

# Identity & OWIN

Slavomír Moroz  
2015

# Authorization

- Authorization filter attributes
  - AuthorizeAttribute
  - AllowAnonymousAttribute

[https://msdn.microsoft.com/en-us/library/system.web.mvc.authorizeattribute\(v=vs.118\).aspx](https://msdn.microsoft.com/en-us/library/system.web.mvc.authorizeattribute(v=vs.118).aspx)

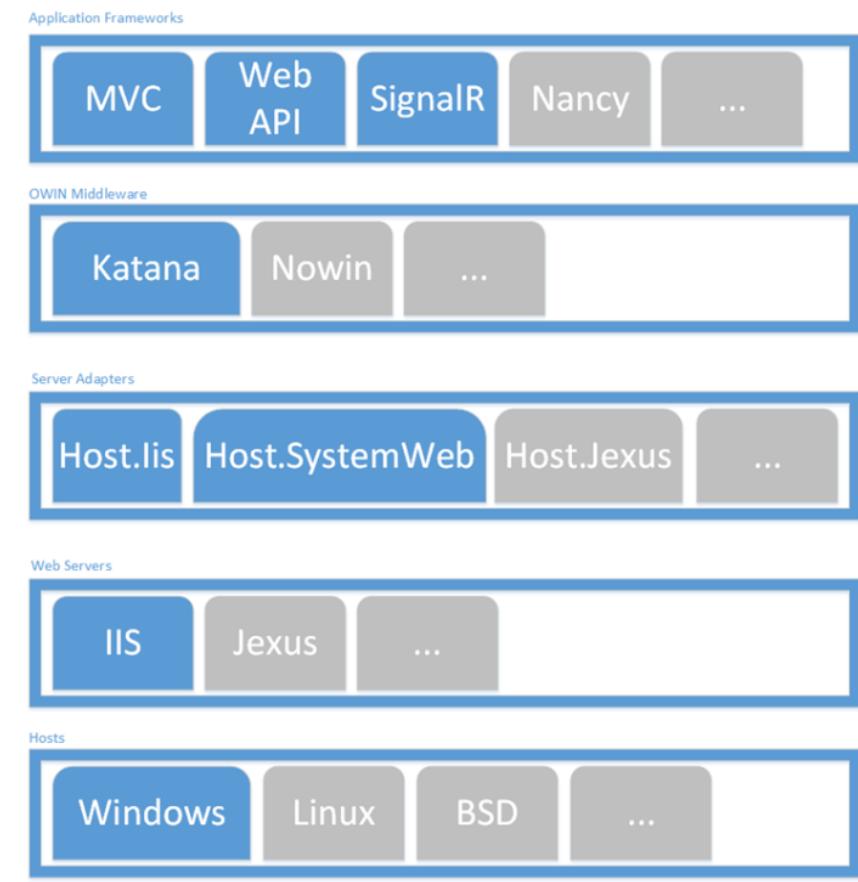
[https://msdn.microsoft.com/en-us/library/system.web.http.allowanonymousattribute\(v=vs.118\).aspx](https://msdn.microsoft.com/en-us/library/system.web.http.allowanonymousattribute(v=vs.118).aspx)

- You can also return unauthorized access from your action by returning `HttpUnauthorizedResult`

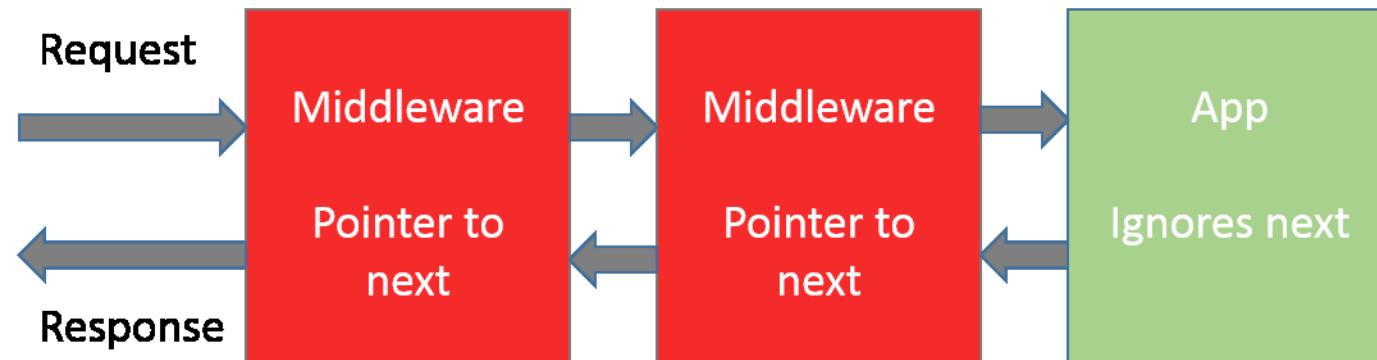
[https://msdn.microsoft.com/en-us/library/system.web.mvc.httpunauthorizedresult\(v=vs.118\).aspx](https://msdn.microsoft.com/en-us/library/system.web.mvc.httpunauthorizedresult(v=vs.118).aspx)

# Owin

- [OWIN](#) defines a standard interface between .NET web servers and web applications.
- [Katana](#) - OWIN implementations for Microsoft servers and frameworks



# Owin pipeline



# Owin resources

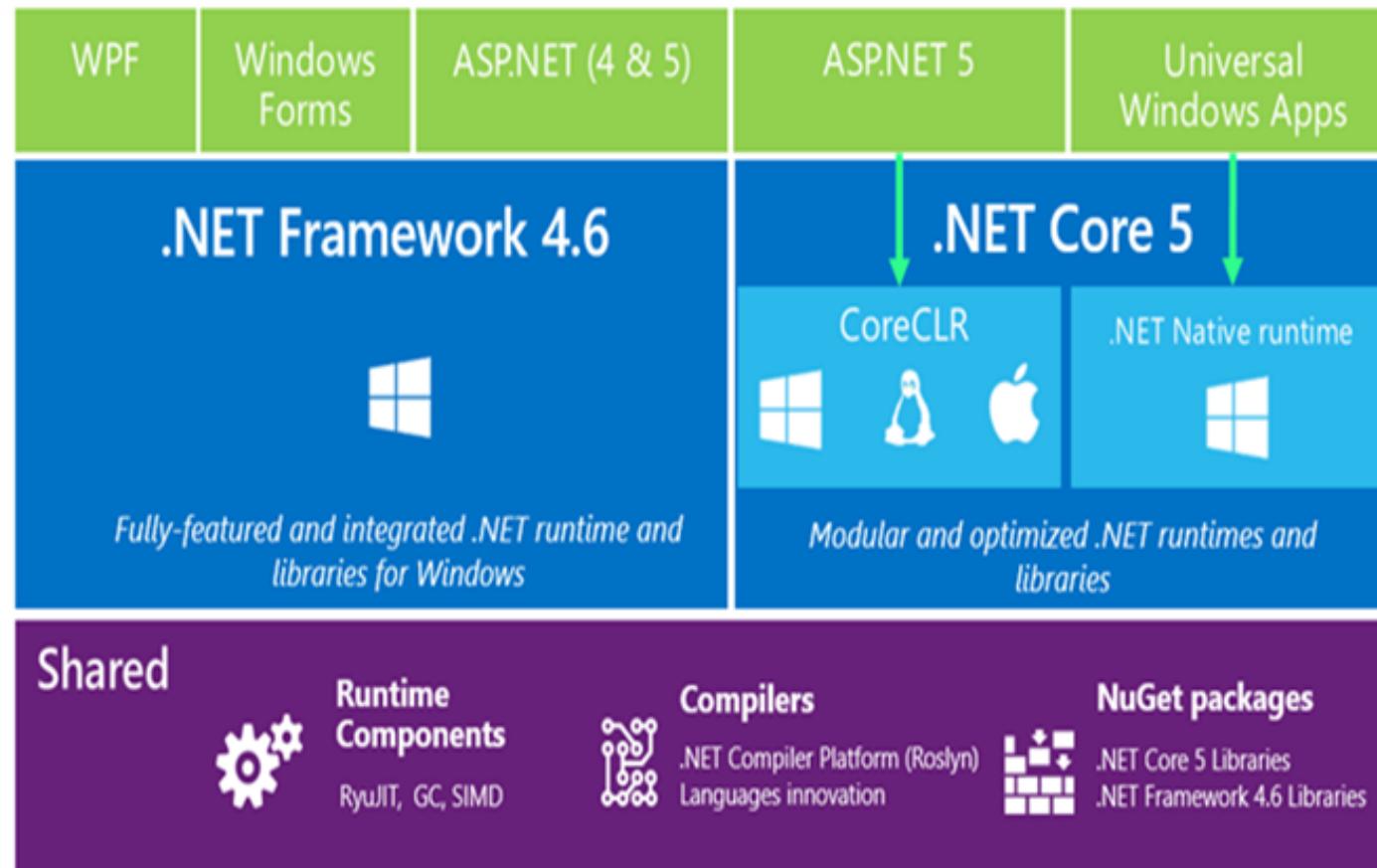
<http://www.asp.net/aspnet/overview/owin-and-katana/getting-started-with-owin-and-katana>

<http://benfoster.io/blog/how-to-write-owin-middleware-in-5-different-steps>

<http://www.asp.net/mvc/videos/pluralsight-aspnet-mvc-5-fundamentals> (video)

- “OWIN and katana” chapter

# ASP.NET 5 (vNext)



# Claim

- A *claim* is a statement that one subject makes about itself or another subject.
- The statement can be about a name, identity, key, group, privilege, or capability,

<https://msdn.microsoft.com/en-us/library/ff359101.aspx>

[https://msdn.microsoft.com/en-us/library/system.identitymodel.claims.claimtypes\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.identitymodel.claims.claimtypes(v=vs.110).aspx)

- Pre-defined claim types:

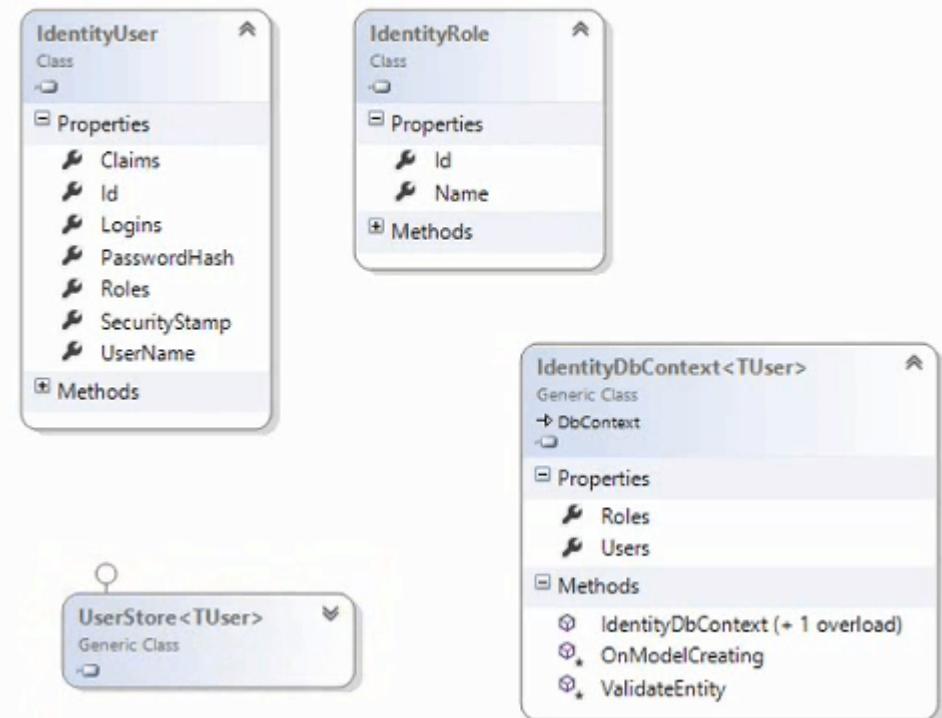
# Identity

- Microsoft.Owin.Security
  - Common types which are shared by the various authentication middleware components
  - IAuthenticationManager
    - Interacts with authentication middleware that have been chained in the pipeline.
    - HttpContext.GetOwinContext().Authentication
- Microsoft.Owin.Security.Cookies
  - Middleware that enables an application to use cookie based authentication, similar to ASP.NET's forms authentication.
- Microsoft.AspNet.Identity.Core
  - Core interfaces for ASP.NET Identity.
- Microsoft.AspNet.Identity.EntityFramework
  - ASP.NET Identity providers that use Entity Framework.
- Microsoft.AspNet.Identity.Owin
  - Owin extensions for ASP.NET Identity.

## Microsoft.AspNet.Identity.Core



## Microsoft.AspNet.Identity.EntityFramework



# Identity class overview

Microsoft.AspNet.Identity.EntityFramework

- IdentityUser – implementation of IUser
- UserManager – APIs to CRUD user, claim and auth info via UserStore
- RoleManager – APIs to CRUD roles via RoleStore
- UserStore – Talks to data layer to store users, login providers (external auth), user claims, user roles
- RoleStore – Talks to data layer to store roles
- SignInManager (Microsoft.AspNet.Identity.Owin)
  - High level API to sign in users
  - Calls UserManager and IAuthenticationManager internally

# Identity resources

<https://channel9.msdn.com/Series/Customizing-ASPNET-Authentication-with-Identity> (video)

- All videos except 05

<http://www.asp.net/mvc/videos/pluralsight-aspnet-mvc-5-fundamentals> (video)

- “Identity and Security” chapter

<http://www.asp.net/identity>

- Complete learning documentation