Authentication and Authorization in ASP.NET Core

UNDERSTANDING AUTHENTICATION AND AUTHORIZATION IN ASP.NET CORE



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Module Overview



Claims-based authentication and authorization

Identity cookie

ClaimsPrincipal

External identity providers



Authentication



Name: Jane Doe

Birth date: 12/22/1996



Authentication

Determining identity

Needs proof

Proof for application is password

On success: claims are issued



Overview



Authentication

Cookie Identity Identity Provider



Authorization

ASP.NET Core Authorization



Authorization

Limited access

What actions a user can take

Needs authentication first



Run the Migrations

update-database

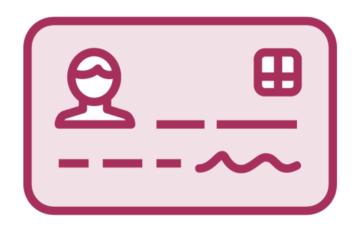


Understanding ASP.NET Core 3.x



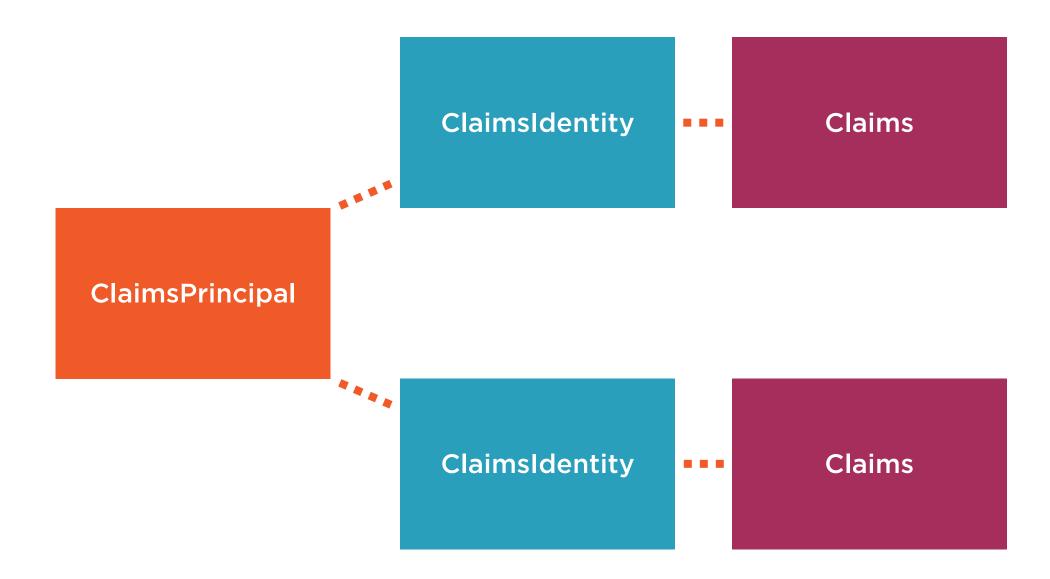
Authentication Schemes







Claims-based Identity



Identity Cookie





Identity Cookie

Tracks to which user a request belongs to Safely stores user information

Symmetric encryption, key only on server

Used to re-construct the ClaimsPrincipal object on each request

Secured by ASP.NET Core Data Protection



Problem with Identity Cookies

Persistent cookies lifetime

User has access to app as long as cookie lives

Solution: react to event that fires upon each incoming request with a cookie



Identity Cookie



External Identity Providers

Google

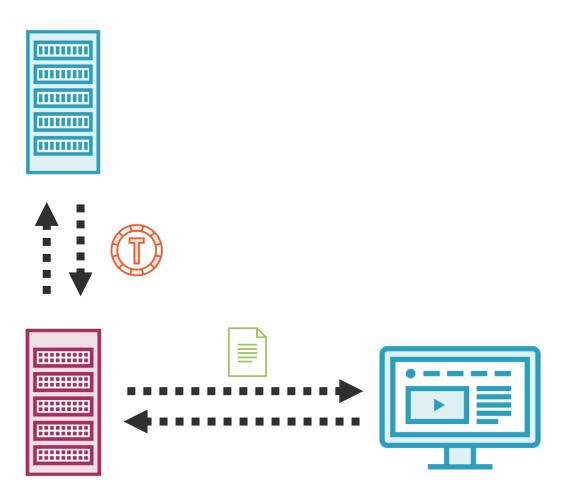
Facebook

Microsoft

Twitter



External Identity Providers





https://4sh.nl/GoogleAddApp



Secret Manager

dotnet user-secrets init

dotnet user-secrets set "Google:ClientId" "33rddrewr.."



Scheme Actions **Authenticate**

Challenge

Forbid



Summary



Understanding authentication and authorization

Implementing cookie authentication

Working with the ClaimsPrincipal object

Using external identity providers

