

Authentication and diffs -

Visual Studio 2015 bug: You must have the Authentication set to Individual User Accounts in this release for the scaffolding engine to work.

MVC Reference

1. Learn About ASP.NET MVC - patterns-based way to build dynamic websites that enables a clean separation of concerns and that gives you full control over HTML markup:
<http://www.asp.net/mvc/overview/getting-started>
2. **MvcMovie**: Getting started with ASP.NET Core MVC (5 renamed) and Visual Studio:
<https://docs.asp.net/en/latest/tutorials/first-mvc-app/start-mvc.html>
3. **Contoso University** - includes functionality such as student admission, course creation, and instructor assignments - Getting Started with Entity Framework 6 **Code First** using MVC 5:
<http://www.asp.net/mvc/overview/getting-started/getting-started-with-ef-using-mvc/creating-an-entity-framework-data-model-for-an-asp-net-mvc-application>
4. **Contoso ads** - an advertising bulletin board. Users create an ad by entering text and uploading an image. They can see a list of ads with thumbnail images, and they can see the full size image when they select an ad to see the details - Get started with Azure Cloud Services and ASP.NET -
<https://azure.microsoft.com/en-us/documentation/articles/cloud-services-dotnet-get-started/>
5. Getting Started with Entity Framework 6 **Database First** using MVC 5:
<http://www.asp.net/mvc/overview/getting-started/database-first-development/setting-up-database>
6. Create an ASP.NET MVC app with auth and SQL DB and deploy to Azure App Service - web app that lets users log in with credentials from Facebook or Google: <https://azure.microsoft.com/en-us/documentation/articles/web-sites-dotnet-deploy-aspnet-mvc-app-membership-oauth-sql-database/?cdn=disable>
7. Customizing Routes in ASP.NET MVC: <http://www.codeproject.com/Articles/641783/Customizing-Routes-in-ASP-NET-MVC>
8. Getting Started with SignalR 2 and MVC 5: <http://www.asp.net/signalr/overview/getting-started/tutorial-getting-started-with-signalr-and-mvc>
9. Real Time Web Solution for Chat by MVC SignalR Hub:
<http://www.codeproject.com/Articles/732190/Real-Time-Web-Solution-for-Chat-by-MVC-SignalR-H>
10. Implementing an HTML5 drag & drop based file upload in ASP.NET MVC 3:
<https://pieterderycke.wordpress.com/2012/05/21/implementing-an-html5-drag-drop-based-file-upload-in-asp-net-mvc-3/>
11. ASP.NET Multiple File Upload With Drag & Drop and Progress Bar Using HTML5:

Introduction to Identity/Authentication/Authorization/Credentials

Users can create an account and login with a user name and password or they can use an external login providers such as Facebook, Google, Microsoft Account, Twitter and more.

You can configure ASP.NET Core Identity to use a SQL Server database to store user names, passwords, and profile data. Alternatively, you can use your own persistent store to store data in another other persistent storage, such as Azure Table Storage.

1. Introduction to Identity: <https://docs.asp.net/en/latest/security/authentication/identity.html>

ASP.NET SignalR

ASP.NET SignalR is a new library for ASP.NET developers that makes it incredibly simple to add real-time web functionality to your applications. What is "real-time web" functionality? It's the ability to have your server-side code push content to the connected clients as it happens, in real-time.

You may have heard of WebSockets, a new HTML5 API that enables bi-directional communication between the browser and server. SignalR will use WebSockets under the covers when it's available, and gracefully fallback to other techniques and technologies when it isn't, while your application code stays the same.

SignalR also provides a very simple, high-level API for doing server to client RPC (call JavaScript functions in your clients' browsers from server-side .NET code) in your ASP.NET application, as well as adding useful hooks for connection management, e.g. connect/disconnect events, grouping connections, authorization.

While chat is often used as an example, you can do a whole lot more. Any time a user refreshes a web page to see new data, or the page implements Ajax long polling to retrieve new data, is candidate for using SignalR.

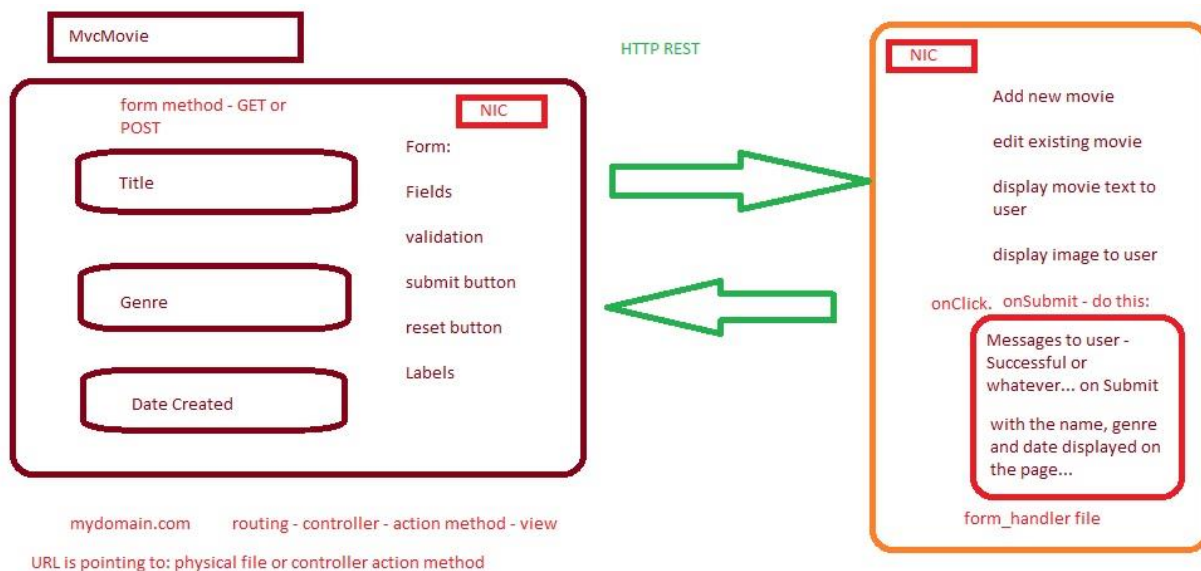
It also enables completely new types of applications, that require high frequency updates from the server, e.g. real-time gaming.

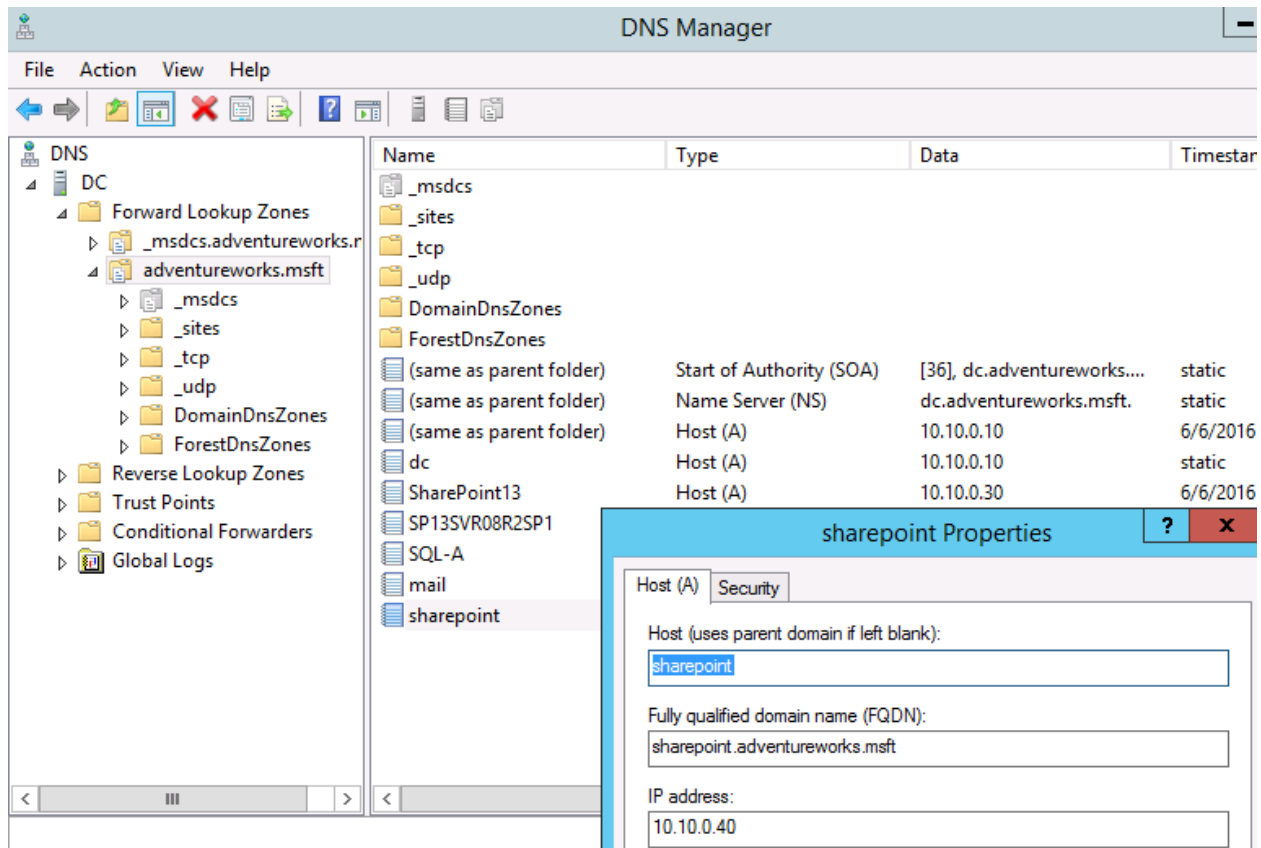
1. **What is ASP.NET SignalR:** <http://signalr.net/> : SignalR will use WebSockets under the covers when it's available, and gracefully fallback to other techniques and technologies when it isn't, while your application code stays the same.
2. Getting Started with SignalR 2 - (HTML): <http://www.asp.net/signalr/overview/getting-started/tutorial-getting-started-with-signalr>
3. Getting Started with SignalR 2 and MVC 5: <http://www.asp.net/signalr/overview/getting-started/tutorial-getting-started-with-signalr-and-mvc>
4. Real Time Web Solution for Chat by MVC SignalR Hub: <http://www.codeproject.com/Articles/732190/Real-Time-Web-Solution-for-Chat-by-MVC-SignalR-H>
5. Using SignalR with Web Apps in Azure App Service: <http://www.asp.net/signalr/overview/deployment/using-signalr-with-azure-web-sites>
6. Enabling WebSockets on Azure App Service Web Apps: <http://www.asp.net/signalr/overview/deployment/using-signalr-with-azure-web-sites#websocket>

- a. WebSockets needs to be explicitly enabled in your web app to be used in a SignalR application; otherwise, other protocols will be used (See Transports and Fallbacks for details).
- b. In order to use WebSockets on Azure App Service Web Apps, enable it in the configuration section of the web app. To do this, open your web app in the Azure Management Portal, and select Configure.
7. ShootR: <http://shootr.signalr.net/>
8. Microsoft.AspNet.SignalR.Server 3.0.0-beta5:
<https://www.nuget.org/packages/Microsoft.AspNet.SignalR.Server/>
 - a. install Microsoft.AspNet.SignalR.Server, run the following command in the Package Manager Console
 - b. PM>Install-Package Microsoft.AspNet.SignalR.Server -Pre
9. Tomorrows .Net Core: ... <https://damienbod.com/2015/09/23/asp-net-5-examples-and-links/>

Drag and Drop

1. Drag Drop Elements in ASP.NET MVC 5 using HTML 5, Web API and jQuery:
<http://www.dotnetcurry.com/aspnet-mvc/1039/drag-drop-html5-aspnet-mvc-jquery>
2. Drag And Drop Role Management with Asp.Net, MVC & jQuery:
<http://www.codeproject.com/Articles/774773/Drag-n-Drop-Role-Management-AspNet-MVC-jQuery>



DNS: The "A" record mapping IP address to Fully qualified domain name....

The screenshot displays the DNS Manager console. In the left pane, the hierarchy is: DNS > DC > Forward Lookup Zones > _msdcs.adventureworks.msft > adventureworks.msft. The right pane shows a list of DNS records. The 'sharepoint' record is selected, and its properties are shown in the 'sharepoint Properties' dialog box.

Name	Type	Data	Timestamp
_msdcs			
_sites			
_tcp			
_udp			
DomainDnsZones			
ForestDnsZones			
(same as parent folder)	Start of Authority (SOA)	[36], dc.adventureworks....	static
(same as parent folder)	Name Server (NS)	dc.adventureworks.msft.	static
(same as parent folder)	Host (A)	10.10.0.10	6/6/2016
dc	Host (A)	10.10.0.10	static
SharePoint13	Host (A)	10.10.0.30	6/6/2016
SP13SVR08R2SP1			
SQL-A			
mail			
sharepoint			

sharepoint Properties

Host (A) Security

Host (uses parent domain if left blank):
sharepoint

Fully qualified domain name (FQDN):
sharepoint.adventureworks.msft

IP address:
10.10.0.40