

eForm Angular

Deployment manual

(Windows 10, Windows Server 2016, IIS10)



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1. Node.js & npm installation.

a) Go to website <https://nodejs.org/en>



Node.js® is a JavaScript runtime built on [Chrome's V8 JavaScript engine](#). Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js' package ecosystem, [npm](#), is the largest ecosystem of open source libraries in the world.

Download for Windows (x64)

v6.11.0 LTS

Recommended For Most Users

v8.1.3 Current

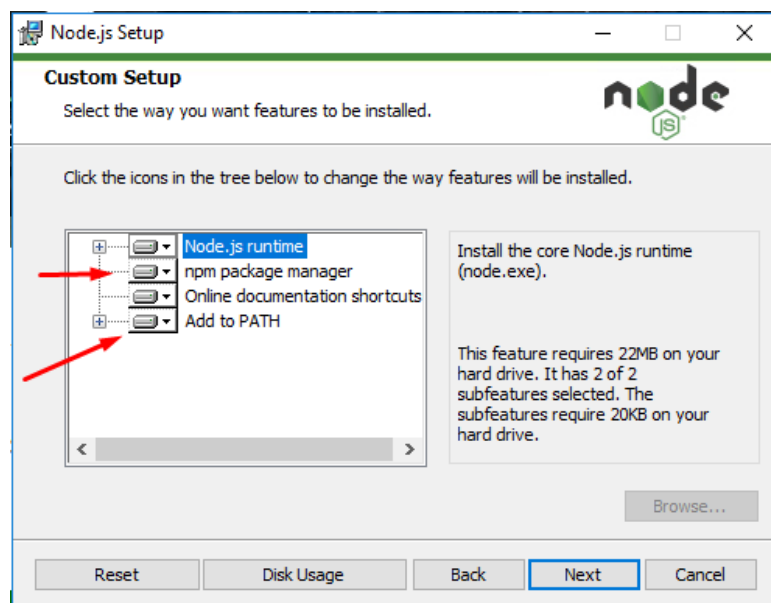
Latest Features

[Other Downloads](#) | [Changelog](#) | [API Docs](#) [Other Downloads](#) | [Changelog](#) | [API Docs](#)

Or have a look at the [LTS schedule](#).

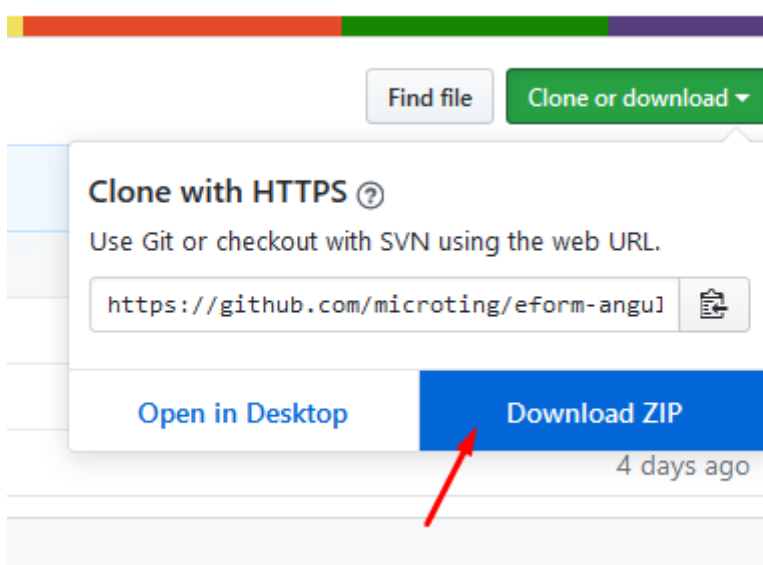
b) Download and run node.js installer.

c) Don't forget to check "npm package manager" & "Add to PATH" (they are checked by default)



2. Downloading latest eForm Angular version

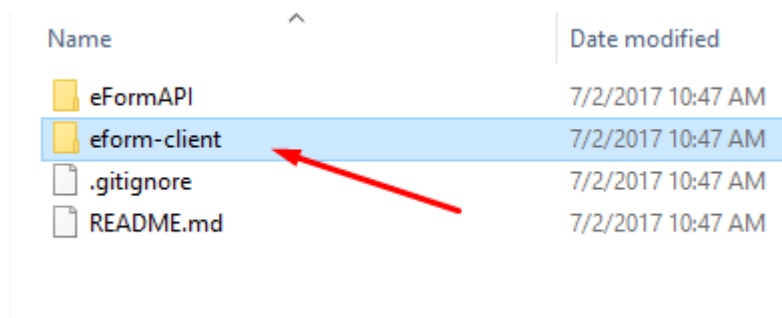
- a) Go to <https://github.com/microting/eform-angular-frontend>
- b) Download ZIP-Archive with the latest version of application.



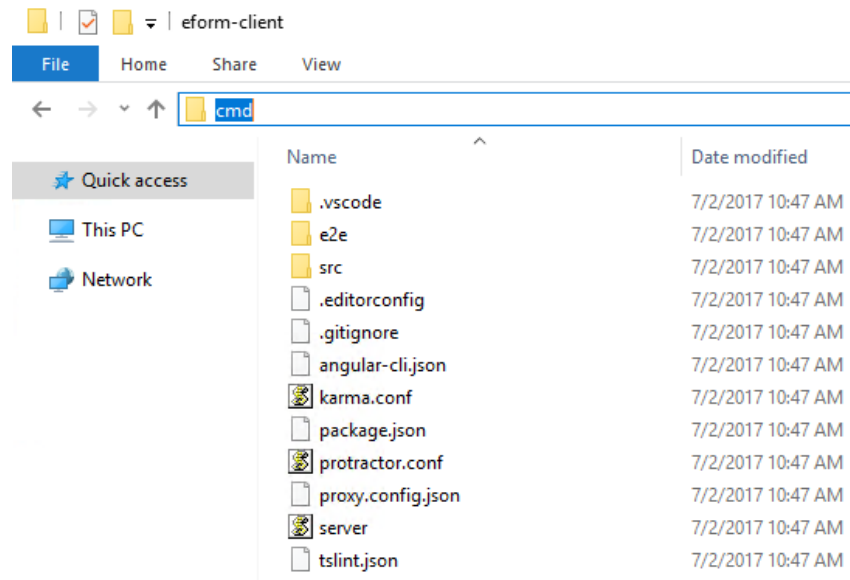
- c) Extract files.

3. Build Angular application

- a) Go to the angular application folder



- b) Call **cmd** from your angular folder



c) Call **npm install**

```

npm
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\Administrator\Desktop\eform-angular-frontend-master\eform-client>npm install
[.....] \ fetchMetadata: sill pacote version manifest for fresh@0.5.0 fetched in 132ms

```

d) Then call **npm run build**

```

gular-frontend-master/eform-client/Hash: 6fa097b93bc352f94ae5
Time: 98858ms
chunk {0} 0.e36db6cd48f3c409272f.chunk.js (common) 7.66 kB {1} {2} {3} {4} {5} {6} {7} {8} {9} [rendered]
chunk {1} 1.43bbf207dbec5eef0fa7.chunk.js 218 kB {2} {3} {4} {5} {7} [rendered]
chunk {2} 2.d4f70adc74dd9f45926e.chunk.js 91.9 kB {1} {3} {4} {5} {7} [rendered]
chunk {3} 3.bd691abcbea9a658736f.chunk.js 72.4 kB {1} {2} {4} {5} {7} [rendered]
chunk {4} 4.30a2e22f1e71790fbd3a.chunk.js 2.5 kB {1} {2} {3} {5} {7} [rendered]
chunk {5} 5.9309850792564b340f1c.chunk.js 5.58 kB {1} {2} {3} {4} {7} [rendered]
chunk {6} polyfills.fec40442396d2ed1636b.bundle.js (polyfills) 234 kB {11} [initial] [rendered]
chunk {7} main.855b30ac62b6f5372f34.bundle.js (main) 395 kB {10} [initial] [rendered]
chunk {8} scripts.17f328773514af183387.bundle.js (scripts) 794 kB {11} [initial] [rendered]
chunk {9} styles.cf9ee441ce35e306ce68.bundle.css (styles) 599 bytes {11} [initial] [rendered]
chunk {10} vendor.32018f530e7084aff837.bundle.js, vendor.dde3da9772f5fd051afd.bundle.css (vendor) 2.09 MB [initial] [rendered]
chunk {11} inline.2b371897c969a747a4e4.bundle.js (inline) 0 bytes [entry] [rendered]

C:\Users\Administrator\Desktop\eform-angular-frontend-master\eform-client>

```

e) Angular application has been built and extracted to **dist** folder

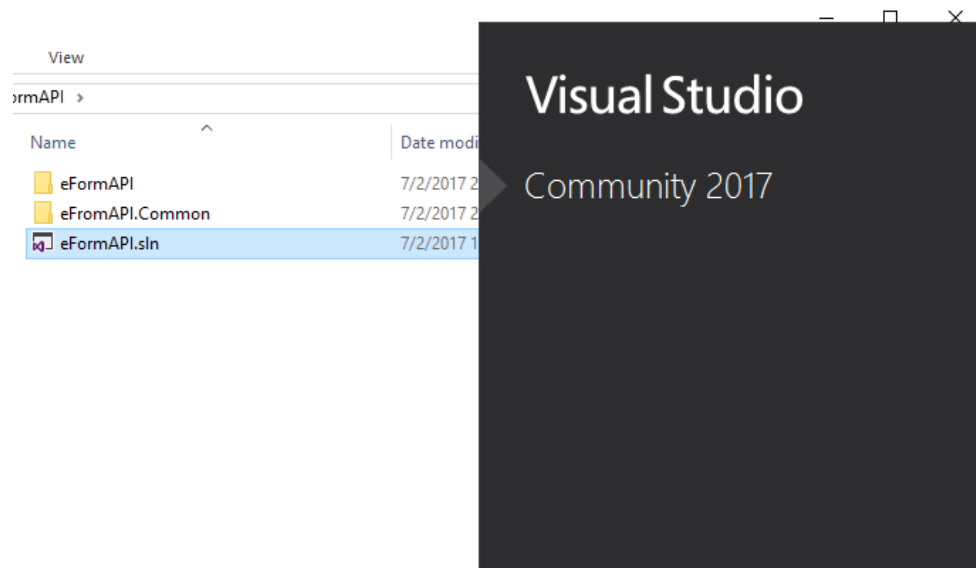
eform-angular-frontend-master > eform-client > dist >				
Name	Date modified	Type	Size	
assets	7/2/2017 11:00 AM	File folder		
0.e36db6cd48f3c409272f.chunk	7/2/2017 11:00 AM	JavaScript File	4 KB	
1.43bbf207dbec5eef0fa7.chunk	7/2/2017 11:00 AM	JavaScript File	83 KB	
2.d4f70adc74dd9f45926e.chunk	7/2/2017 11:00 AM	JavaScript File	39 KB	
3.bd691abcbea9a658736f.chunk	7/2/2017 11:00 AM	JavaScript File	32 KB	
3rdpartylicenses	7/2/2017 11:00 AM	Text Document	0 KB	
4.30a2e22f1e71790fbd3a.chunk	7/2/2017 11:00 AM	JavaScript File	1 KB	
5.9309850792564b340f1c.chunk	7/2/2017 11:00 AM	JavaScript File	2 KB	
favicon	7/2/2017 11:00 AM	Icon	2 KB	
fontawesome-webfont.706450d7bba6374...	7/2/2017 11:00 AM	TrueType font file	120 KB	
fontawesome-webfont.2980083682e94d3...	7/2/2017 11:00 AM	SVG Document	307 KB	
fontawesome-webfont.d9ee23d59d0e0e7...	7/2/2017 11:00 AM	WOFF File	70 KB	
fontawesome-webfont.f7c2b4b747b1a22...	7/2/2017 11:00 AM	EOT File	60 KB	
glyphicons-halflings-regular.448c34a56d...	7/2/2017 11:00 AM	WOFF2 File	18 KB	
glyphicons-halflings-regular.8988968814...	7/2/2017 11:00 AM	SVG Document	107 KB	
glyphicons-halflings-regular.e18bbf611f2...	7/2/2017 11:00 AM	TrueType font file	45 KB	
glyphicons-halflings-regular.f4769f9bdb...	7/2/2017 11:00 AM	EOT File	20 KB	
glyphicons-halflings-regular.fa2772327f5...	7/2/2017 11:00 AM	WOFF File	23 KB	
index	7/2/2017 11:00 AM	Firefox HTML Doc...	1 KB	
inline.2b371897c969a747a4e4.bundle	7/2/2017 11:00 AM	JavaScript File	2 KB	
main.855b30ac62b6f5372f34.bundle	7/2/2017 11:00 AM	JavaScript File	167 KB	
polyfills.fec40442396d2ed1636b.bundle	7/2/2017 11:00 AM	JavaScript File	92 KB	
scripts.17f328773514af183387.bundle	7/2/2017 11:00 AM	JavaScript File	764 KB	
styles.cf9ee441ce35e306ce68.bundle	7/2/2017 11:00 AM	Cascading Style S...	249 KB	
vendor.32018f530e7084aff837.bundle	7/2/2017 11:00 AM	JavaScript File	622 KB	
vendor.dde3da9772f5fd051afd.bundle	7/2/2017 11:00 AM	Cascading Style S...	2 KB	

4. Build Web API application

a) Go to the **API** folder

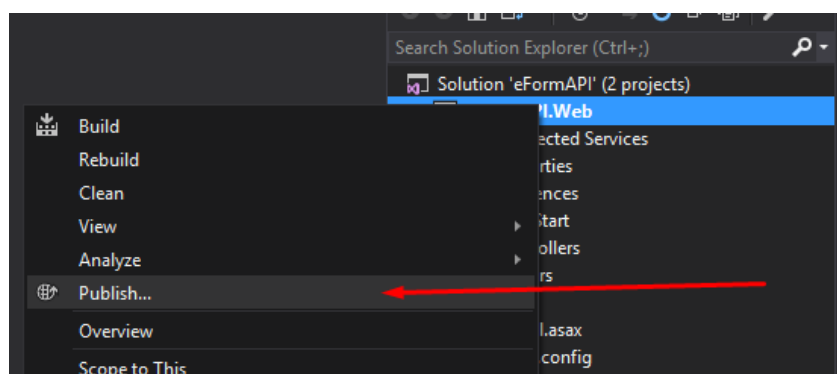
Name	Date modified
eFormAPI	7/2/2017 10:47 AM
eform-client	7/2/2017 11:00 AM
.gitignore	7/2/2017 10:47 AM
README.md	7/2/2017 10:47 AM

b) Open **eFormAPI.sln** in **Visual Studio**

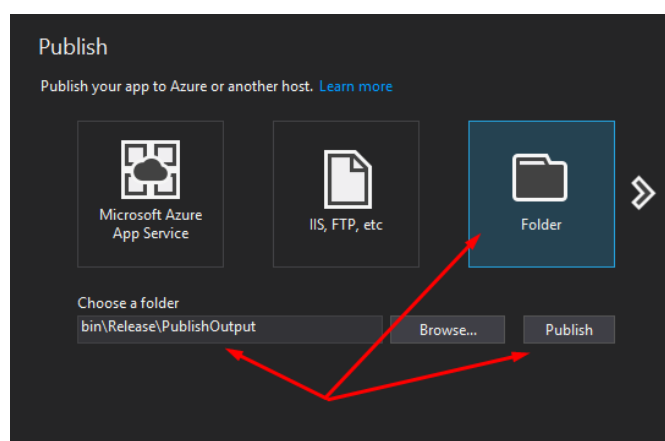


c) Press CTRL+SHIFT+B to build and restore packages

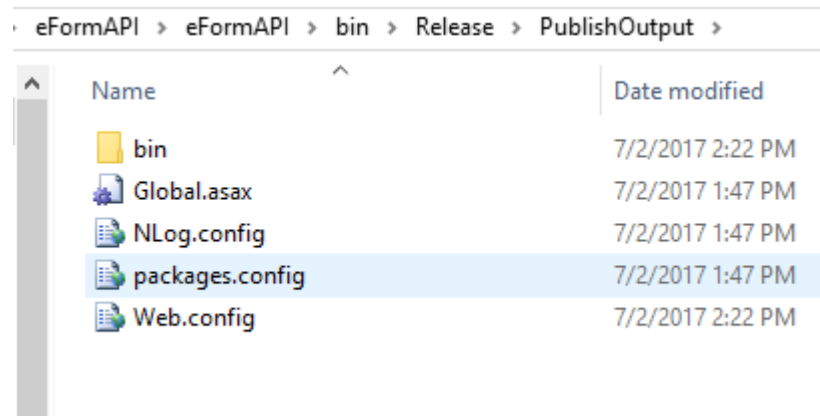
d) Click publish for **.Web** project



e) Select path and click publish

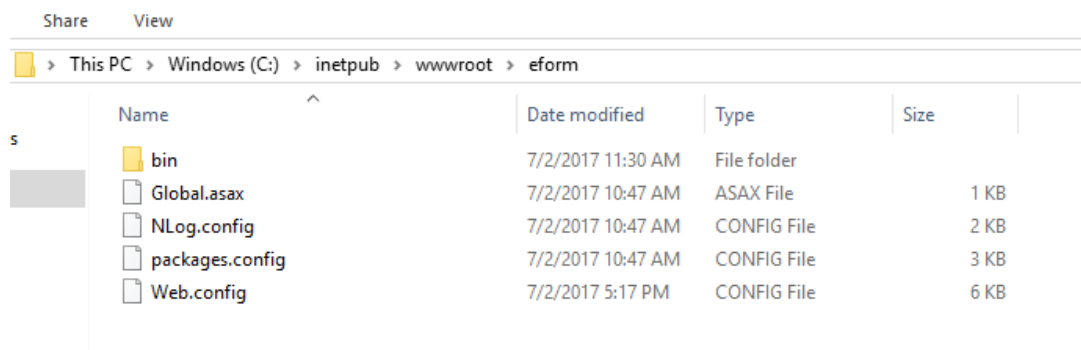


f) Now you have compiled **API** application

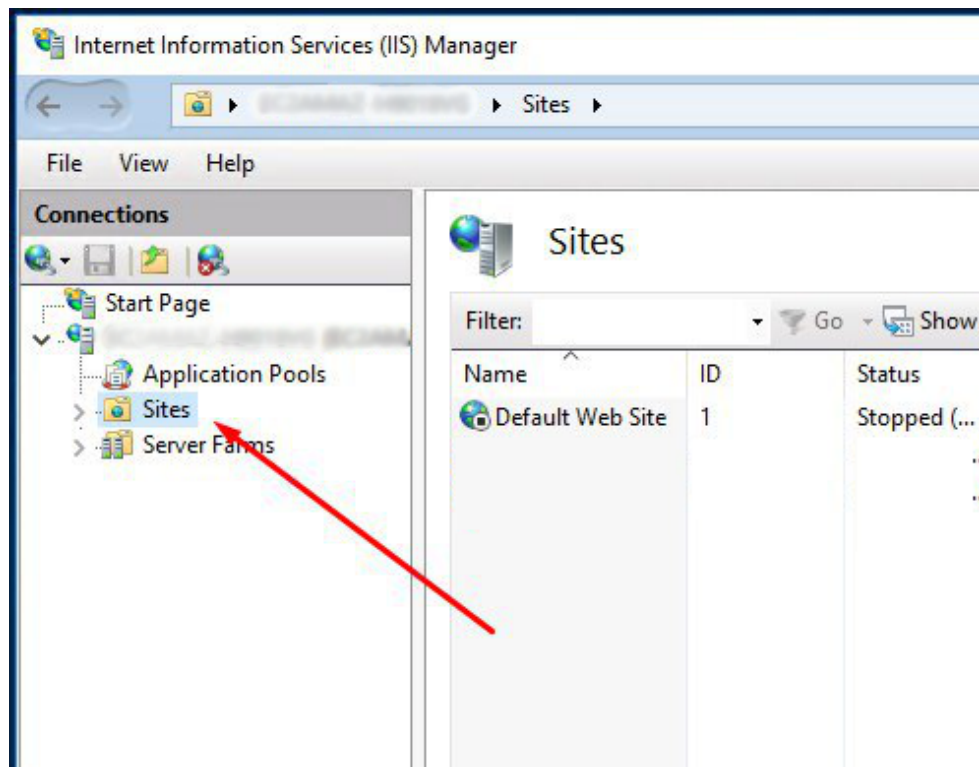


5. Publish Web API application

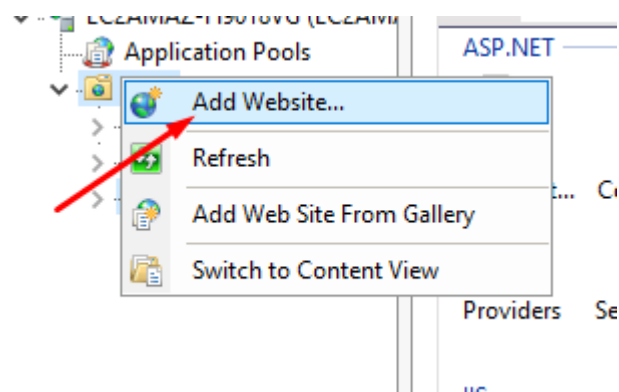
- a) Install Internet Information Services if not already installed.
 - a. Press the Windows Key and type Windows Features, select the first entry Turn Windows Features On or Off.
 - b. Check “Internet Information Services” and click OK
- b) Copy compiled files to folder in server



- c) Open Internet Information Services (IIS) Manager



d) Click Add Website



e) Fill all required settings

The screenshot shows the 'Add Website' dialog box with the following configuration:

- Site name:** eFormAPI
- Application pool:** eFormAPI
- Content Directory:**
 - Physical path:** C:\inetpub\wwwroot\eform
- Binding:**
 - Type:** http
 - IP address:** All Unassigned
 - Port:** 5000
- Host name:** (empty field)
- Example:** www.contoso.com or marketing.contoso.com
- ☒ Start Website immediately

6. Run Angular application

6.1. Running Angular as a console application

- Go to the angular folder and run **cmd**
- If you did not build application before call **npm install** and then **npm run build**
- Call **npm run server**

```
npm
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\Administrator\Desktop\eform-angular-frontend-master\eform-client>npm run server

> eform-angular@1.0.1 server C:\Users\Administrator\Desktop\eform-angular-frontend-master\eform-client
> node server.js

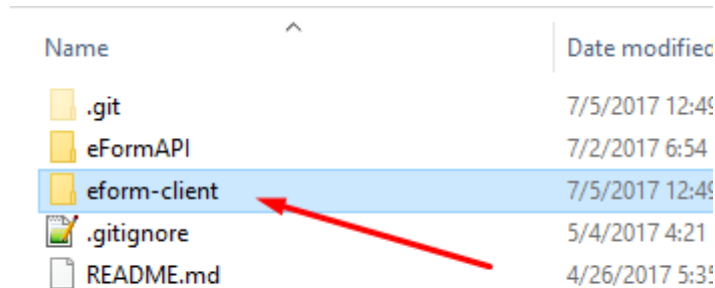
Application started on port: 3000
```

- Now application is working, don't close command prompt when app is working (if you want to stop it – press **Ctrl+C 2 times**).

6.2. Running angular as a Windows Service

If you want to use windows service instead running node.js server from cmd you need to install node-windows package.

a) Go to the angular folder and type **cmd**



b) Install node-windows with npm, using the global flag

npm install -g node-windows

c) Then, in your angular folder, run **npm link node-windows**

d) If you want to install & start service, call **npm run winserver-install**

```
> node svc.js install

Service will be installed
Installation complete.
The service exists: true
```

e) Now your application has been started as windows service

Unwppushsvc	Windows Push Message Routing Service	Disabled	Local System
DNS Client	The DNS Client service (dnscache) caches...	Running	Automatic (T... Network S...
Downloaded Maps Manager	Windows service for application access to...	Automatic (D...	Network S...
eForm angular	eForm angular frontend application	Running	Automatic Local Syste...
Embedded Mode	The Embedded Mode service enables sce...	Manual (Trig...	Local Syste...
Encrypting File System (EFS)	Provides the core file encryption technol...	Manual (Trig...	Local Syste...
Enterprise App Managemen...	Enables enterprise application managem...	Manual	Local Syste...

f) If you want to stop & uninstall, call **npm run winserver-uninstall**

```
> node svc.js uninstall

Service will be uninstalled
Uninstall complete.
The service exists: false
```

7. Binding host name to website

a) Click Add Website and fill all fields

The 'Add Website' dialog box is shown. The 'Site name' field is highlighted with a red box and contains 'MyWebSite'. The 'Application pool' dropdown is set to 'MyWebSite'. The 'Physical path' is 'C:\inetpub\wwwroot\MyWebSite'. The 'Binding' section shows 'Type' as 'http', 'IP address' as 'All Unassigned', and 'Port' as '80'. The 'Host name' field is highlighted with a red box and contains 'mydomain.com'. The 'Start Website immediately' checkbox is checked.

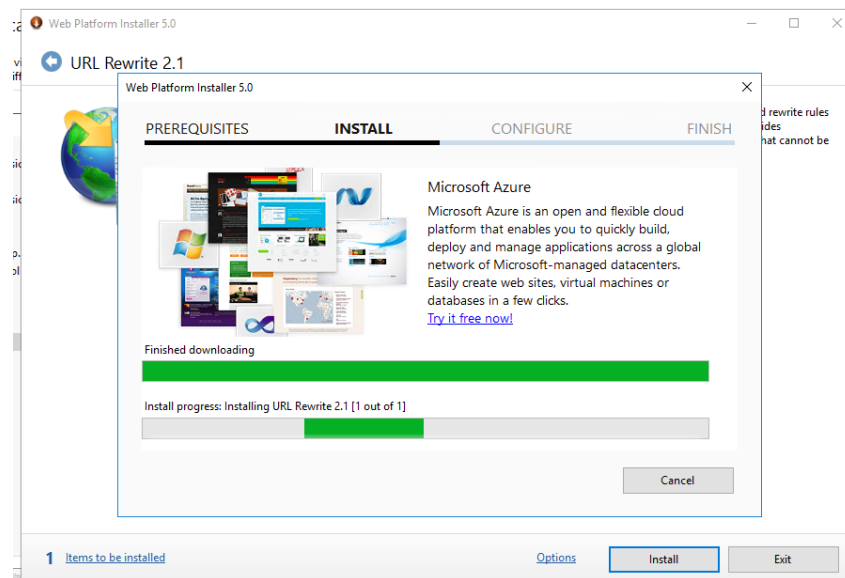
b) Change application pool

The 'Edit Application Pool' dialog box is shown. The 'Name' field contains 'MyWebSite'. The '.NET CLR version' dropdown is highlighted with a red box and set to 'No Managed Code'. The 'Managed pipeline mode' is 'Integrated'. The 'Start application pool immediately' checkbox is checked.

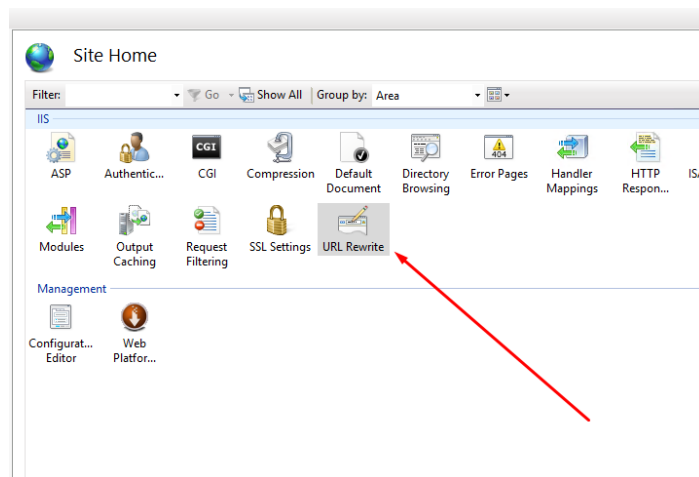
c) Install **URL Rewrite** extension <https://www.iis.net/downloads/microsoft/url-rewrite>

d) Install **APP Request Routing** extension

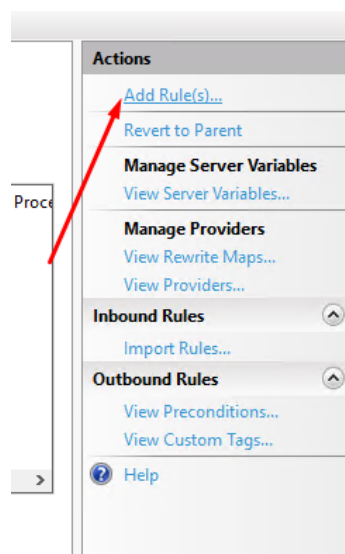
<https://www.iis.net/downloads/microsoft/application-request-routing>



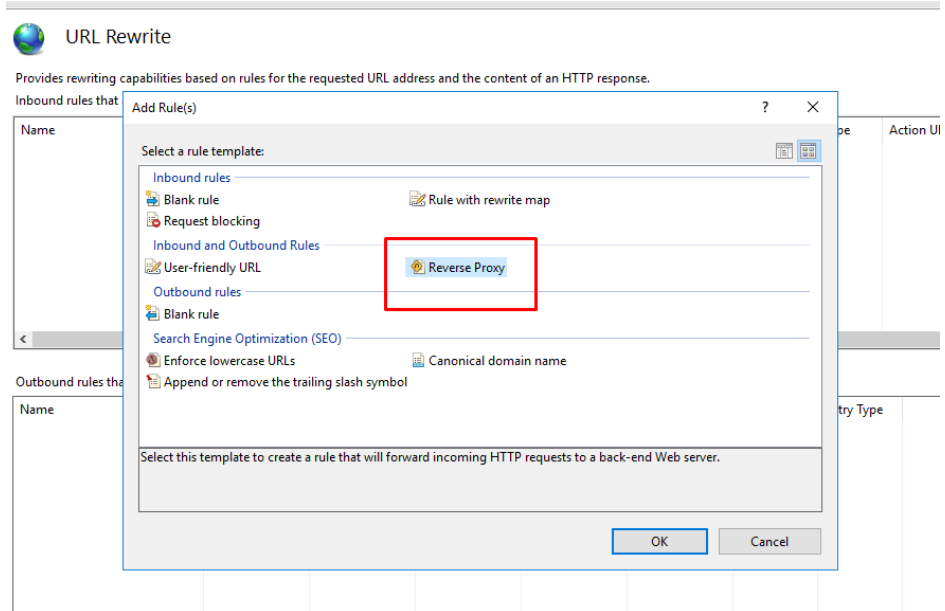
e) Select URL Rewrite in your website section



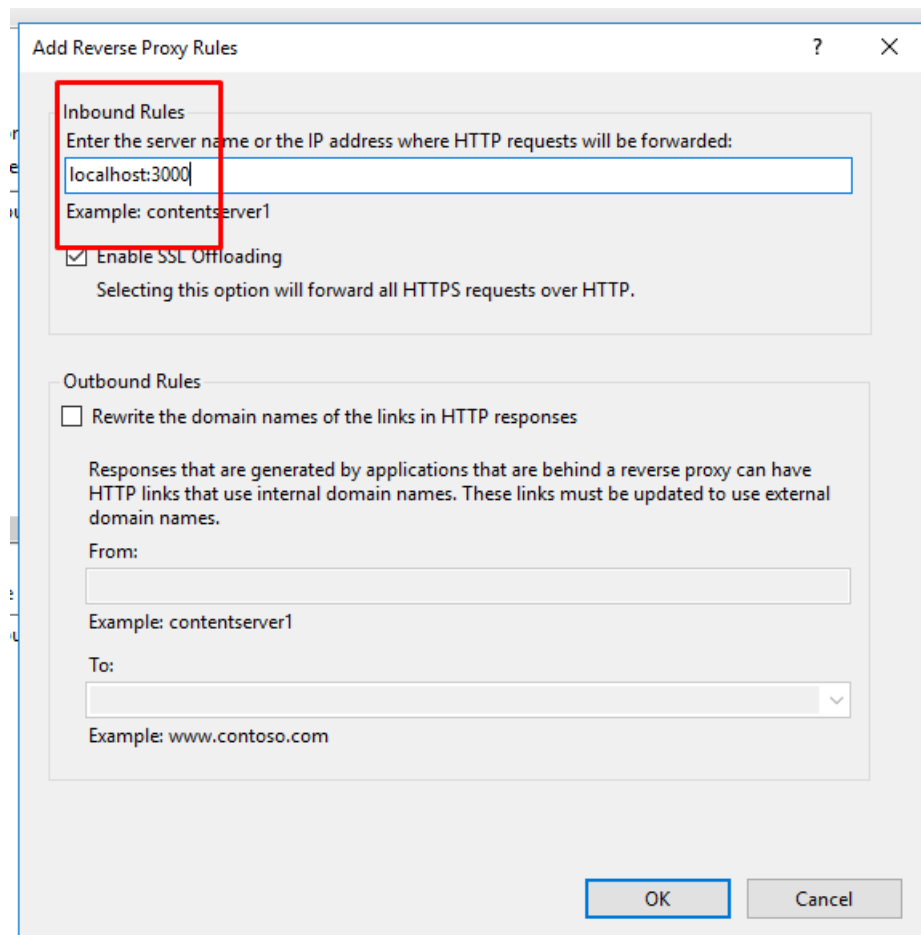
f) Add new Rule



g) Check Reverse Proxy



h) And add to rules **localhost:3000** (same as our angular app use)



i) Then go to website

Database connection information missing!

Connection information to database	
Data Source	<input type="text" value="COMPUTER_NAME\SQLEXPRESS"/>
Initial Catalog	<input type="text" value="DATABASE_NAME"/>
Authentication type	<input type="text" value="Integrated Security=True"/>
Token	<input type="text" value="12345678909876543210adfecdfefdae"/>