

# Securing the Application and Data

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# Introduction



Things we need to secure

Azure Active Directory

Secure connections

Azure SQL Transparent Data Encryption



# Secure the Application with Azure Active Directory

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# Internationalcookies.eu



ASP.NET Core



HTTPS



Azure Web App



CDN



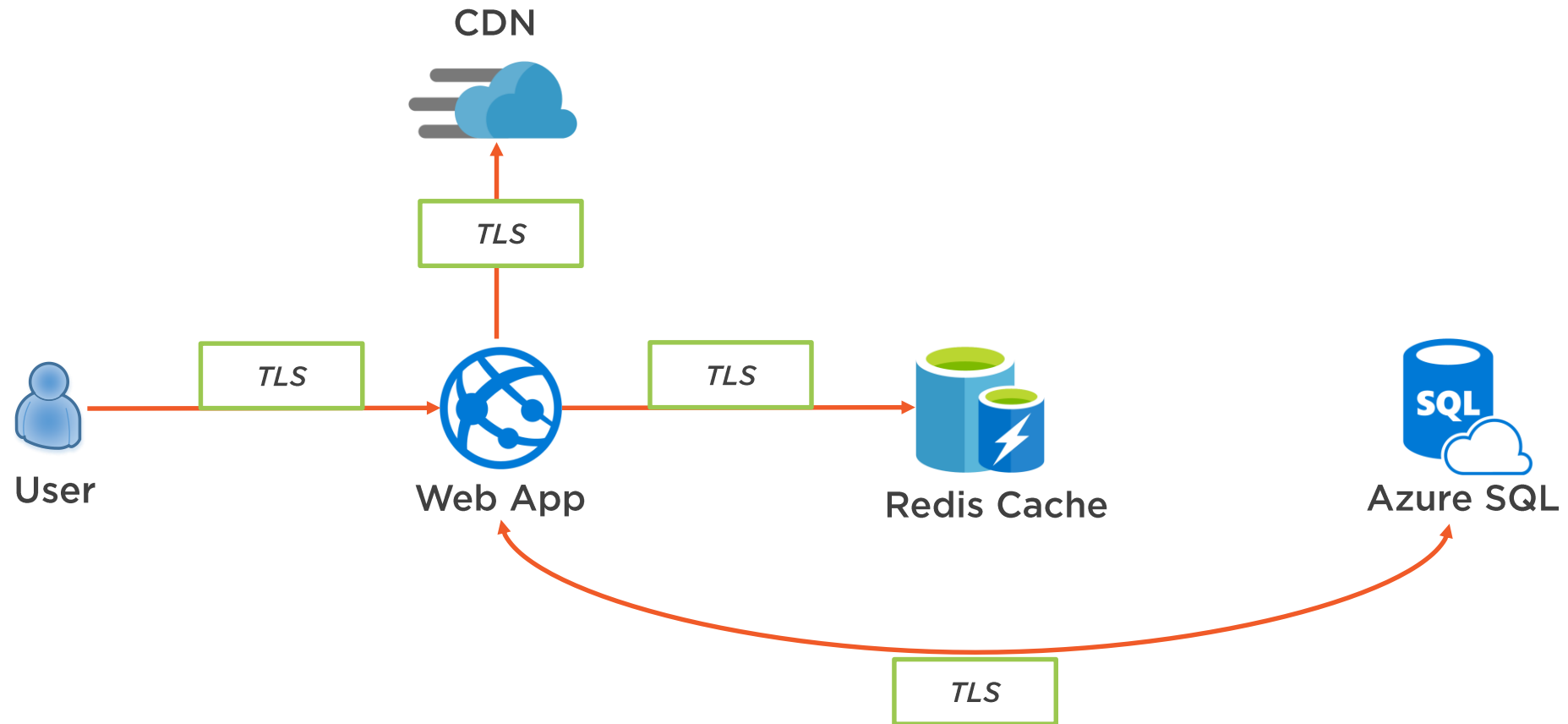
Azure Redis Cache



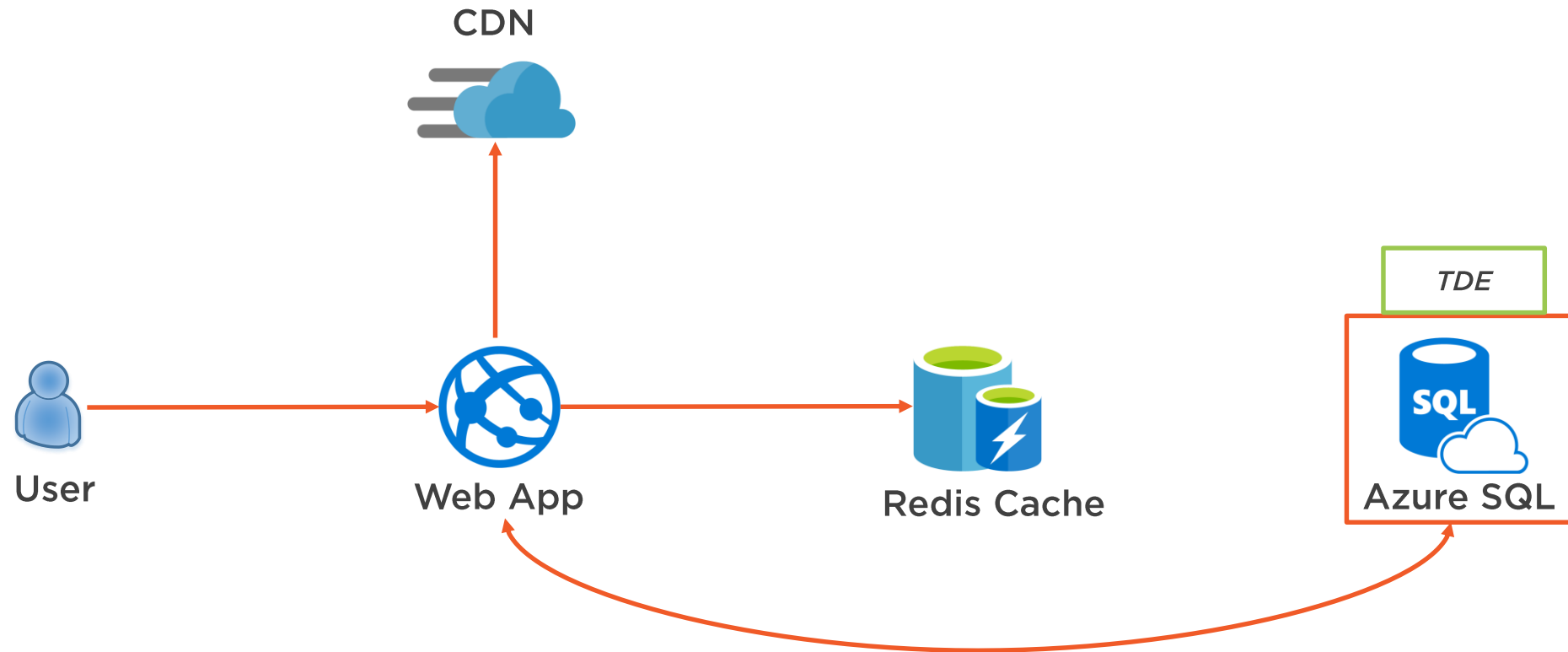
Azure SQL



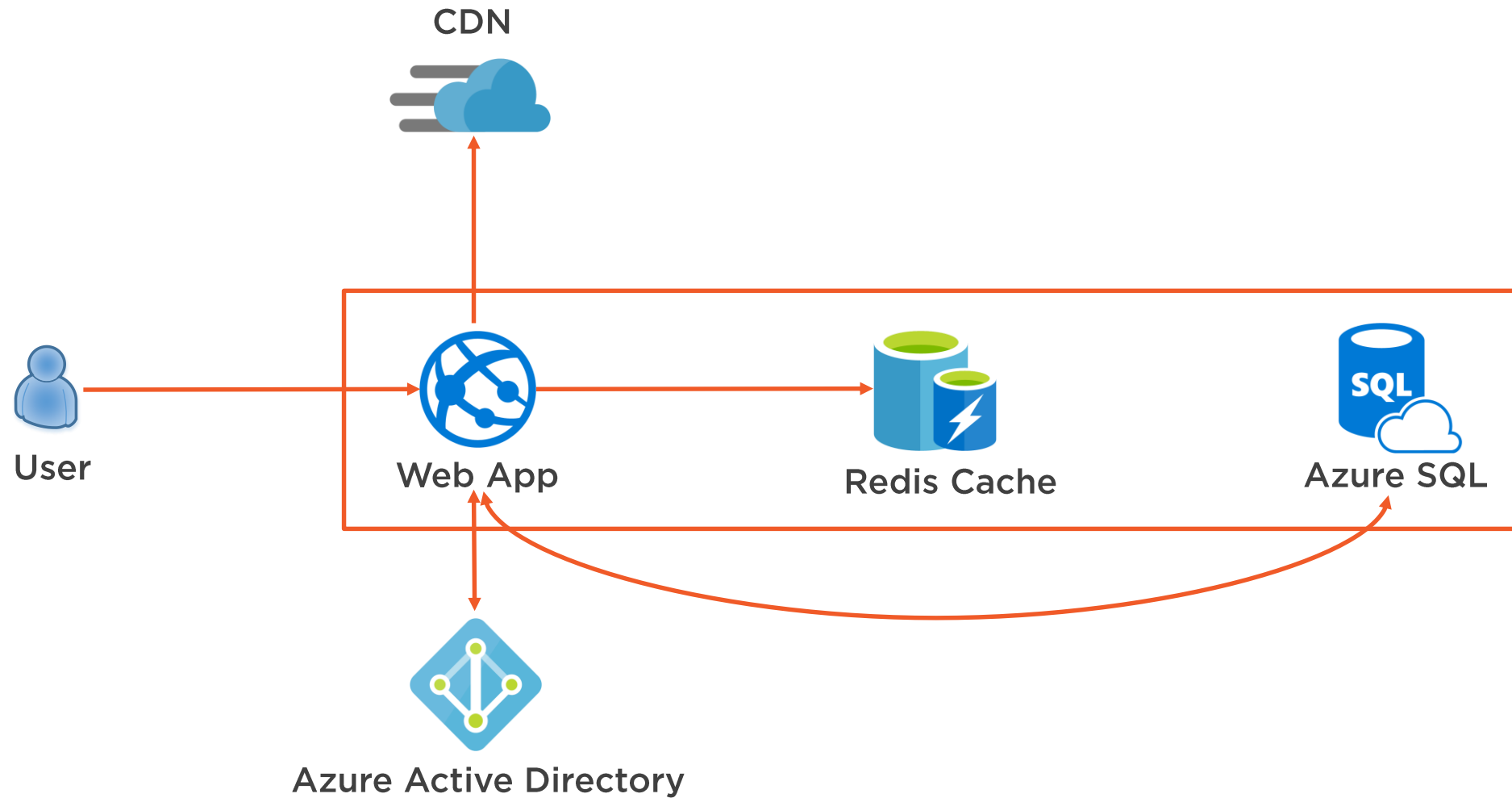
# What Do We Need to Secure?

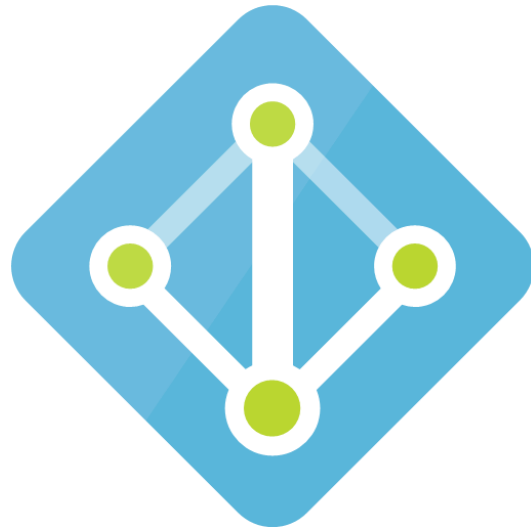


# What Do We Need to Secure?



# What Do We Need to Secure?





Azure Active Directory

# About Azure Active Directory

**Identity-as-a-Service**

**Serves as an Identity provider**

**Integrates with on-premises IDP**

**Protect cloud and on-premises applications**

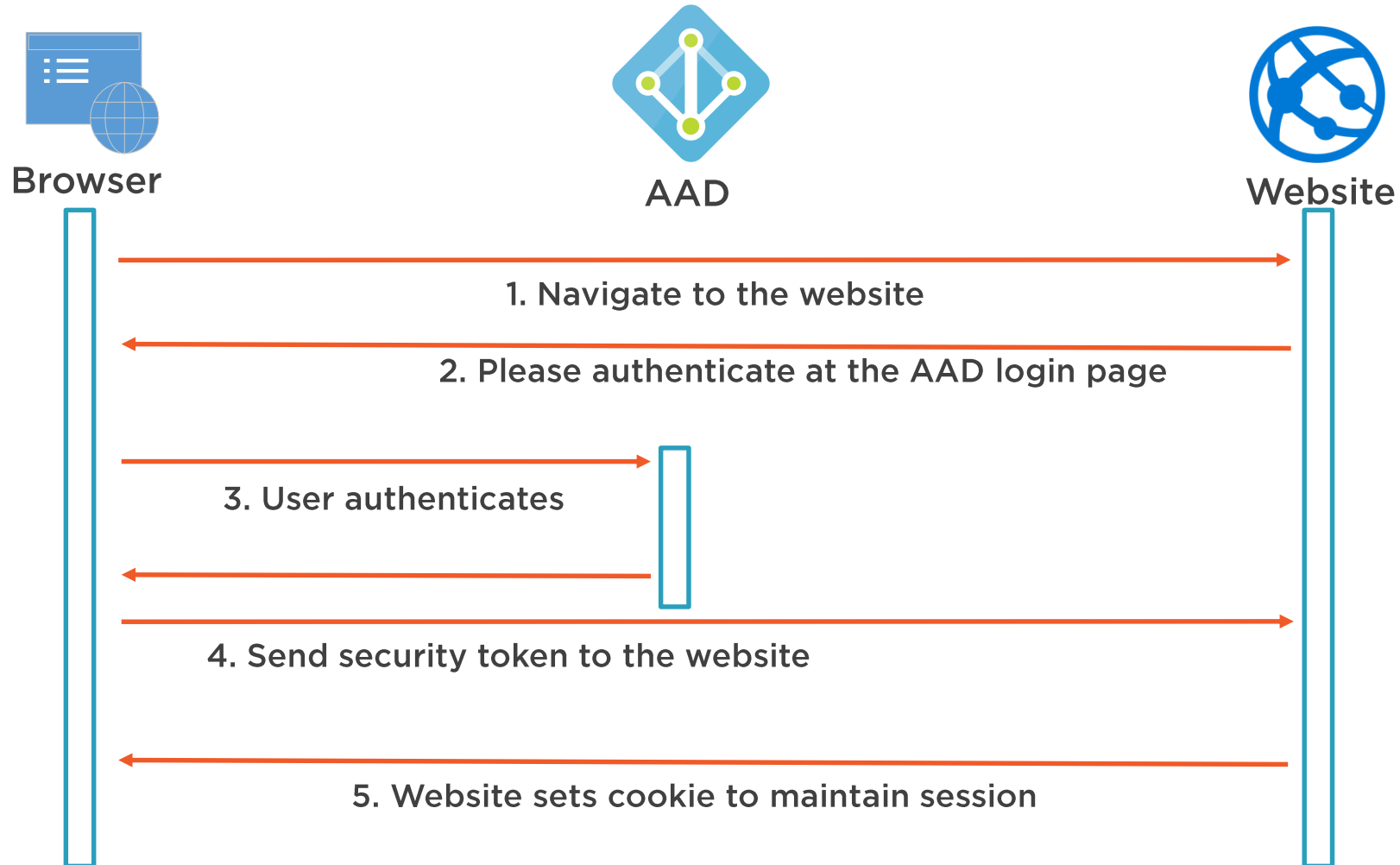
**Multi-factor authentication**

**Advanced threat detection**



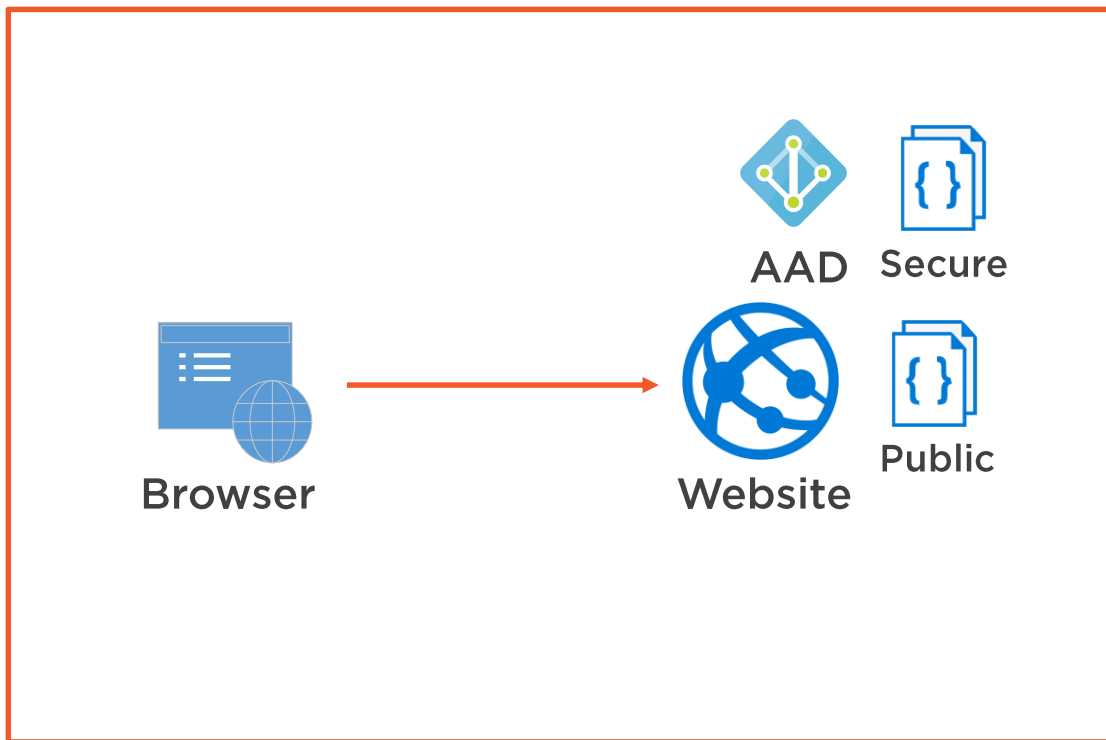


# Azure Active Directory

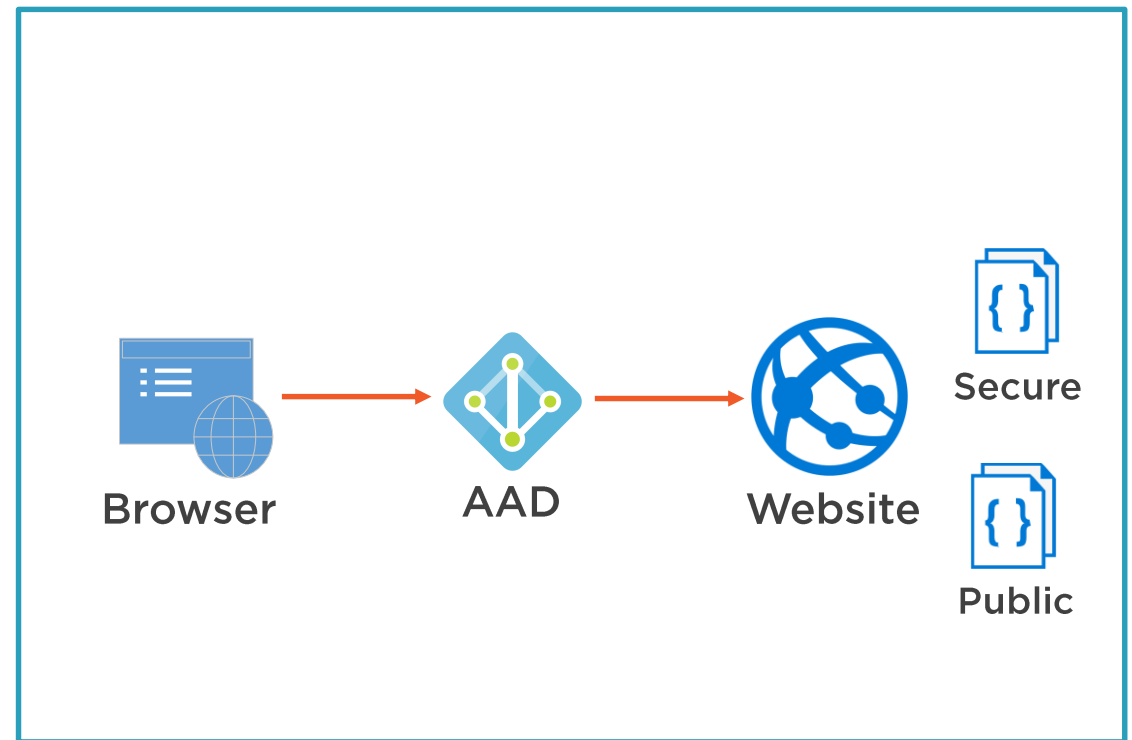


# AAD Options for App Services

## Manual



## App Service Auth



# AAD Options for App Services

## Manual

**Control over security**

**Advanced setup**

**Application needs change**

## App Service Auth

**Whole app is secure**

**Easy setup**

**Application is unchanged**



# Demo



## Implement AAD manually



# Demo Summary



**Authenticate**

**Retrieve Store ID for user**

**To run in Azure:**

- Create new application with URL's to Web App ([internationalcookies.eu](https://internationalcookies.eu))
  - Get token
  - Microsoft Graph permissions
- Add the AAD parameters to Web App Appsettings



# Demo



Secure connections

Encrypt data using TDE



# Summary



**What to secure?**

**Azure Active Directory (AAD)**

- Applications
- Middleware
- Information from AAD

**Secure connections with TLS**

**Transparent Data Encryption**

