

EXTERNAL AUTHENTICATION WITH UMBRACO

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ABOUT ME

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AGENDA

- Identity and Access Management (IAM)
 - Terminology and advantages
- External authentication and authorization with Umbraco
 - Umbraco Back Office Users
 - Umbraco Members

IDENTITY AND ACCESS MANAGEMENT

IDENTIFICATION

- "Identification is the process by which a subject professes an identity and accountability is initiated."

AUTHENTICATION

- "Authentication is the process of verifying or testing, that a claimed identity is valid."

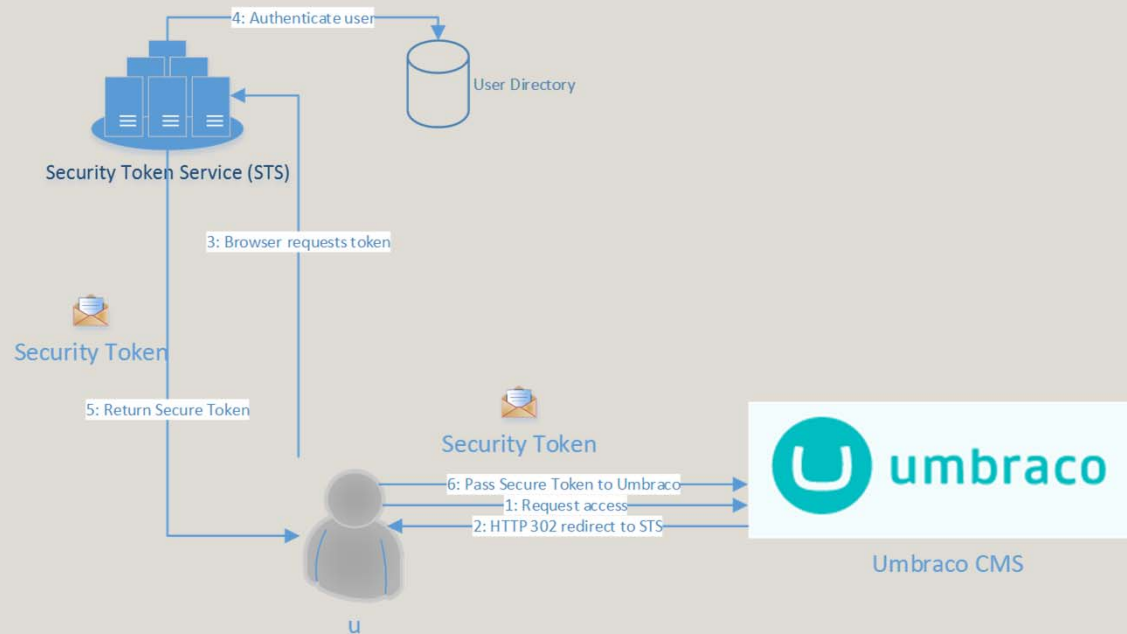
AUTHORIZATION

- “The Process of authorization ensures that the requested activity or object access is possible given the rights and privileges assigned to the authenticated identity.”

FEDERATED IDENTITY

- “A federated identity in information technology is the means of linking a person's electronic identity and attributes, stored across multiple distinct identity management systems.”

CLAIMS-BASED AUTHENTICATION



- Claims
- Security Token Service
- (Signed) Security Tokens

BENEFITS IDENTITY AND ACCESS MANAGEMENT (IAM)

- Security
- Efficiency
- Simplicity
- Productivity
- Compliance

EXTERNAL AUTHENTICATION AND AUTHORIZATION WITH UMBRACO

THE BACK OFFICE

External authentication with Azure AD

UMBRACO IDENTITY EXTENSIBILITY

- ASP.Net Identity integration for Umbraco's Back Office
- On NuGet
 - Install-Package UmbracoCms.IdentityExtensions
- Packages available for
 - Google
 - Facebook
 - Active Directory
 - Azure Active Directory

CONFIGURING AZURE AD FOR UMBRACO

- Create an Azure AD and get the Tenant Id
- Register an Azure AD Application (Web app / API)
 - get the Client Id
 - configure the Reply URL(s) to match your Umbraco Back Office URL

CONFIGURING UMBRACO

- Install-Package UmbracoCMS.IdentityExtensions.AzureActiveDirectory
- Add AzureADOwinStartup class
- Update web.config
 - Add Azure AD Ids and back office url to web.config
 - `<add key="owin:appStartup" value="UmbracoDefaultOwinStartup" />`
Change to
`<add key="owin:appStartup" value="AzureADOwinStartup" />`
- Update UmbracoADAuthExtensions.cs to auto link accounts
 - `adOptions.SetExternalSignInAutoLinkOptions(new ExternalSignInAutoLinkOptions(autoLinkExternalAccount: true, ...));`

DEMO

On-premise Umbraco + Azure AD

ADDING ROLE MANAGEMENT

- Configure your Azure AD application to send Group Claims to Umbraco in the app manifest:
 - "groupMembershipClaims": "SecurityGroup",
- Create Azure AD groups for Umbraco roles as needed
- Add logic to configure Umbraco update back office users according to role claims passed from Azure AD on valid authentication

DEMO

Putting it all together - Umbraco Cloud + Azure AD

UMBRACO MEMBERS

External OAuth authentication with AuthU

CONFIGURING UMBRACO

- Install-Package Our.Umbraco.AuthU
- Configure /oauth/token endpoint in an ApplicationEventHandler
- Update umbracoReservedPaths in web.config
`<add key="umbracoReservedPaths" value="~/umbraco,~/install,~/oauth/" />`

DEMO

AuthU by @mattbrailsford

THE FUTURE OF IAM WITH UMBRACO?

SUMMING UP

- Benefits of Identity and Access Management
- Used Azure AD to administer Umbraco back office users and their roles
- Used AuthU to provide an OAuth endpoint for third-party authentication of Umbraco Members

QUESTIONS?

THANK YOU FOR YOUR TIME

Sources: (ISC)2 and F5 Networks