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ZNODE AWS INSTALLATION GUIDE

October 2015

Znode Multifront Installation on AWS

Prerequisites

- Open <http://aws.amazon.com>, and then click Sign Up.
- Follow the on-screen instructions given in the below document.

<http://docs.aws.amazon.com/gettingstarted/latest/wah/getting-started-prereq.html>

Required software:

1. SQL Server 2008 R2
2. .Net Framework 4.5
3. IIS 7.5
4. Microsoft report viewer 2010

Note: To install the IIS and .Net framework please refer Step 4 in the below document.

<http://docs.aws.amazon.com/gettingstarted/latest/wah/getting-started-deploy-app.html>

Installation Steps:

1. Download the Installer from Znode.com
2. Run the Installer
3. Create the Database from the Znode_Multifront_Database.sql script.
4. Update the Znode Multifront Domain Name in the ZnodeDomain table
5. Update Znode.Engine.Admin and Znode.Engine.Api Web.config
6. Update Znode.Engine.MvcDemo Web.config
7. Update Znode Background Service Config and install.
8. Build the projects
9. IIS Setup

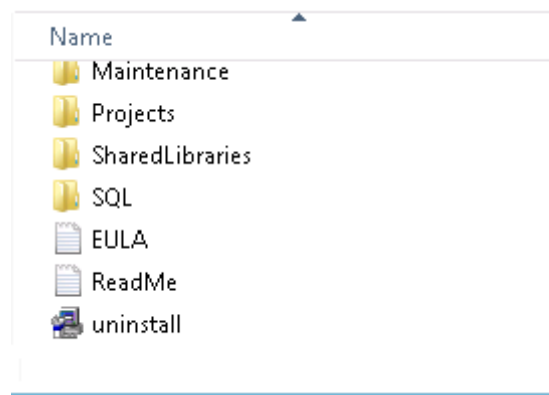
1. Download the Installer from Znode.com

2. Run ZNode Multifront Installer

1. Download the installer file and double click.

NOTE: Be sure to select a desired location for Znode, it is recommended that you **do not** put Znode in the Program Files folder. We will reference this directory as **\$InstallationDirectory** throughout this document.

2. Follow the prompts.



Projects Folder contains all projects and libraries associated with the Multifront Solution:
Znode.Engine.Admin – Project associated with running the Merchant Admin Dashboard
Znode.Engine.MvcDemo –Project associated with running the Front End U/I of the demo site.
Znode.Engine.API – Project associated with running the Znode API

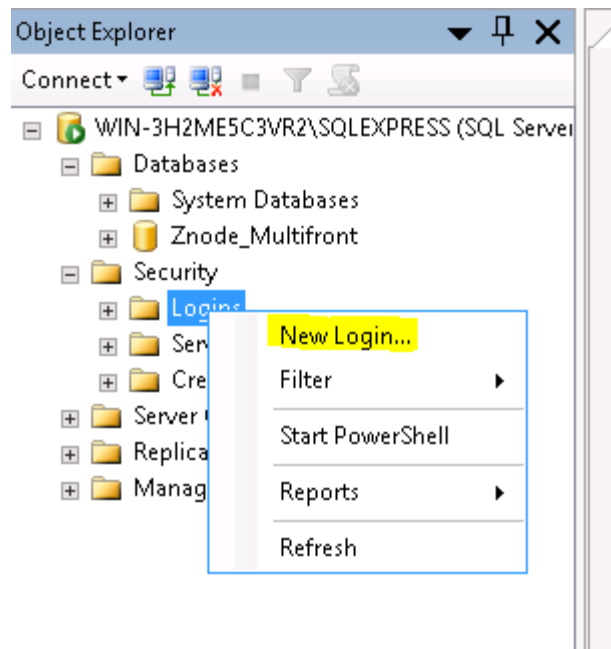
SQL contains the script for creation of the Znode Multifront database.

3. Database Setup

In order to render the Znode Multifront site, the Znode Multifront database must be created.

You can find the database creation script under the `$InstallationDirectory\SQL` folder.

1. Open Microsoft SQL Server Management Studio. (IMPORTANT: Always run SQL Server as admin)
2. Run the `znode_multifront_database.sql` script (found in the SQL folder). This will create a new database called **znode_multifront**. You can change the name of the database prior to running the script, but you will need to update the remaining config files manually.
3. Create a SQL Login. Default web.config settings will use `userid = znodeuser` with `password = p@ssw0rd` in their connection string. (Note that you can create a different SQL login or use windows authentication --- in those cases you need to update the web.config appropriately).
4. Open Security folder and Right click the Logins folder and select New Login. This is optional you can also use existing `znodeuser` dbo user.



5. Enter Login name in the Login name field.
6. Select the SQL Server Authentication radio button.

7. Enter the password associated with your SQL username in the Password field and enter it again in the Confirm Password field.
8. Click OK. Important: Assign DBO permissions to the login for the database for both schema and roles.

Login Properties - znodeuser

Select a page: General, Server Roles, User Mapping, Securables, Status

Script Help

Login name: znodeuser Search...

☐ Windows authentication

☒ SQL Server authentication

Password:

Confirm password:

☐ Specify old password

Old password:

☒ Enforce password policy

☒ Enforce password expiration

☐ User must change password at next login

☐ Mapped to certificate

☐ Mapped to asymmetric key

☐ Map to Credential

Mapped Credentials

Credential	Provider
------------	----------

Add Remove

Default database: master

Default language: English

OK Cancel

Connection

Server: WIN-3H2ME5C3VR2\SQLEXPRESS

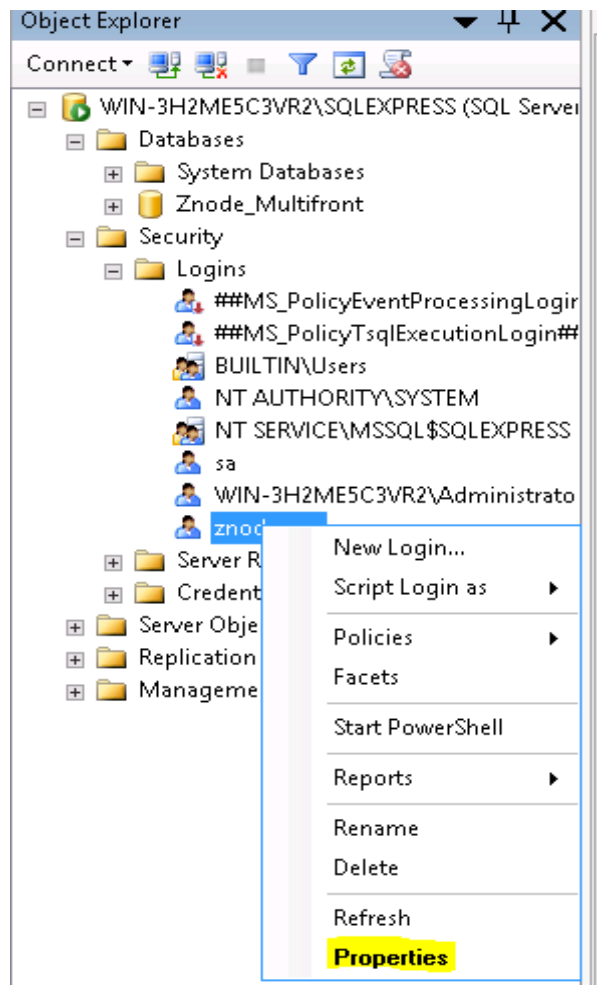
Connection: WIN-3H2ME5C3VR2\Administratc

[View connection properties](#)

Progress

Ready

9. Right---click your new znodeuser login ID and select Properties.



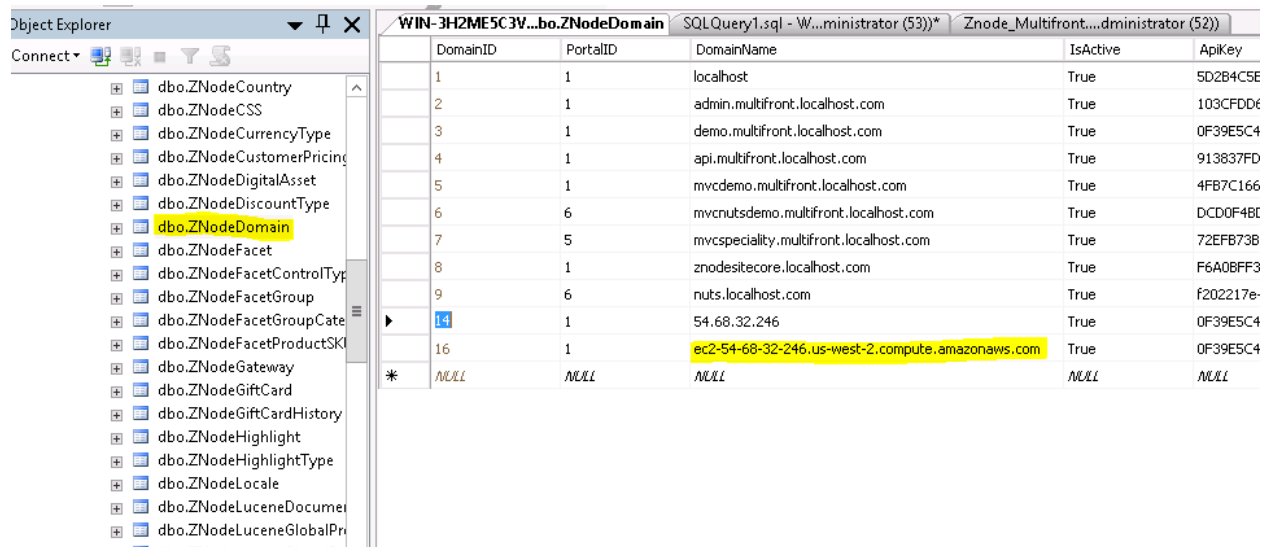
10. Select User Mapping in the upper left, and then select the znode_multifront database.
11. Scroll to and check the db owner role membership in the lower---right panel.
12. Confirm Public is already checked (it should be check by default). If it's not, check the box now.
13. Click OK.

4. Update Domain Settings

In order to render the Znode/Multifront site, the Domain Name associated to your Multifront instance needs to be added to the Znode Domain table. (This is the Domain name of your website) This will be required for all stores. Only follow these steps if your website name is different from default websites.

To update Domain name in the Domain table:

1. Open SQL Server.
2. Go to the ZnodeDomain table in znode_multifront database
3. Add New domain name For Example: ec2-54-68-32-246.us-west-2.compute.amazonaws.com



DomainID	PortalID	DomainName	IsActive	ApiKey
1	1	localhost	True	5D2B4C5E
2	1	admin.multifront.localhost.com	True	103CFDD6
3	1	demo.multifront.localhost.com	True	0F39E5C4
4	1	api.multifront.localhost.com	True	913837FD
5	1	mvcdemo.multifront.localhost.com	True	4FB7C166
6	6	mvcnutsdemo.multifront.localhost.com	True	DCD0F4BC
7	5	mvcspecialty.multifront.localhost.com	True	72EFB73B
8	1	znodesitecore.localhost.com	True	F6A0BFF3
9	6	nuts.localhost.com	True	F202217e
15	1	54.68.32.246	True	0F39E5C4
16	1	ec2-54-68-32-246.us-west-2.compute.amazonaws.com	True	0F39E5C4
*	NULL	NULL	NULL	NULL

5. Update Admin and API Web.configs

Update connection string and Lucene Index file location in below projects web.config files

1. Znode.Engine.Admin - path is \Projects\Znode.Engine.Admin\Web.config
2. Znode.Engine.API – path is \Projects\Znode.Engine.Api\Web.config
3. Znode.Engine.Demo – path is \Projects\Znode.Engine.Demo\Web.config Example of

connection string is given below

```
<connectionStrings>
<add name="ZNodeECommerceDB" connectionString="Data Source=localhost;Initial
Catalog=znode_multifront;user id=YourUserId;password=YourPassword " />
</connectionStrings>
```


Default Lucene Index file location and LuceneIndexReaderKey is given below. Below entry needs to match in all configs

```
<add key="LuceneIndexLocation" value="C:\LuceneData" /> <add
key="LuceneIndexReaderKey" value="Ajgsfdj342343kdksjsjncmflfl" />
```

6. Update MVCDemo Web.configs

1. Update following in appSettings section of Znode.Engine.MVCDemo/web.config

```
<add key="ZnodeApiRootUri" value="http://api.multifront.localhost.com" />
<add key="ZnodeApiUriItemSeparator" value="," />
<add key="ZnodeApiUriKeyValueSeparator" value="~" />
<!-- Store Domain and Key : key=DomainName and Value=ApiKey -->
<add key="mvcdemo.multifront.localhost.com" value="4FB7C166-AF0F-43A2-
A02AEFB14D5ADAFF"
/>
<add key="mvcnutsdemo.multifront.localhost" value="DCD0F4BD-1E83-455B-A845-
4632C3EE27C8" />
<add key="store.multifront.localhost.com" value="a940eed6-5fd8-4970-
9ecefdf029e4ab8"
/>
```

Note: api.multifront.localhost.com is the default domain name of Znode API. Make sure it matches API domain name and API Key that has been configured in the ZNodeDomain database table.

7. Znode Background Service Installation

This is a Windows service that must be installed and running in order for the Lucene search index to be updated and maintained. The name of the executable is Znode.BackgroundService.exe and shows up in Service Manager as “Znode Background Service”. Each web server will have its own copy installed and running.

1. Open command prompt. (Start->Run->cmd)
2. Enter the following command to build Znode.Engine.Task

```
C:\Windows\Microsoft.NET\Framework\v4.0.30319\msbuild
"$InstallationDirectory%\Projects\Znode.Engine.tasks\Znode.Engine.tasks.csproj"
```

3. Create a directory e.g. (C:\BackgroundService) where the BackgroundService files will be deployed.

4. Copy all files from \$InstallationDirectory\Projects\Znode.Engine.Task\bin\Debug to C:\BackgroundService

5. Copy all files from `$InstallationDirectory\SharedLibraries\BackgroundService` to `C:\BackgroundService` **NOTE:** Installing the Background service from different locations will allow you to rebuild the project in the future without running into errors with the background service dll(s) being in use.

6. Open `Znode.Background.Service.exe` config in a text editor with the below sections updated:

```
<Znode.Engine.Tasks.Lucene>
<LogFolder value="C:\BackgroundService\Logs" />
<TransactionLogFile value="C:\BackgroundService\Logs\_transaction.log" />
<LuceneIndexLocation value="C:\LuceneData" />
<LuceneIndexInterval value="30" />
<LuceneIndexReaderKey value="913837FD-36F5-4B88-85A7-651E9976A775" />
<LuceneIndexReaderUrl
value="http://api.multifront.localhost.com/search/reloadindex" />
<OnStartWaitTime value="10" />
<ServerName value="SERVER_NAME" />
</Znode.Engine.Tasks.Lucene>
```

a. `LogFolder` ---> Location of log file

b. `TransactionLogFile` ---> Location of Transaction logs

c. `LuceneIndexLocation` ---> Location of Lucene Index file

NOTE :--- Make sure this location is same which has been provided in other `web.config` files (section 5).

d. `LuceneIndexReaderUrl` --->

- WebForms (<http://demo.multifront.localhost.com/UpdateLuceneReader.aspx>)
- MVC (<http://api.multifront.localhost.com/search/reloadindex>)

e. `ServerName` ---> This is the name of the server where the Lucene background task is running

7. Update App Setting Section

```
<appSettings>
<add key="EnableWhatDoIHave" value="false" />
<add key="EnableDebugLog" value="true" />
<add key="DebugLogFile"
value="C:\BackgroundService\Logs\_debug.log" />
<add key="LuceneIndexLocation" value="C:\LuceneData" />
</appSettings>
```

Provide Same `LuceneIndexLocation`.

8. Update Connection string

```
<connectionStrings>
    <add name="ZNodeECommerceDB" connectionString="Data
Source=localhost\\sqlexpress;Initial Catalog=Znode_Multifront;user
id=znodeuser;password=p@ssw0rd" />
</connectionStrings>
```

9. Znode.Background.Service.Install.bat is a file that will install the service and reference the location of the Znode.Background.Service.exe. Verify binPath is pointing to Znode.Background.Service.exe

- e.g. (binPath= "C:\BackgroundService\Znode.BackgroundService.exe")

10. To run the batch script, right---click on the Znode.BackgroundService.Install.bat file and select Run as administrator.

8. Build Applications

To compile/build application:

Please update the **highlighted** path with your installer location

1. Open command prompt. (Start->Run->cmd)
2. Enter the following command to build Znode.Engine.Admin

```
C:\Windows\Microsoft.NET\Framework\v4.0.30319\msbuild "C:\Installer\Znode Multifront
Enterprise\Projects\Znode.Engine.Admin\Znode.Engine.Admin.csproj"
```

NOTE: If you face the following error while building the project
"v11.0\WebApplications\Microsoft.WebApplication.targets was not found"

Then you can resolve the issue by Copying the following folder from your dev machine to your build server

```
C:\Program Files (x86)\MSBuild\Microsoft\VisualStudio\v11.0\WebApplications
```

3. After successful build, enter the following command to build Znode.Engine.MvcDemo

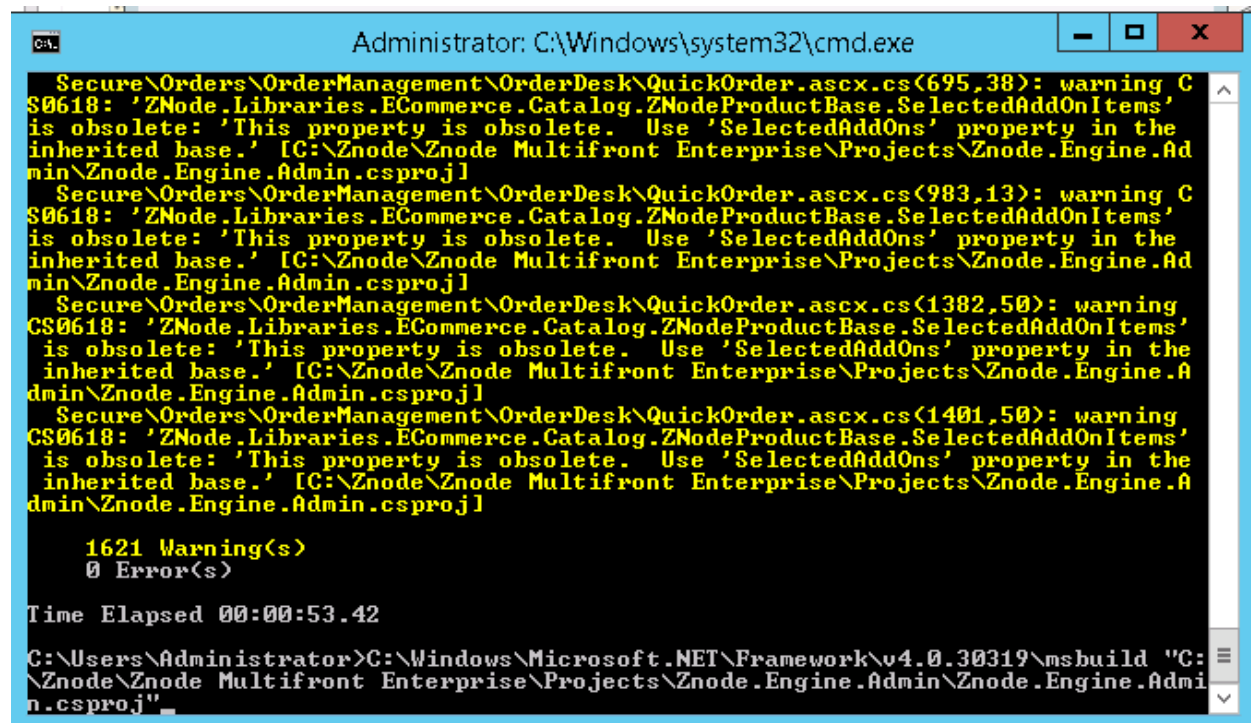
```
C:\Windows\Microsoft.NET\Framework\v4.0.30319\msbuild "C:\Installer\Znode Multifront
Enterprise\Projects\Znode.Engine.MvcDemo\Znode.Engine.Mvcdemo.csproj"
```

4. After successful build, enter the following command to build Znode.Engine.Api

`C:\Windows\Microsoft.NET\Framework\v4.0.30319\msbuild "C:\Installer\Znode Multifront Enterprise\Projects\Znode.Engine.Api\Znode.Engine.Api.csproj"`

5. After successful build, enter the following command to build Znode.Engine. Demo

`C:\Windows\Microsoft.NET\Framework\v4.0.30319\msbuild "C:\Installer\Znode Multifront Enterprise\Projects\Znode.Engine.Demo\Znode.Engine.Demo.csproj"`



```
Administrator: C:\Windows\system32\cmd.exe

Secure\Orders\OrderManagement\OrderDesk\QuickOrder.ascx.cs(695,38): warning CS0618: 'ZNode.Libraries.ECommerce.Catalog.ZNodeProductBase.SelectedAddOnItems' is obsolete: 'This property is obsolete. Use 'SelectedAddOns' property in the inherited base.' [C:\Znode\Znode Multifront Enterprise\Projects\Znode.Engine.Admin\Znode.Engine.Admin.csproj]
Secure\Orders\OrderManagement\OrderDesk\QuickOrder.ascx.cs(983,13): warning CS0618: 'ZNode.Libraries.ECommerce.Catalog.ZNodeProductBase.SelectedAddOnItems' is obsolete: 'This property is obsolete. Use 'SelectedAddOns' property in the inherited base.' [C:\Znode\Znode Multifront Enterprise\Projects\Znode.Engine.Admin\Znode.Engine.Admin.csproj]
Secure\Orders\OrderManagement\OrderDesk\QuickOrder.ascx.cs(1382,50): warning CS0618: 'ZNode.Libraries.ECommerce.Catalog.ZNodeProductBase.SelectedAddOnItems' is obsolete: 'This property is obsolete. Use 'SelectedAddOns' property in the inherited base.' [C:\Znode\Znode Multifront Enterprise\Projects\Znode.Engine.Admin\Znode.Engine.Admin.csproj]
Secure\Orders\OrderManagement\OrderDesk\QuickOrder.ascx.cs(1401,50): warning CS0618: 'ZNode.Libraries.ECommerce.Catalog.ZNodeProductBase.SelectedAddOnItems' is obsolete: 'This property is obsolete. Use 'SelectedAddOns' property in the inherited base.' [C:\Znode\Znode Multifront Enterprise\Projects\Znode.Engine.Admin\Znode.Engine.Admin.csproj]

1621 Warning(s)
0 Error(s)

Time Elapsed 00:00:53.42

C:\Users\Administrator>C:\Windows\Microsoft.NET\Framework\v4.0.30319\msbuild "C:\Znode\Znode Multifront Enterprise\Projects\Znode.Engine.Admin\Znode.Engine.Admin.csproj"
```

9. IIS Setup

To begin the configuration of Znode.Engine.Api :

1. Open IIS and select Sites.

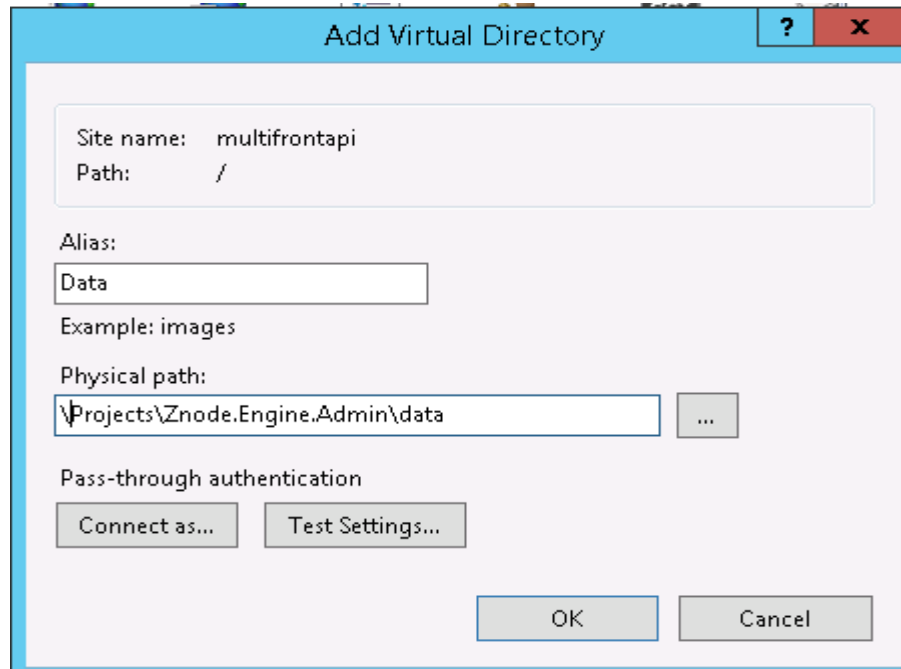
2. Right click and click Add Web Site and enter the Sitename, select the physical path as (\Projects\Znode.Engine.Api) and enter the host name as follows:

Note: Make sure Host name is the same as Domain name for the API given in ZnodeDomain Table and provided in MvcDemo web.config file

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

- Site name:** ZnodeAPI
- Application pool:** ZnodeAPI
- Content Directory:**
 - Physical path:** Znode Multifront Enterprise\Znode.Engine.api
 - Pass-through authentication:** (unchecked)
 - Buttons:** Connect as..., Test Settings...
- Binding:**
 - Type:** http
 - IP address:** All Unassigned
 - Port:** 84
 - Host name:** ec2-54-68-32-246.us-west-2.compute.amazonaws.com
 - Example:** www.contoso.com or marketing.contoso.com
- Start Website immediately:** ☒
- Buttons:** OK, Cancel

3. Click Ok, A new website is created in IIS. To give the permissions, select the site, right click and select Edit
4. Give Permissions for NETWORK SERVICE and IIS_USR.
5. Right click on API Website and Add Virtual Directory and point that virtual directory to Projects/Znode.Engine.Admin/data folder as shown in below screenshot.

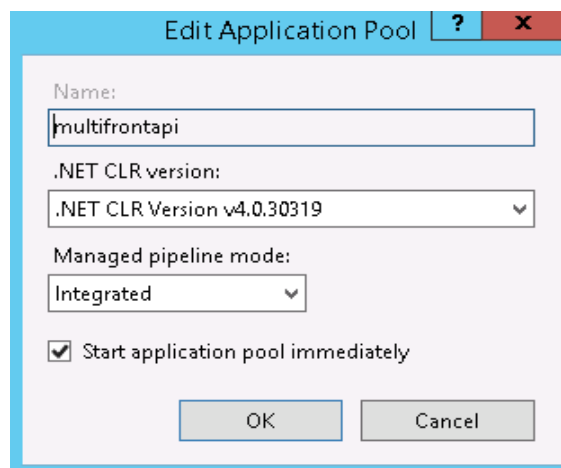


6. Make an entry in the host file for API configuration.

- Hosts file is located at (C:\Windows\System32\drivers\etc\hosts)
- Create an entry for the API URL
(i.e. 127.0.0.1 ec2-54-68-32-246.us-west-2.compute.amazonaws.com)

7. Update the .Net Version to ".Net CLR version v4.0.30319" in your App pool

Open IIS Server->Application Pool->Select your AppPool->Basic Settings



8. Restart IIS.

MVC Site, Web Form and Site admin Set up

Znode Multifront provides several projects to allow control in flexibility to how the solution will be deployed in IIS. As such, your deployment steps by include changes such as binding, websites, applications, and application pools. These steps are intended as a generic guideline for running the solution in IIS, either in production, staging, or development machine.

Each project must be built or published before deploying.

Follow same steps for all websites

1. Open IIS Manager (inetmgr.exe)
2. Right Click "Sites"
 - a) "Add Website" a. Site name: Name of the website that will be displayed in IIS.
 - b) Physical Path: Will be one of the following for 3 different sites
 - (1) Znode.Engine.Admin
 - (2) Znode.Engine.MvcDemo
 - (3) Znode.Engine.Demo
 - c) Host name: Will be the domains being used for stores. These should match up with domains in the Znode Domain table of the Znode Multifront database.
 - d) Physical path should point to the appropriate solution i. MVC Websites = Znode.Engine.MvcDemo ii. Admin Dashboard = Znode.Engine.Admin iii. Web Form Website = Znode.Engine.Demo.

Verify the Deployment of Multifront


After creating the database and updating the corresponding web.config files, set each of the following as Startup Projects and debug to confirm the website will load:


- Znode.Engine.Admin
- Znode.Engine.MvcDemo
- Znode.Engine.API

Note: Default username/password for Site Admin is admin/admin

MULTIFRONT®


Merchant Login
Log in to setup and manage your store.

 Username

 Password

LOGIN

☐ Remember Me [Forgot your password?](#)

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API Overview

The Znode API is organized around REST and is designed to have predictable, resource-oriented URLs and to use HTTP response codes to indicate API errors. The API uses built-in HTTP features — such as headers, methods, and status codes — which can be understood by any off-the-shelf HTTP client. The Znode API only supports requests and responses in JSON format.

Authentication

The Znode API supports authentication by looking for the following values in the request header:

- **Znode-DomainName:** This is the domain for the store whose data will be retrieved during the request.
- **Znode-DomainKey:** This is the API key for the domain, as found in the ZNodeDomain table in the Multifront database.

Having these two values in the header also sets the context for the request. Meaning, if you set the Znode-DomainName header value as "www.mysite1.com", then all data retrieved during the request will be for the store related to that domain.

All requests to the Znode API require that **both** header values exist in the request; if either one doesn't exist, the request will fail. Also, if the Znode-DomainKey value doesn't match the one associated with the Znode-DomainName, the request will fail. If either of these two scenarios cause the request to fail, the response will immediately return with the following information:

- **HTTP status code:** 403 Forbidden
- **HTTP status description:** Domain name and key are either incorrect or missing from the request header.

Disabling Authentication

Authentication can be disabled by setting **ValidateDomainHeaders** to false in the <appSettings> section of the API's web.config file. However, in most cases, this value should be set to true in production environments.


```
<add key="ValidateDomainHeaders" value="true" />
```


During Development

When developing a client that uses the Znode API, it will be useful at times to open endpoints in a browser in order to see data. To ensure this is possible, you need to add an entry in the ZNodeDomain table for the domain of the API itself. In this case, simply disabling authentication will have no affect.

For example, if you have the API deployed locally at "api.localhost.com", you should add an entry in the ZNodeDomain table where the DomainName field is "api.localhost.com" with the relevant portal ID. This will be the context for retrieving data when viewing endpoints in a browser.

IMPORTANT: This should be for development purposes only.



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Merlot
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£12.49(GBP)
[Quick View](#) [Add To Cart](#)








Fresh-Cut Roses
★★★★★ (0) Read Reviews
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Whole Salted Cashews
★★★★★ (1) Read Reviews
£3.79(GBP)
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CUSTOMER SUPPORT

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1-858-MY-STORE

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 znode®

Email Settings

1. Go to Setup->Stores
2. Click on Manage for the specific store.
3. Goto SMTP tab and click Edit
4. Enter the following settings in Edit SMTP settings. Your SMTP details will be found in Console->SES

Using SMTP to Send Email with Amazon SES

You can send email through Amazon SES by using a variety of SMTP-enabled programming languages and libraries. To send email using SMTP, you will need to know the following:

Server Name:	email-smtp.us-west-2.amazonaws.com
Port:	25, 465 or 587
Use Transport Layer Security (TLS):	Yes
Authentication:	Your SMTP credentials - see below.

To send email through Amazon SES using SMTP, you must create SMTP credentials. SMTP credentials are used to authenticate against the Amazon SES SMTP endpoint. You can use the same set of SMTP credentials for all regions in which Amazon SES is enabled.

To obtain your SMTP credentials, click the button below. For more information about SMTP credentials, click [here](#).

[Create My SMTP Credentials](#)

Note: Your SMTP user name and password are not the same as your AWS access key ID and secret access key. They are used to authenticate against the SMTP endpoint. For more information about credential types, [click here](#).

Edit SMTP Settings for - Fine Foods

SMTP Settings	
SMTP Port	<input type="text"/>
SMTP Server	<input type="text"/>
SMTP Server User Name	<input type="text"/>
SMTP Server Password	<input type="password"/>
Enable SSL for SMTP	<input type="checkbox"/>
<div> SUBMIT CANCEL </div>	

5. Please make sure you have verified the email id in Verified sender section of SES.

Add Port Numbers to your Website (For testing)

To add a port to the exceptions list

- 1) Open Windows Firewall.
- 2) Click the Exceptions tab, and then click Add Port.
- 3) In Name, type a name for the port exception. This name will appear in the exceptions list.
- 4) In Port number, type the number of the port that you want to add to the exceptions list.
- 5) Click either TCP or UDP, depending on the type of traffic, and then click OK.

Trouble Shooting

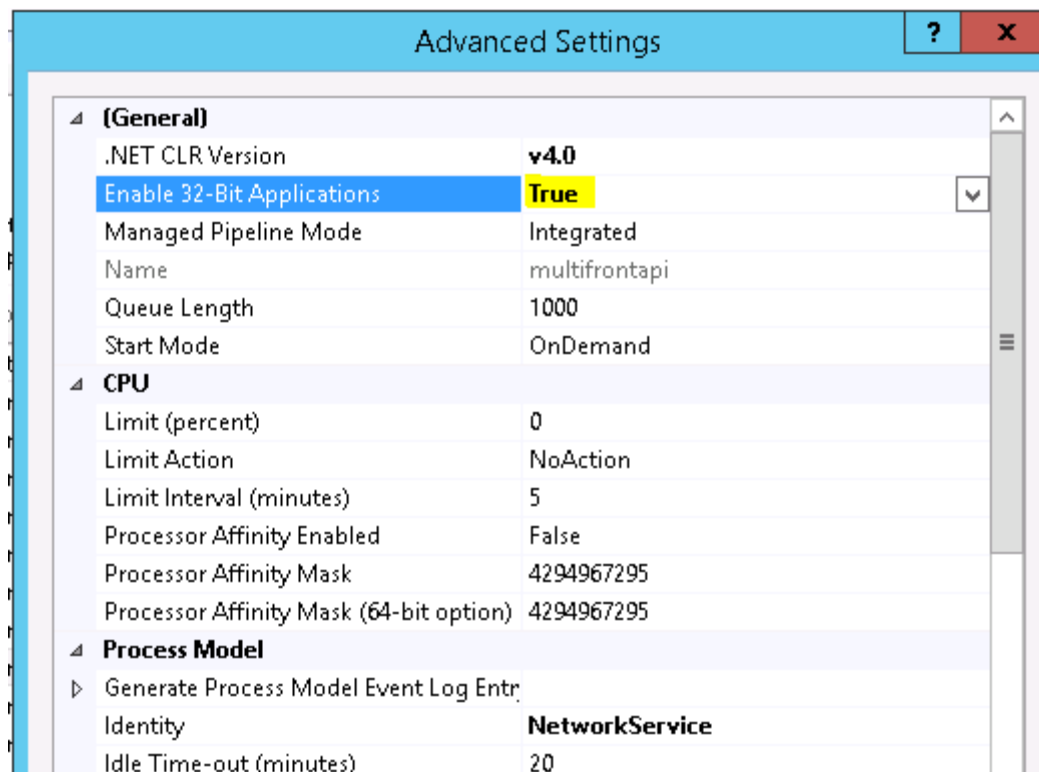
- If you are facing the below error or you are facing an issue in **Reports**

Could not load file or assembly 'Microsoft.SqlServer.Types, Version=11.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91' or one of its dependencies. The system cannot find the file specified.

then you can resolve the issue by Copying the following folder from your dev machine to your build server

`C:\Program Files (x86)\Common Files\Merge Modules`


- If you are facing issue in API runtime then update the following in your IIS AppPool



Allow apps to communicate through Windows Firewall

To add, change, or remove allowed apps and ports, click Change settings.

What are the risks of allowing an app to communicate?

 Change settings

Allowed apps and features:

Name	Private	Public	
<input type="checkbox"/> iSCSI Service	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Key Management Service	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Netlogon Service	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Network Discovery	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Performance Logs and Alerts	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Port 81-84	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Remote Desktop	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Remote Event Log Management	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Remote Event Monitor	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Remote Scheduled Tasks Management	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Remote Service Management	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Remote Shutdown	<input type="checkbox"/>	<input type="checkbox"/>	

Details...

Remove

Allow another app...