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Introduction

IdentityServer doesn't natively support SAML SSO but it is extensible.

This document describes how to add SAML support to IdentityServer acting as a service provider.

The reader is assumed to have an existing IdentityServer project.

For information on IdentityServer, refer to the following documentation.

https://identityserver4.readthedocs.io/en/latest/

For information on building, configuring and running IdentityServer, refer to the following documentation.

http://docs.identityserver.io/en/latest/quickstarts/0_overview.html

IdentityServer supports users signing in using external identity providers.

IdentityServer is the SAML service provider and the external providers are the SAML identity providers. The application authenticating to IdentityServer may use any available protocol (e.g. OpenID Connect).

The following sections described how to enable sign-on using external SAML identity providers.

Adding SAML Support

Add the ComponentSpace.Saml2 NuGet package to the IdentityServer project.



ComponentSpace.Saml2 by ComponentSpace

Enable SAML v2.0 identity provider (IdP) and service provider (SP) single sign-on (SSO) in ASP.NET...



IdentityServer4 by Brock Allen, Dominick Baier

OpenID Connect and OAuth 2.0 Framework for ASP.NET Core



Microsoft.AspNetCore.Authentication.Google by Microsoft

ASP.NET Core contains middleware to support Google's OpenId and OAuth 2.0 authentication wor...



Serilog.AspNetCore by Microsoft, Serilog Contributors

Serilog support for ASP.NET Core logging

Add the Certificates folder to the IdentityServer project. The following certificate files may be copied from the ExampleServiceProvider project.

- sp.pfx
- idp.cer

Service Provider Configuration

In IdentityServer's appsettings.json, include the SAML configuration.

```
"$schema": "https://www.componentspace.com/schemas/saml-config-schema-v1.0.json",
"Configurations": [
  "LocalServiceProviderConfiguration": {
   "Name": "https://IdentityServer",
   "Description": "Identity Server",
   "AssertionConsumerServiceUrl": "https://localhost:5001/SAML/AssertionConsumerService",
   "SingleLogoutServiceUrl": "https://localhost:5001/SAML/SingleLogoutService",
   "LocalCertificates": [
    {
     "FileName": "certificates/sp.pfx",
     "Password": "password"
   ]
  "PartnerIdentityProviderConfigurations": [
    "Name": "https://ExampleIdentityProvider",
    "Description": "Example Identity Provider",
    "SignAuthnRequest": true,
    "SignLogoutRequest": true,
    "SignLogoutResponse": true,
    "SingleSignOnServiceUrl": "https://localhost:44313/SAML/SingleSignOnService",
    "SingleLogoutServiceUrl": "https://localhost:44313/SAML/SingleLogoutService",
    "PartnerCertificates": [
      "FileName": "certificates/idp.cer"
```

For information on SAML configuration, refer to the SAML for ASP.NET Core Configuration Guide.

Application Startup

In the ConfigureServices method in IdentityServer's Startup class, add the following.

```
services.Configure<CookiePolicyOptions>(options =>
{
    // SameSiteMode.None is required to support SAML SSO.
    options.MinimumSameSitePolicy = SameSiteMode.None;
});
```

For more information, refer to the SAML for ASP.NET Core Developer Guide.

Identity Provider Configuration

The following partner service provider configuration is included in the example identity provider's SAML configuration.

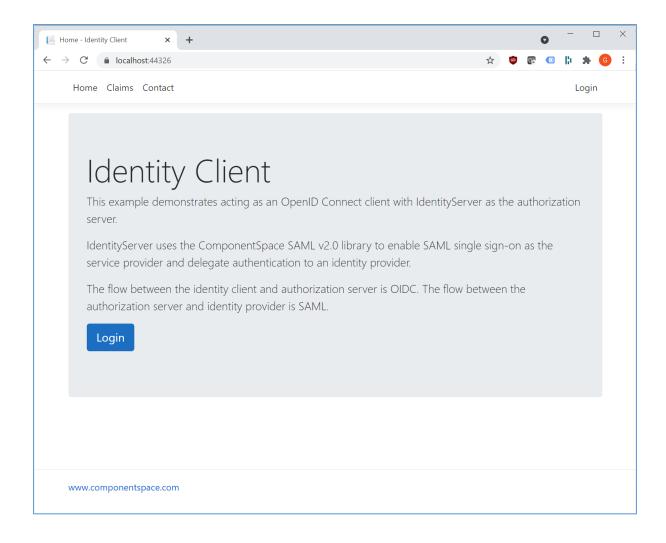
```
{
    "Name": "https://ldentityServer",
    "Description": "Identity Server",
    "WantAuthnRequestSigned": true,
    "SignSamlResponse": true,
    "SignLogoutRequest": true,
    "SignLogoutResponse": true,
    "AssertionConsumerServiceUrl": "https://localhost:5001/SAML/AssertionConsumerService",
    "SingleLogoutServiceUrl": "https://localhost:5001/SAML/SingleLogoutService",
    "PartnerCertificates": [
    {
        "FileName": "certificates/sp.cer"
    }
    ]
}
```

SP-Initiated SSO

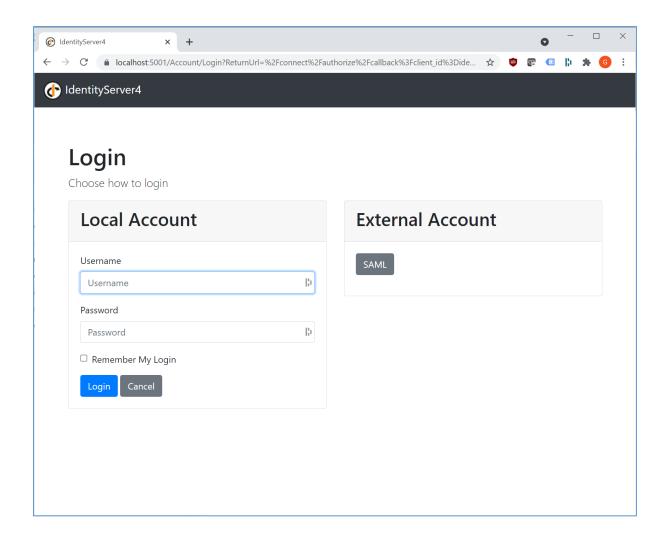
The reader is assumed to have an application that authenticates to IdentityServer using OpenID Connect or some other protocol.

For more information, refer to the IdentityServer documentation.

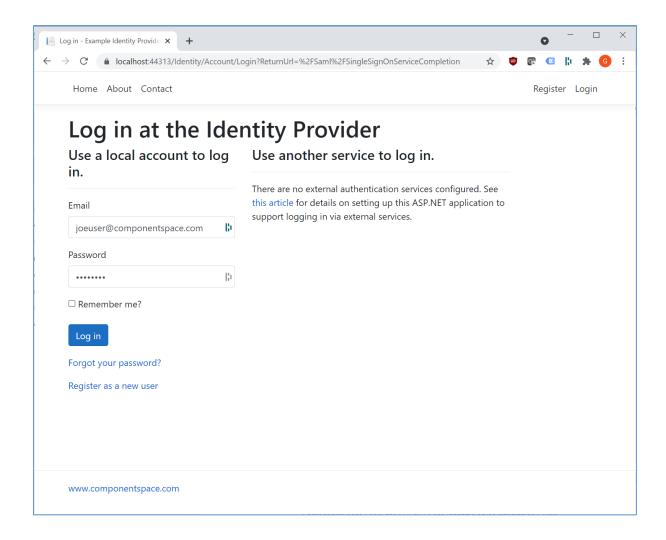
Browse to the application and initiate login.



At the IdentityServer login page, click the SAML external login button.

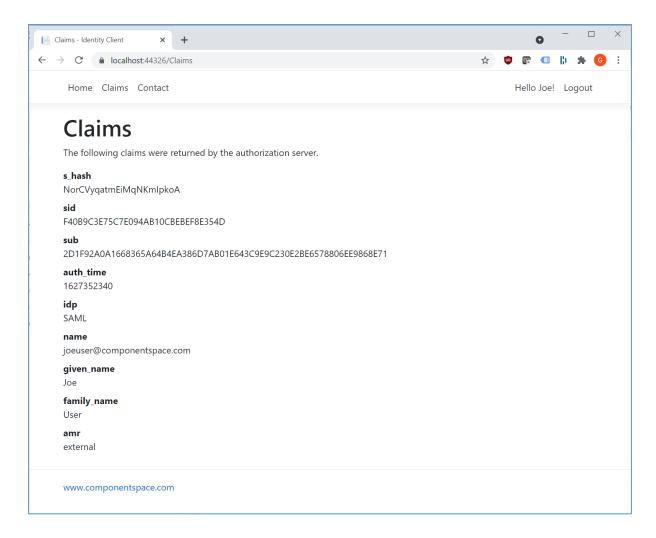


Login at the SAML identity provider.



Depending on how IdentityServer is configured, you may be prompted whether to allow the requested permissions.

The user is automatically logged in at the service provider.



IdP-Initiated SSO

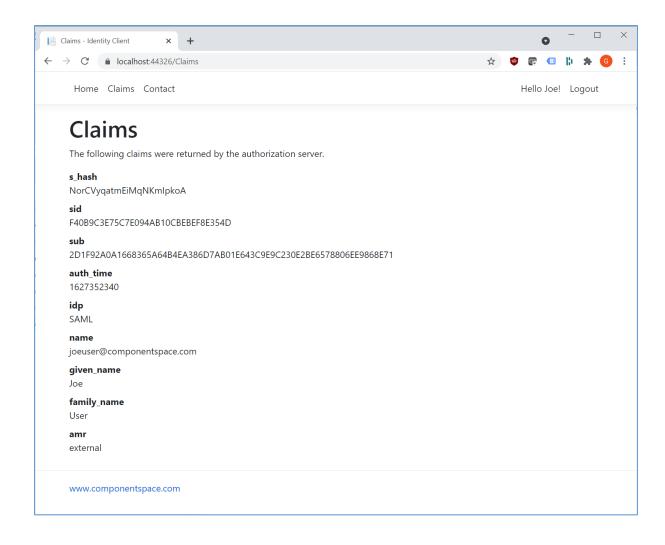
IdP-initiated SSO is not supported by IdentityServer.

SAML Logout

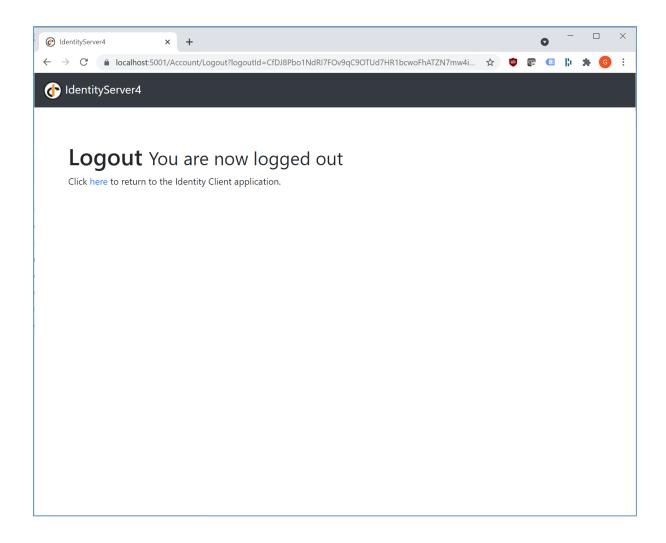
IdP-initiated SAML logout is not supported by IdentityServer.

SP-initiated SAML logout is supported.

Initiate logout at the application.



You are logged out at IdentityServer and the SAML identity provider.



Click the link to return to the application.

