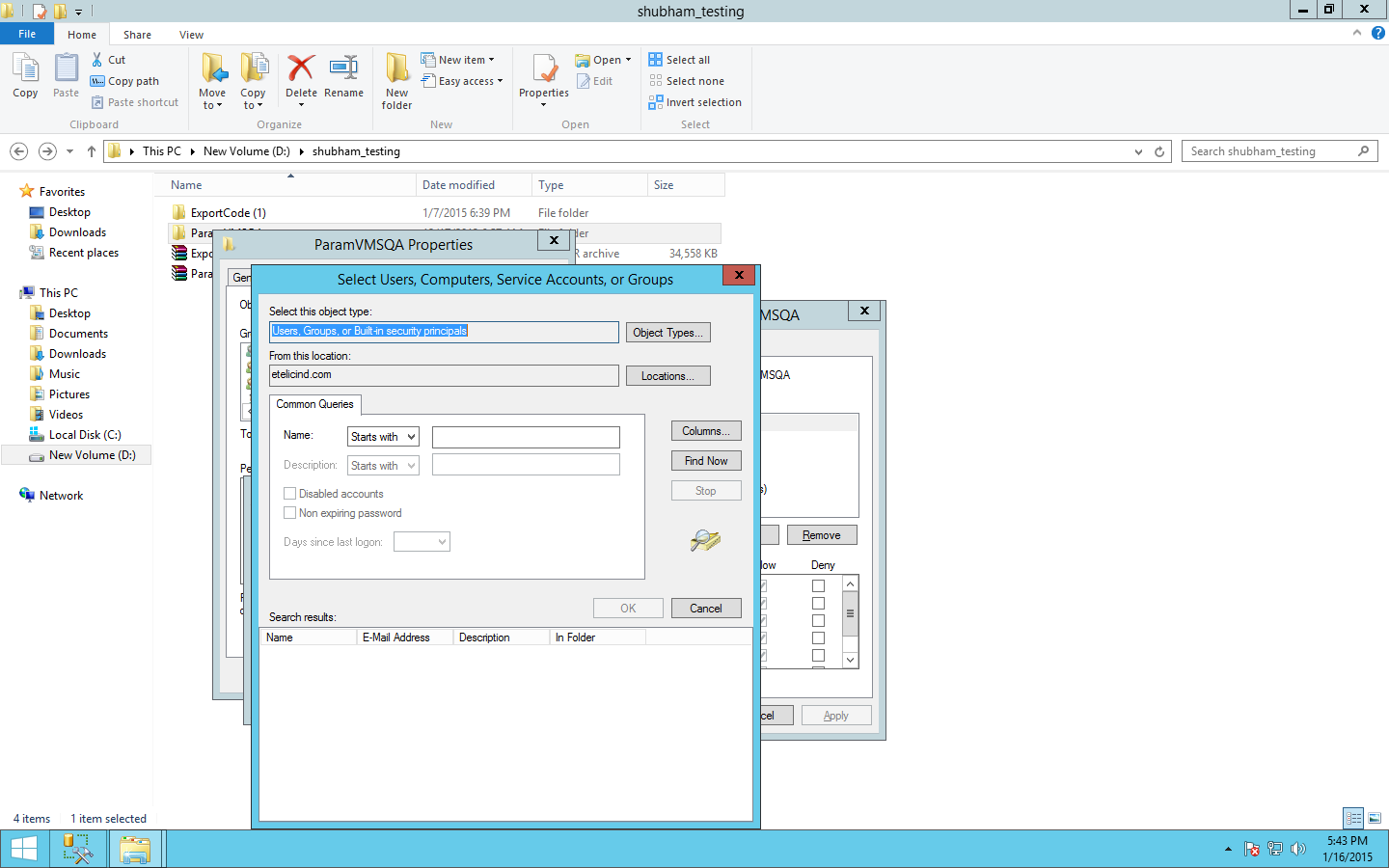
* Click on ‘Add’ to Add new Users



TODO: Replace this Image

Figure 5: Adding New Users

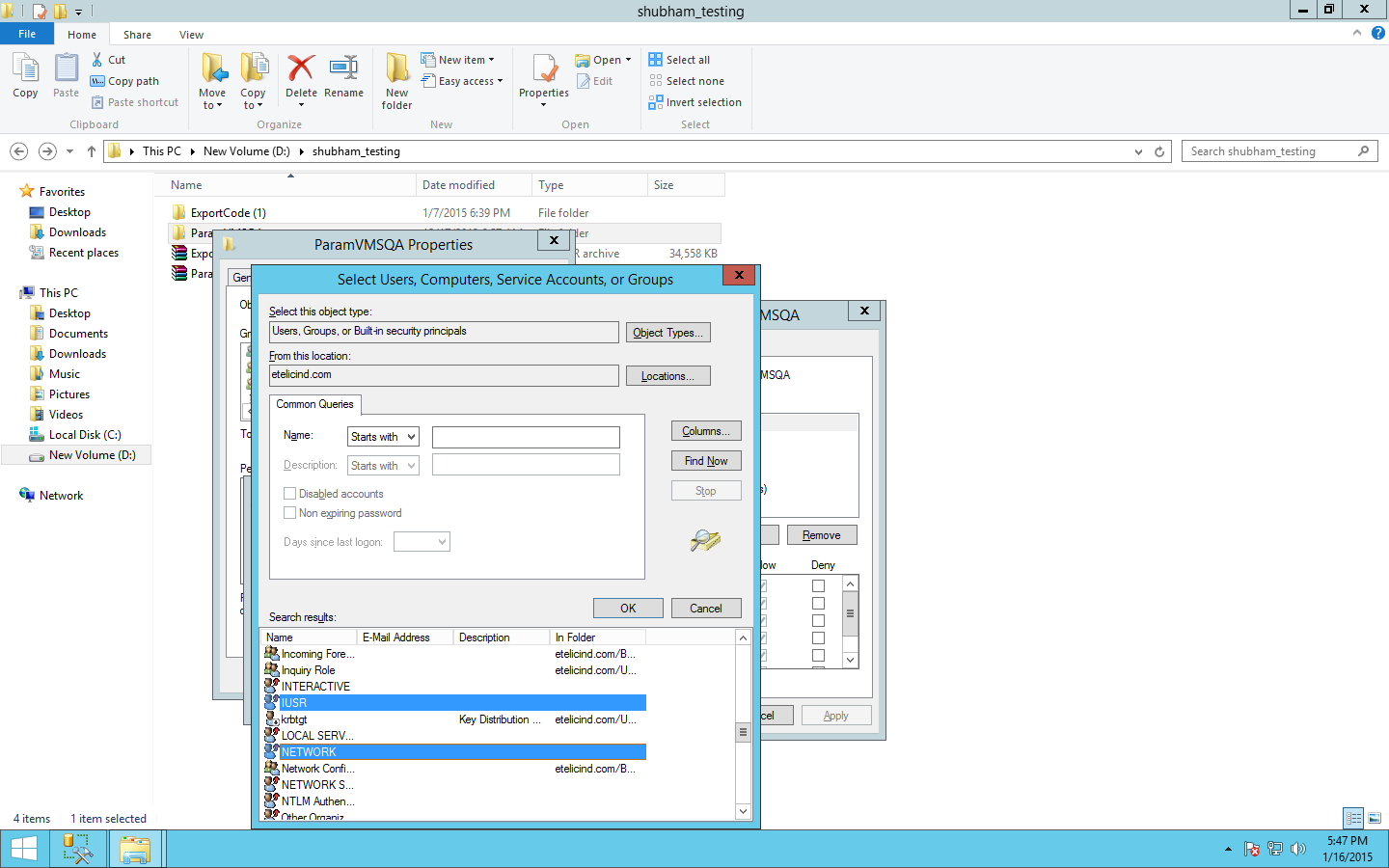
* Click Advanced



TODO: Replace this Image

Figure 6: Find Button to Add Users from Pre-defined List

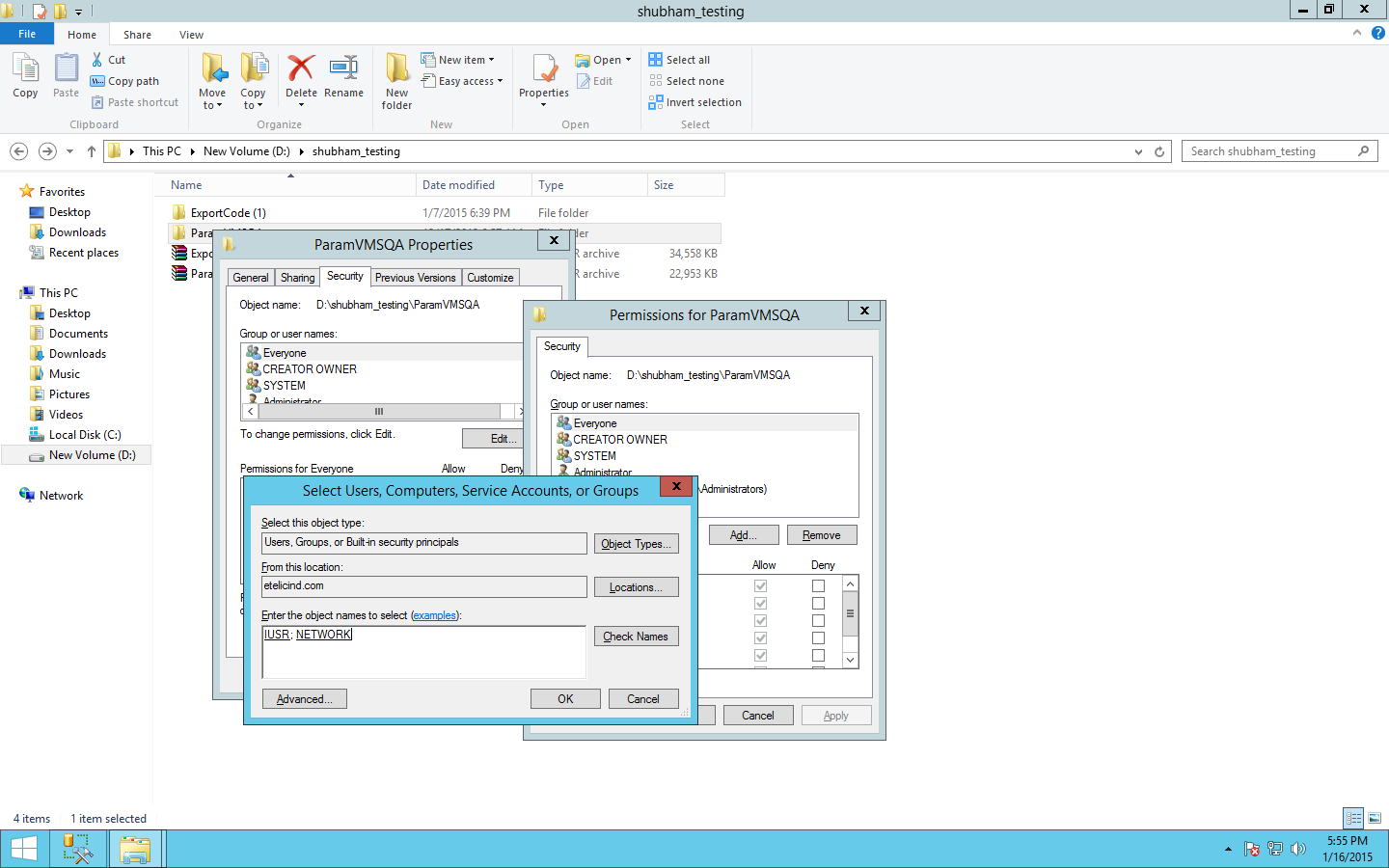
* To find existing users click ‘find now’. From the list select ‘IUSR’ and ‘NETWORK’ using ctrl button.



TODO: Replace this Image

Figure 7: Select ‘Network’ and ‘IUSR’ users

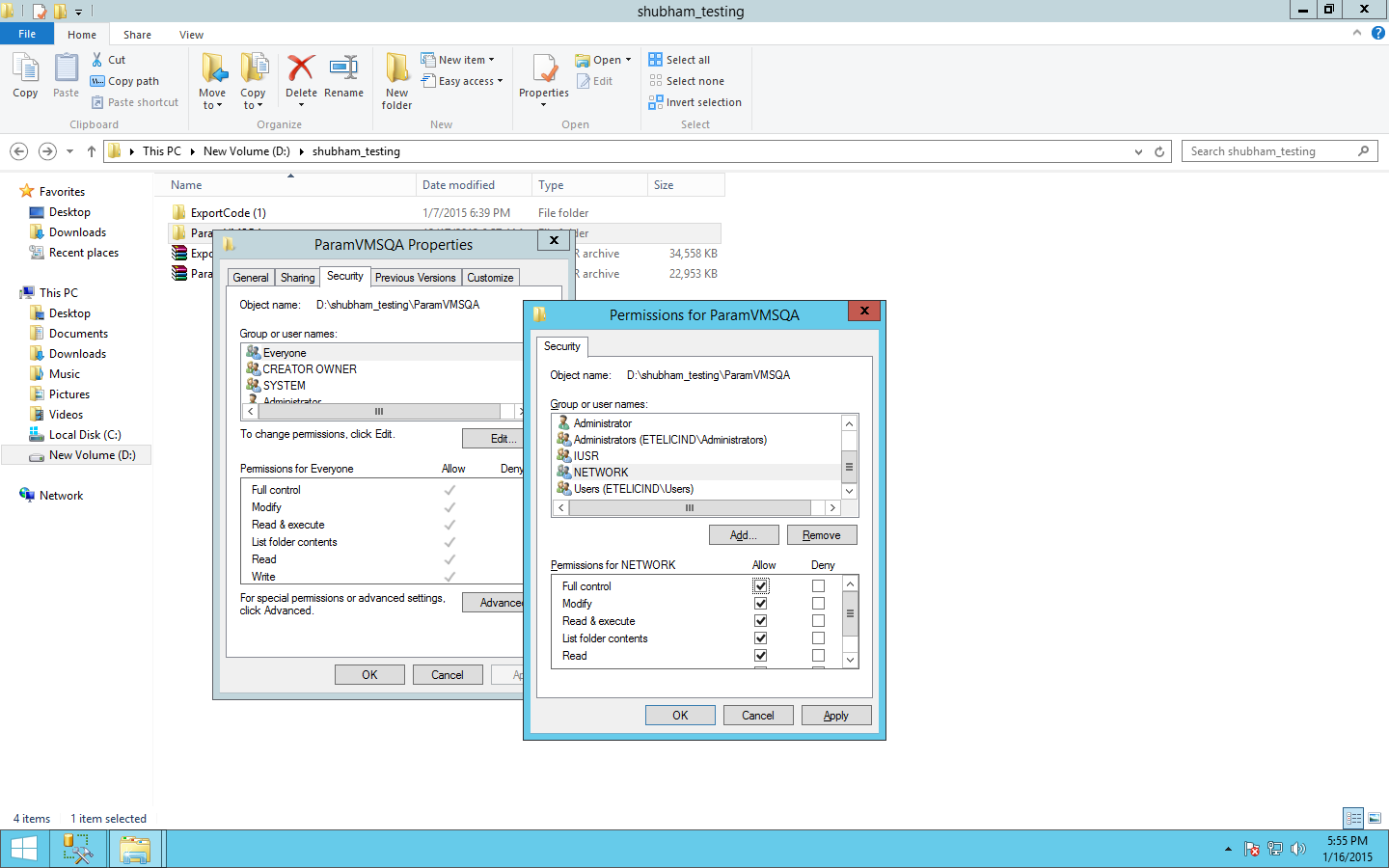
* Confirm your selection and press ok.



TODO: Replace this Image

Figure 8: User Confirmation in Set Users Menu

* Provide Full control to ‘IUSR’ and ‘Network’ user



TODO: Replace this Image

Figure 9: Full Control Permissions to both ‘Network’ and ‘IUSR’ Users

# Section 2: IIS Manager (Deploying Website)

* Open the ‘IIS Manager’. In your [machine\_name] (in blue color box) -> [Sites] -> Default Web Sites. Right click on it and select ‘Add Application’

TODO: Replace this Image

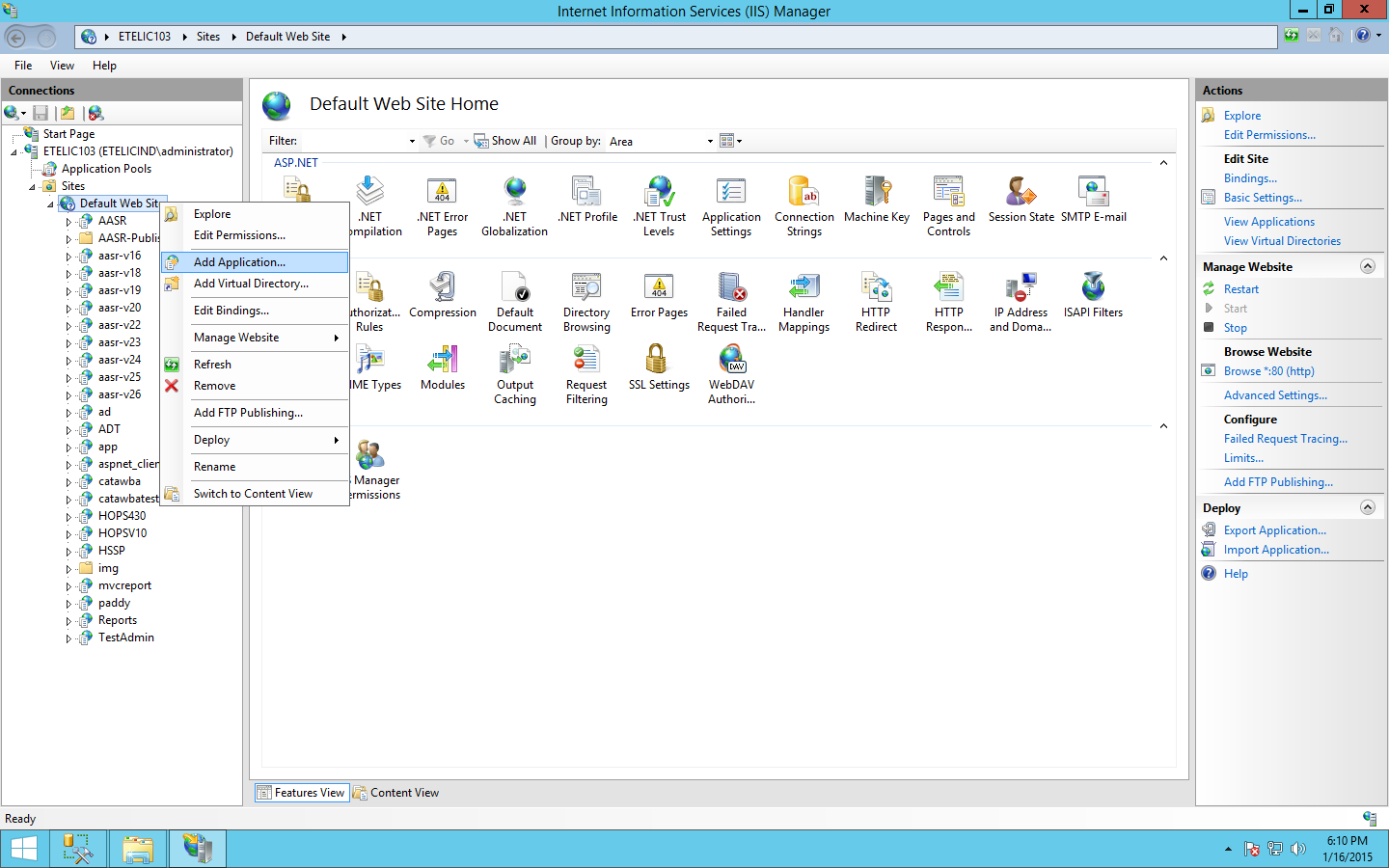
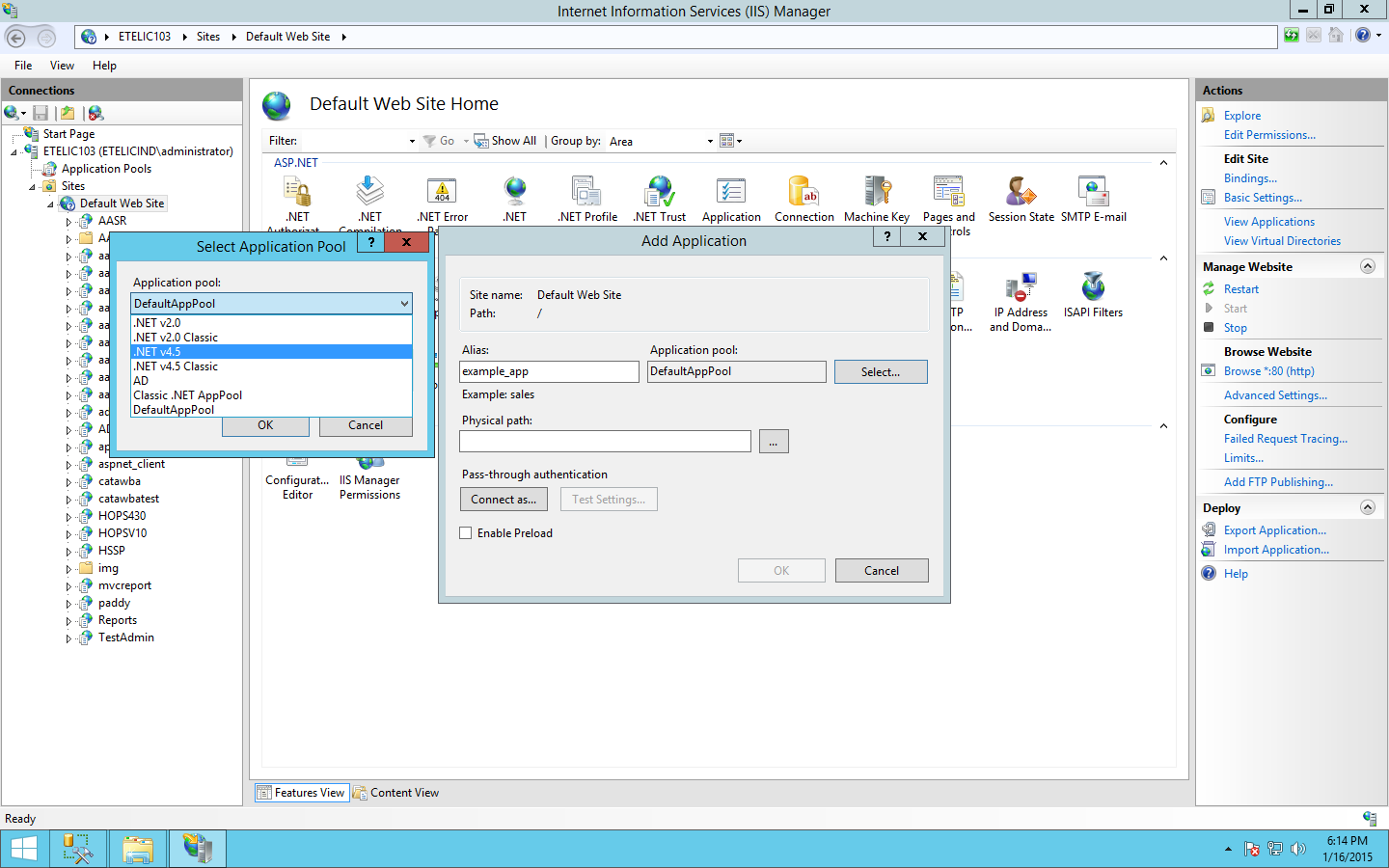


Figure 10: Add Application

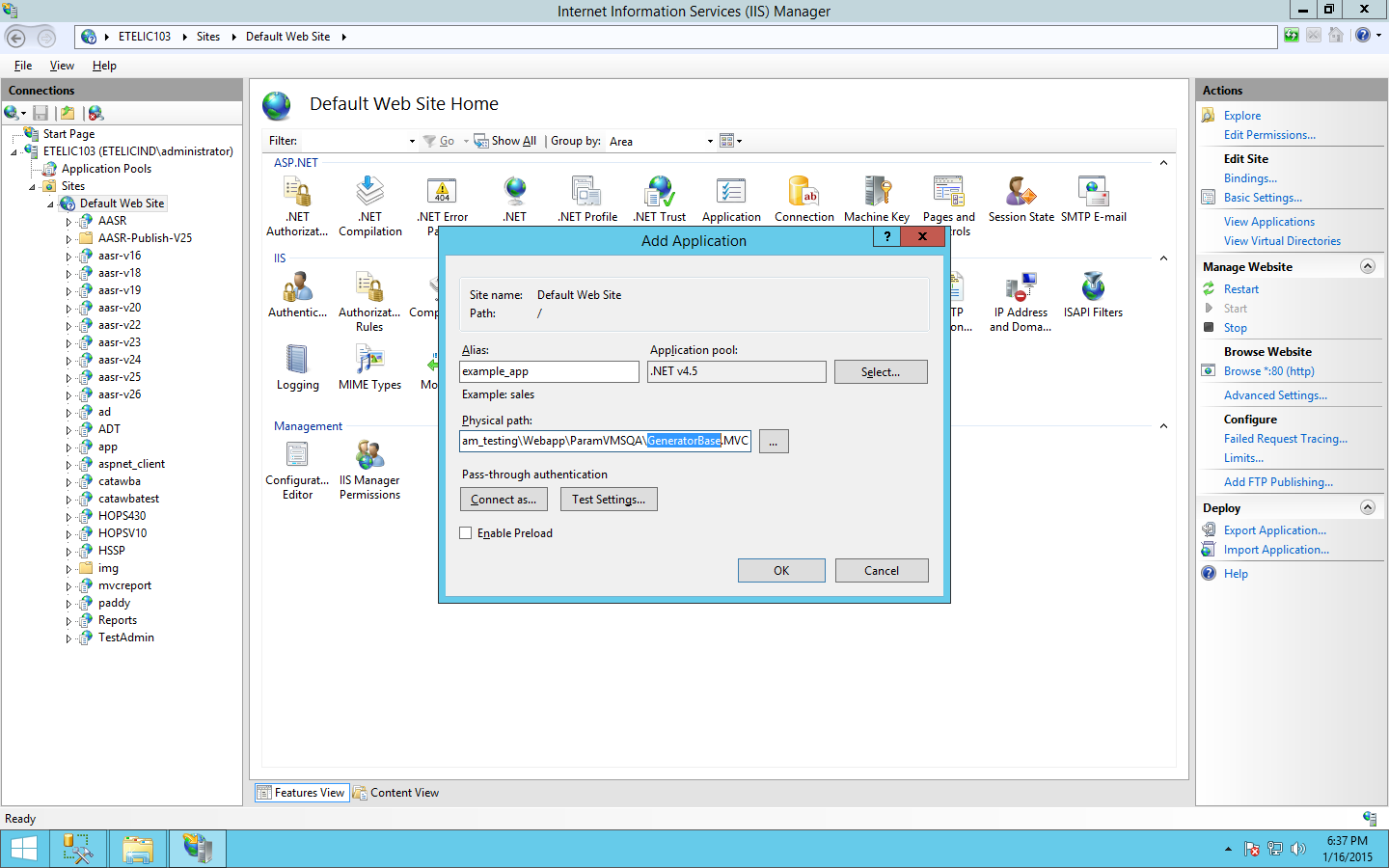
* Write an ‘Alias’ name. This name will appear after your domain name.
* For example: App\_URL.
* Select the ‘Application POOL’: .Net v4.5.



TODO: Replace this Image

Figure 11: Set ‘Alias’ and ‘Application Pool’

* Give the physical path of your application. This path should point to [GeneratorBase.MVC] folder in your application folder.



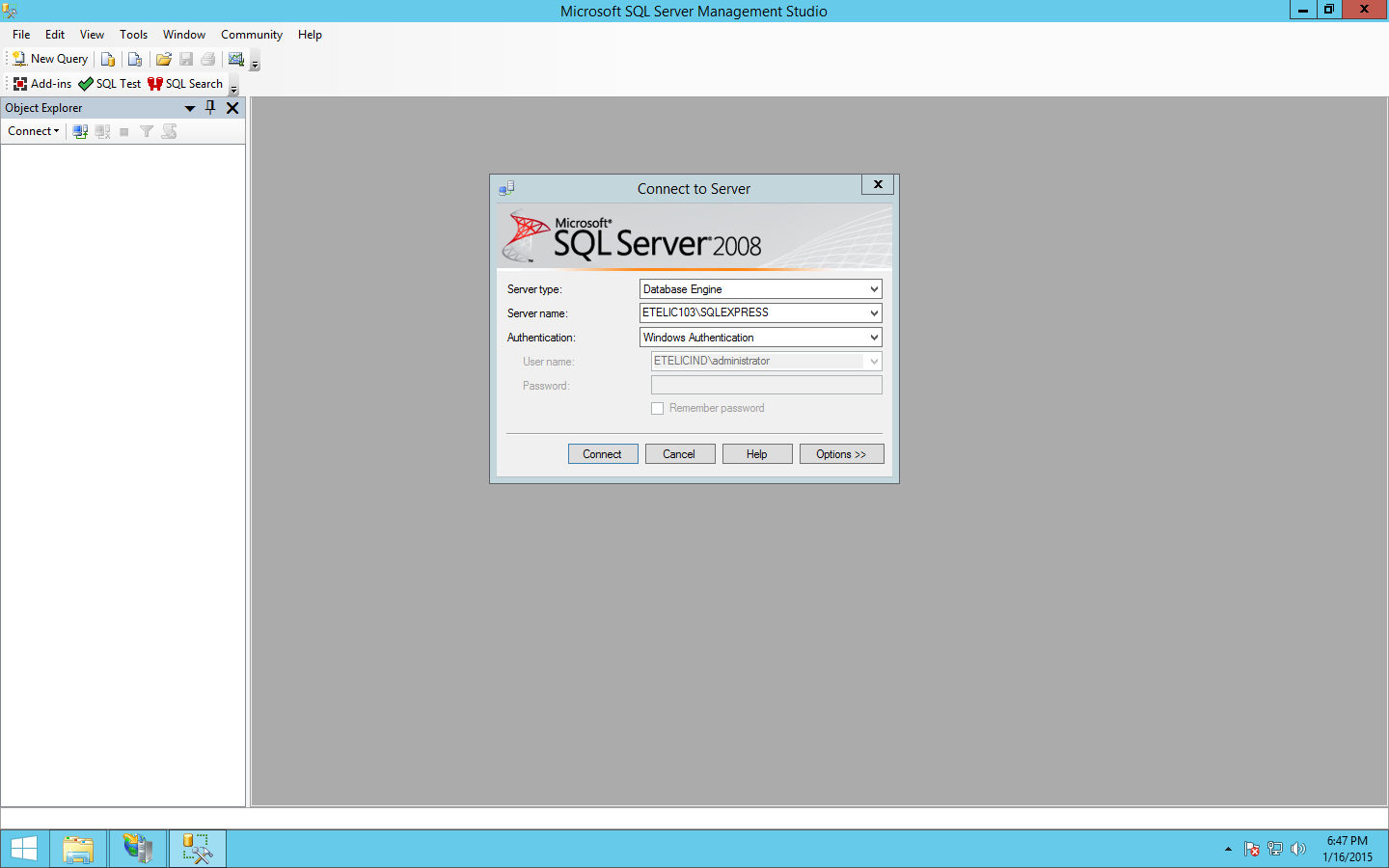
TODO: Replace this Image

Figure 12: Add Path of GeneratorBase.MVC file

# Section 3: SQL Server (Attaching Database)

Open the SQL Server Management Studio. Connect with following settings

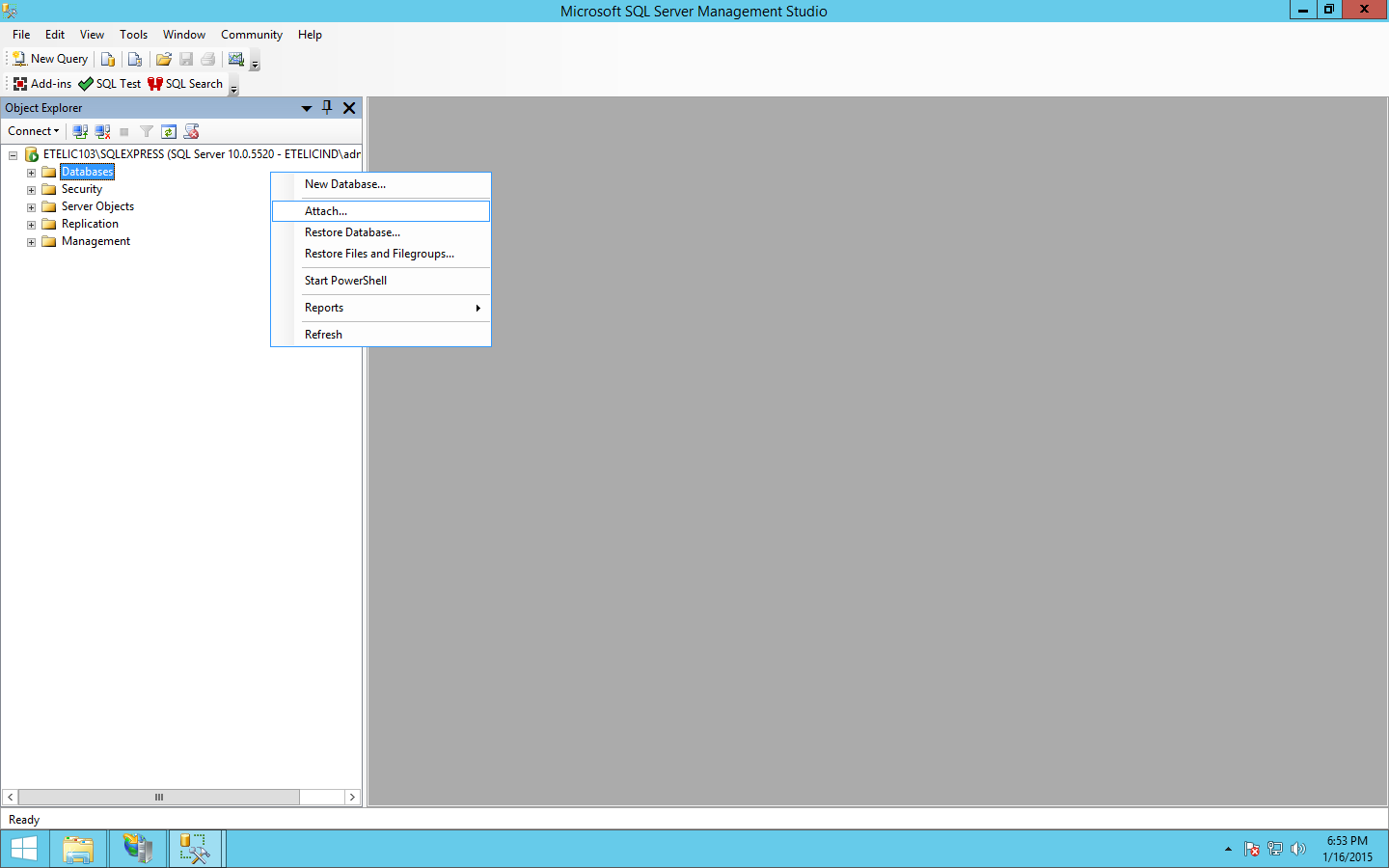
* Server Type: Database Engine
* Server Name: [Your\_Server\_name]
* Authentication: Windows Authentication



TODO: Replace this Image

Figure 13: Database Connection by Microsoft SQL Server Management Studio

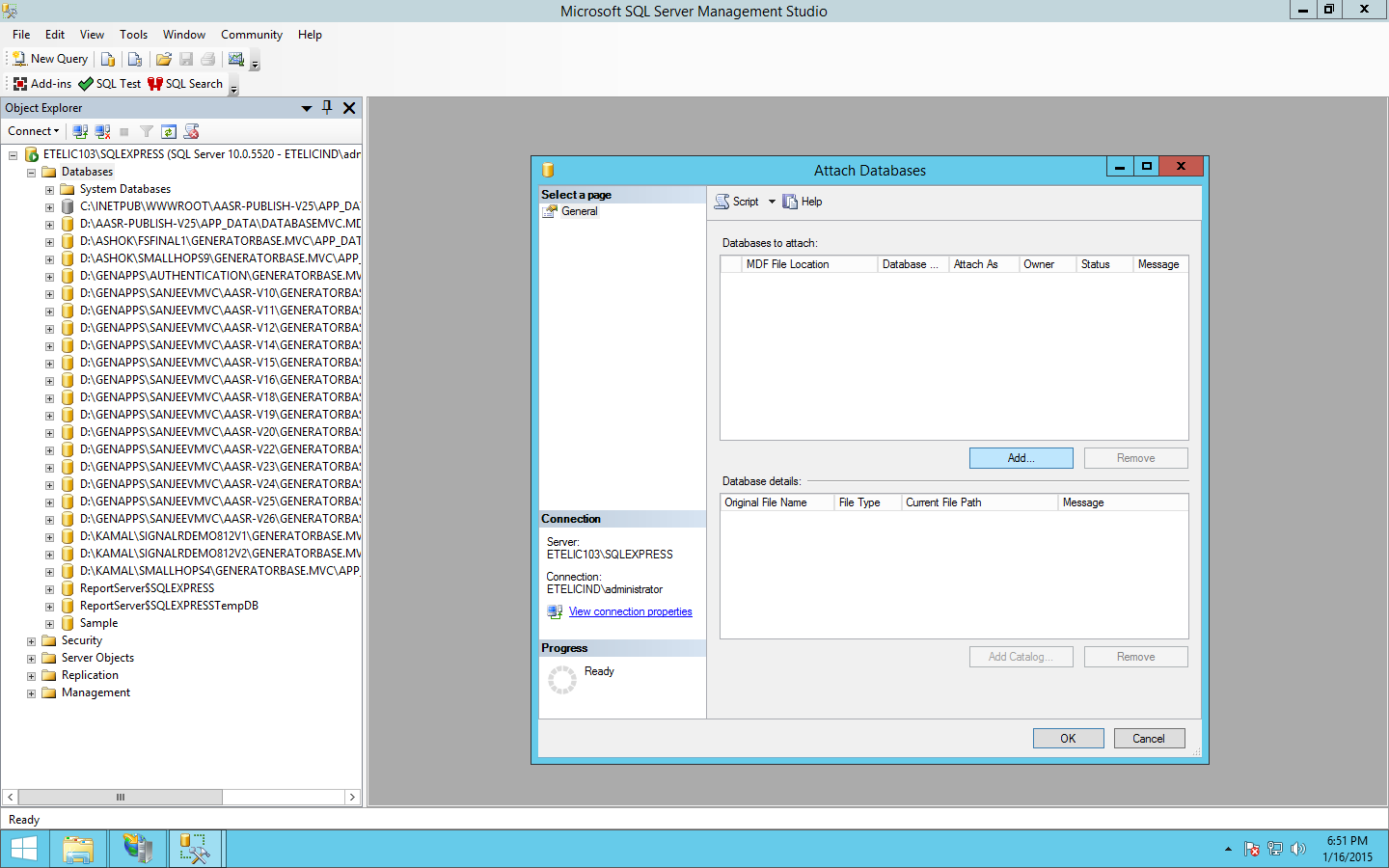
Open Object Explorer from View if Object Explorer if not available by default. Right Click on [Databases] and select ‘Attach…’



TODO: Replace this Image

Figure 14: Attach a New Database on your Server

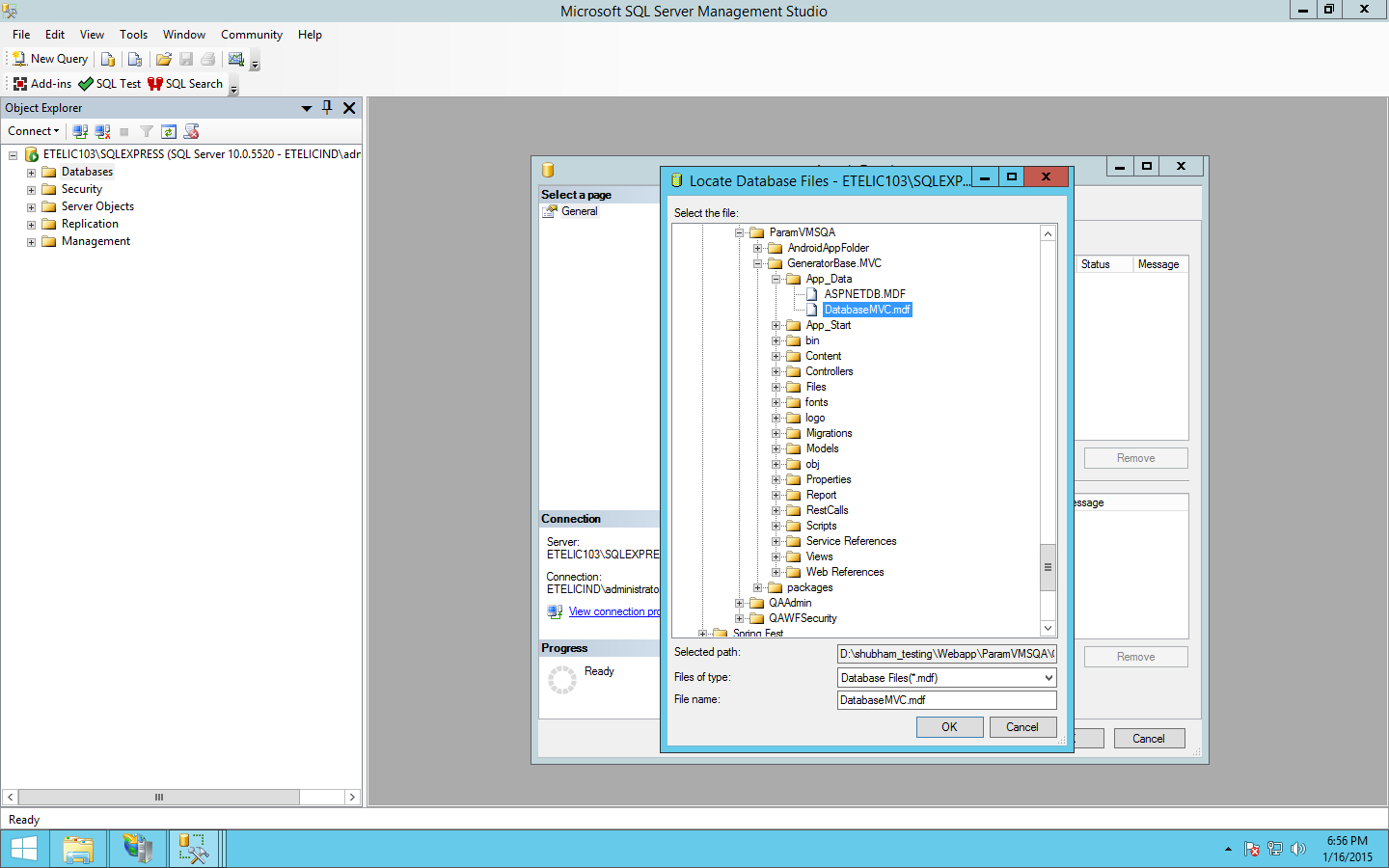
Click Add Application



TODO: Replace this Image

Figure 15: Click the Add button to add a new Database

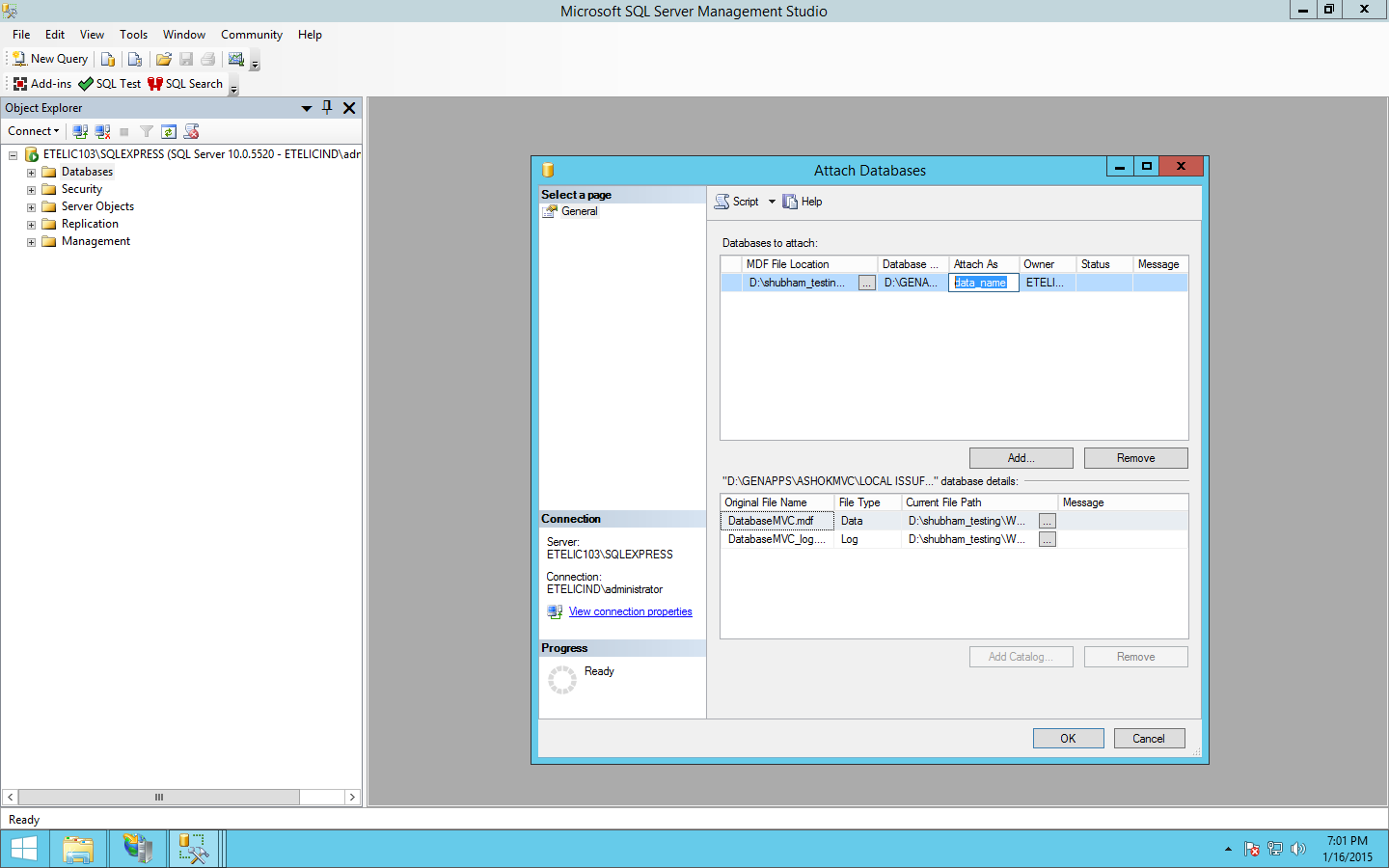
Select the path to [your\_App\_name] -> [GeneratorBase.MVC] -> [App\_Data] -> ‘DatabaseMVC.mdf’



TODO: Replace this Image

Figure 16: Point your ‘DatabaseMVC.MDF’ file

Give the name to your database. This database name will be used in connection string of web.config file of application.



TODO: Replace this Image

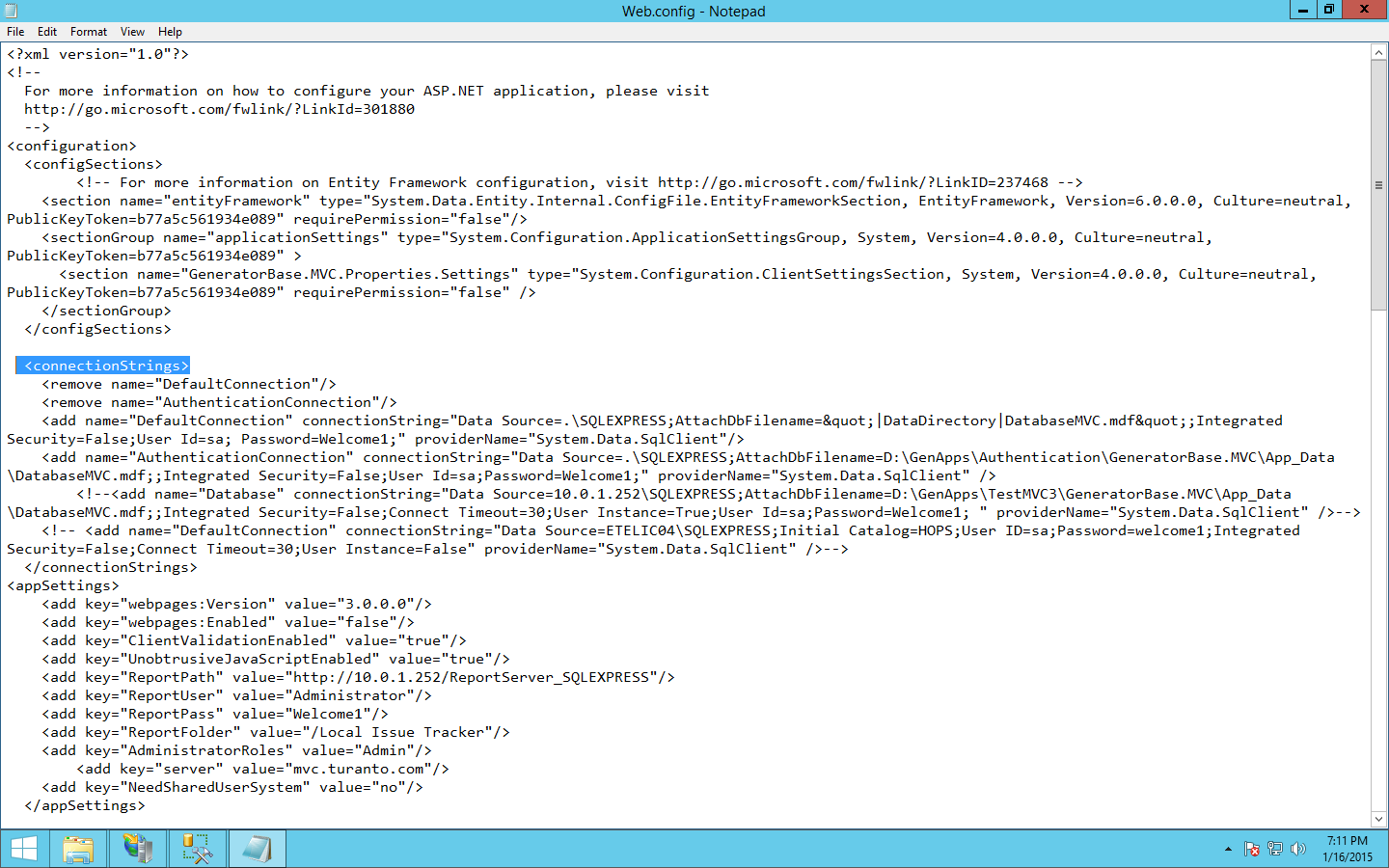
Figure 17: Provide a Suitable Name to your Database

Click ‘OK’ to save and exit the application.

# Web.config Settings

* Open the [Application\_folder] -> [GeneratorBase.MVC] -> Web.config file.
* Go to Connection Strings

Keep a copy of this file at another location to avoid any accidental damage.



TODO: Replace this Image

Figure 18: Highlighted Connection String in Web.config

* Change the database connection string to point to the target server database, Find the line(s) containing following content:
* Replace BOLD items with desired database connection information of your SQL Server settings.

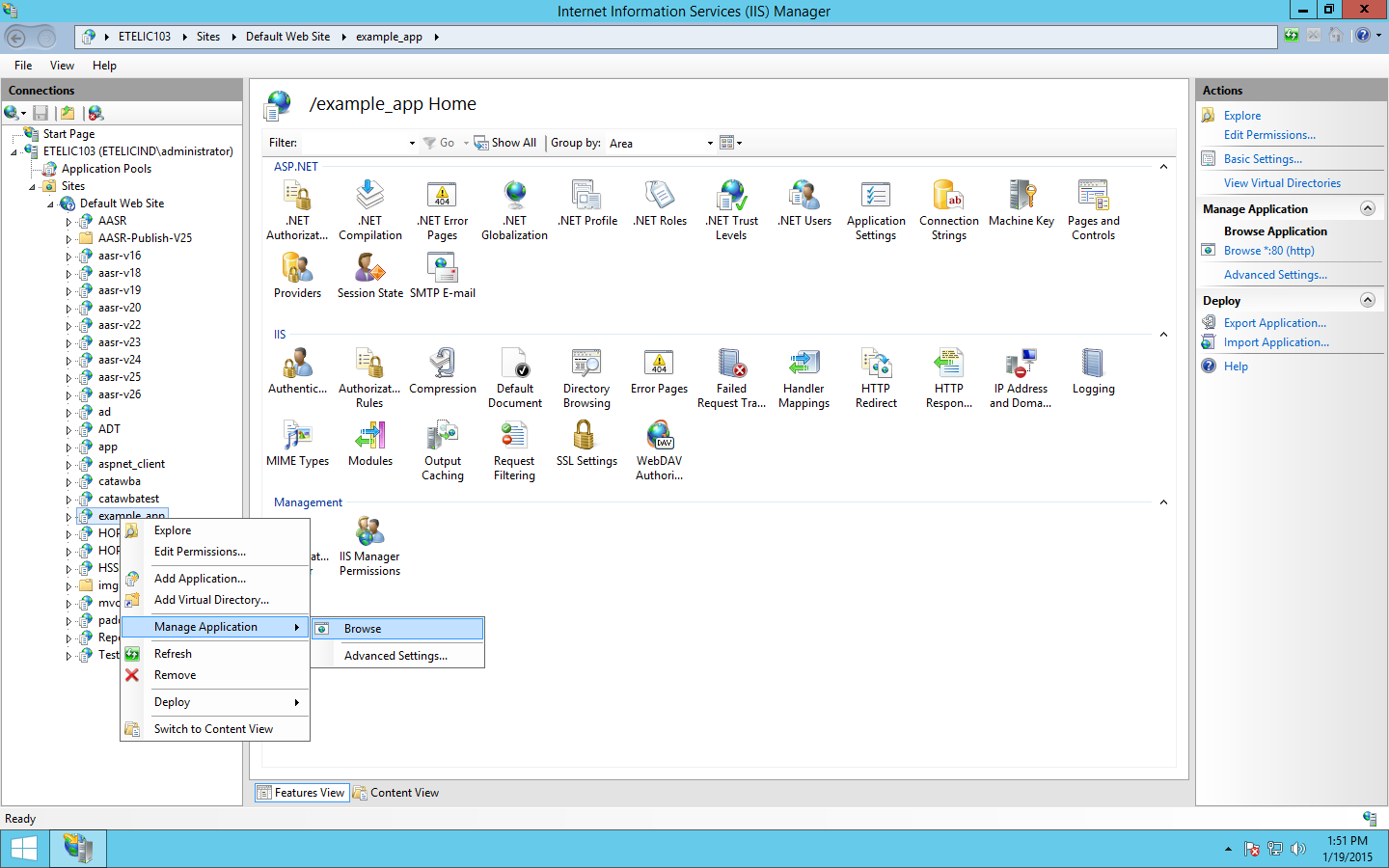
<connectionStrings>

<add name="DefaultConnection" connectionString="Data Source= **SERVER NAME\INSTANCENAME**;AttachDbFilename= &quot;|DataDirectory|DatabaseMVC.mdf&quot;; Integrated Security=False;User Id=**DATABASE-USERID**; Password=**DATABASE-PASSWORD**;" providerName="System.Data.SqlClient"/>

</connectionStrings>

# Browsing Application

* Right click on application
* Select ‘Manage Application’
* Click Browse
* Or type the application address in your browser (ex: App\_Url)



TODO: Replace this Image

Figure 19: Browsing Application

# Summary

Depending on speed of Internet connection, application may take a few minutes for 1st time deployment. The screenshots in above application are taken from windows 2012 serverR2. The deployment of one or more application can be approached by ‘add application’ in ‘Default Web Site’. If you have different configuration, check the relevant authentications and permissions.

# Annexure – 1

How to use the domain controller user(s) authentication in App\_Name application?

## Pre-processing steps

* The roles in application and domain controller should be congruent by default. If not, create the roles and provide permissions first (In application).
* Open GenerateBase.mvc.sln in visual studio
* On the Right hand side look for “Solution Explorer
* The first category is GenerateBase.mvc (Figure 20)
* Click on the expand button to view all the associated files and folders. Here 3 files need a little modifications: 1) CustomPrincipal.cs 2) startup.cs 3) webconfig. (Note: CustomPrincipal.cs file is located in ‘Model’ folder)

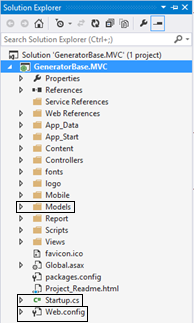


Figure 20: Screenshot of Solution Explorer

### STEP 1

* Look for folder named “Models” and expand it.
* Double click on “CustomPrincipal.cs” in subdomain of ‘Models’ folder to open it.
* Make the following changes as shown in screen shots.

You will find the following default lines in this file (Figure 21 (default)). The green lines represent comments (does not contribute in coding output). Uncomment the above lines and comment the second line (Figure 22 (updated)). The changes are visible by color changes.

**The ‘public WindowsIdentity Identity’ is a unique function and can be easily located (Press control + F if not visible)**

C:\Users\etelic_2\Downloads\Domain Auth Image\Domain Auth Image\1.png

Figure 21 (default): Locate this line in file

C:\Users\etelic_2\Downloads\Domain Auth Image\Domain Auth Image\1_New.png

Figure 22 (Updated): Comment and uncomment the lines

### Step 2

* Double click on file “web.config” to open in subdomain of GenerateBase.mvc
* Edit in following lines

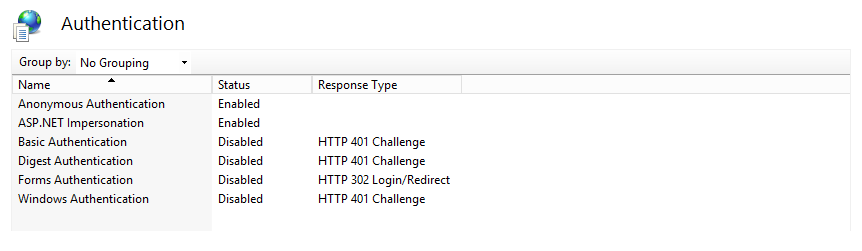
****

### STEP 3

* Click on Build tab in Top ribbon
* Select “Build Solution” or Press Control + Shift + B

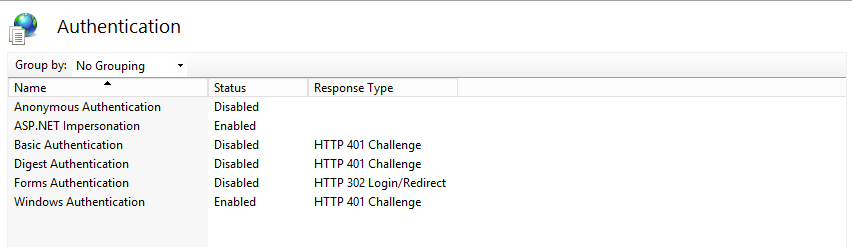
### STEP 4 (IIS Settings)

* Open the IIS Manager
* Select the Default Website
* Select the name of your website
* Find “Authentication” in main window and double click to open it
* Toggle the status of given options (Figure 23 is standard and Figure 24 is modified)



TODO: Replace this Image

Figure 23 (default): Standard view of Status



TODO: Replace this Image

Figure 24 (updated): Toggled Status values