



SSO

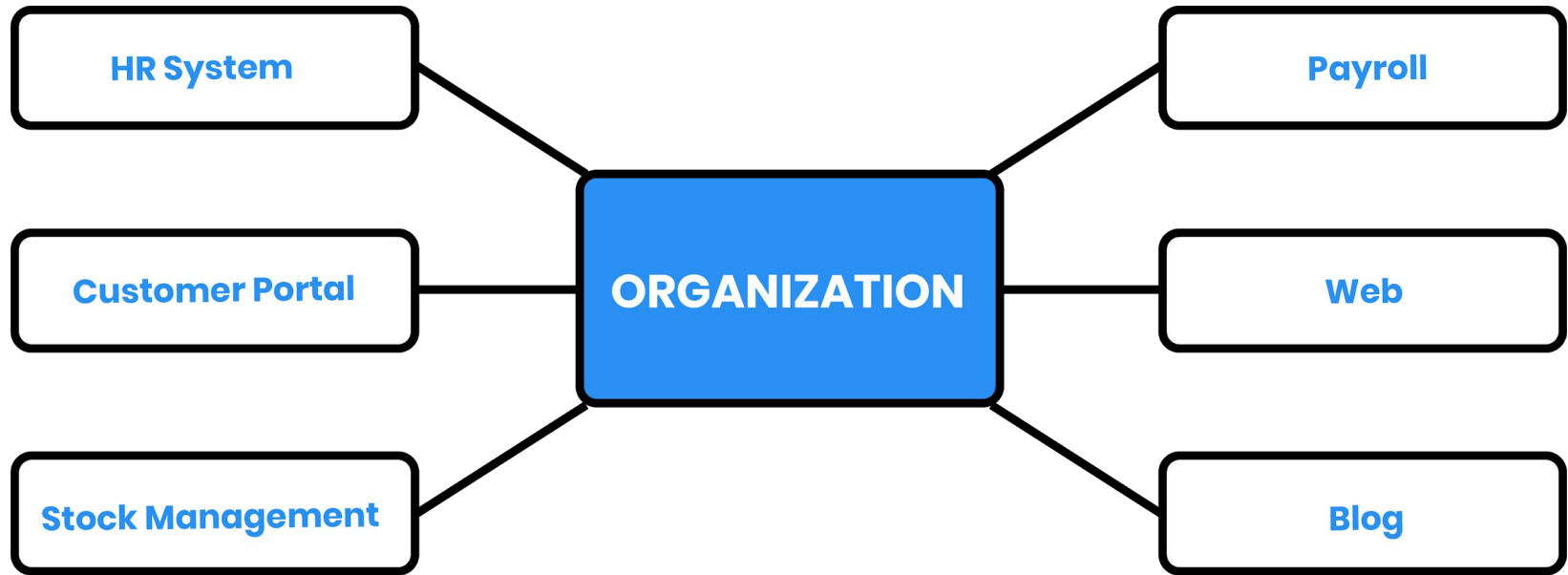
SINGLE SIGN ON ACROSS DRUPAL 8

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DIGITALLY DRIVEN WORLD

In today's digitized world, connecting its systems is a must for any organization.





AUTHENTICATION

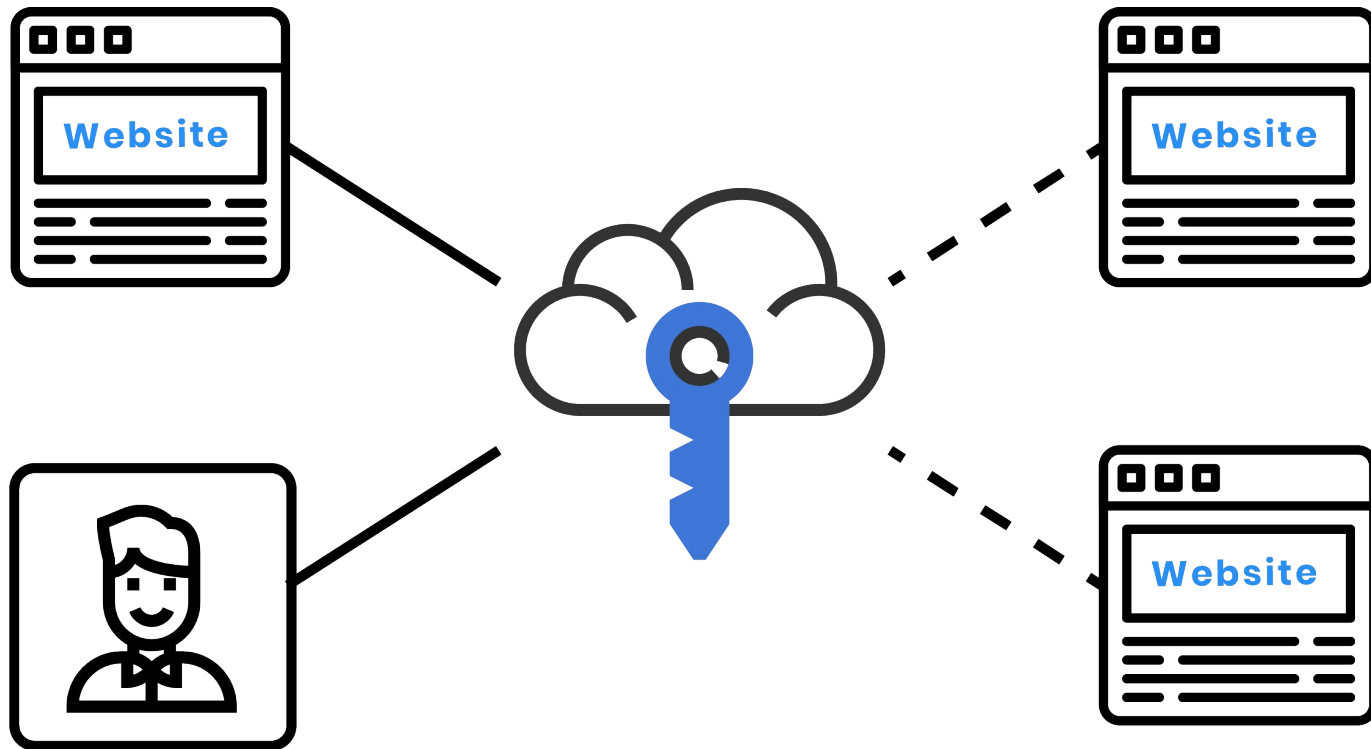
Given the number of systems, websites, and more, having a single authentication mechanism across all systems is highly beneficial.



WHAT IS SSO?

Single Sign-On (SSO) is a user authentication service that permits a user to use one set of login credentials (for example, their name and password) to access multiple systems.





BENEFITS

- Same user credentials used for multiple systems to simplify login benefits
- Automatic login to federated systems
- Single logout system (SLO)



WHY ORGANIZATIONS NEED SSO

- Centralized system to manage users and roles
- Lower operational costs
- Easy migration and configuration with a new system



SSO STANDARDS

- SAML 2.0
- WS-Federation
- WS-Trust
- OAuth 2.0
- OpenID Connect
- SCIM



SAML

Security Assertion Markup Language (SAML) is an XML-based data format for exchanging authentication and authorization data between an identity provider and a service provider.



PROVIDERS

- Identity Provider (IdP)

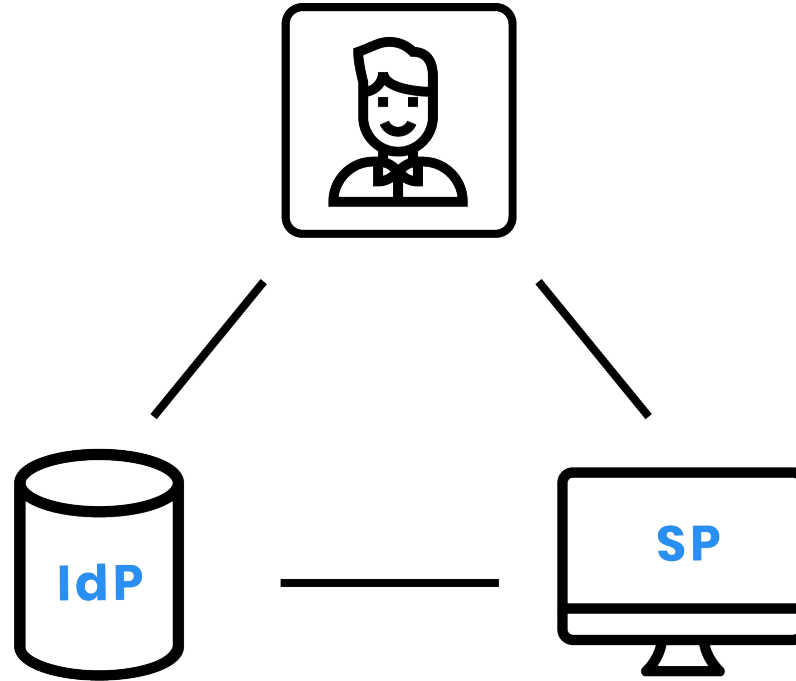
The SAML authority that provides the identity assertion to authenticate a user

- Service Provider (SP)

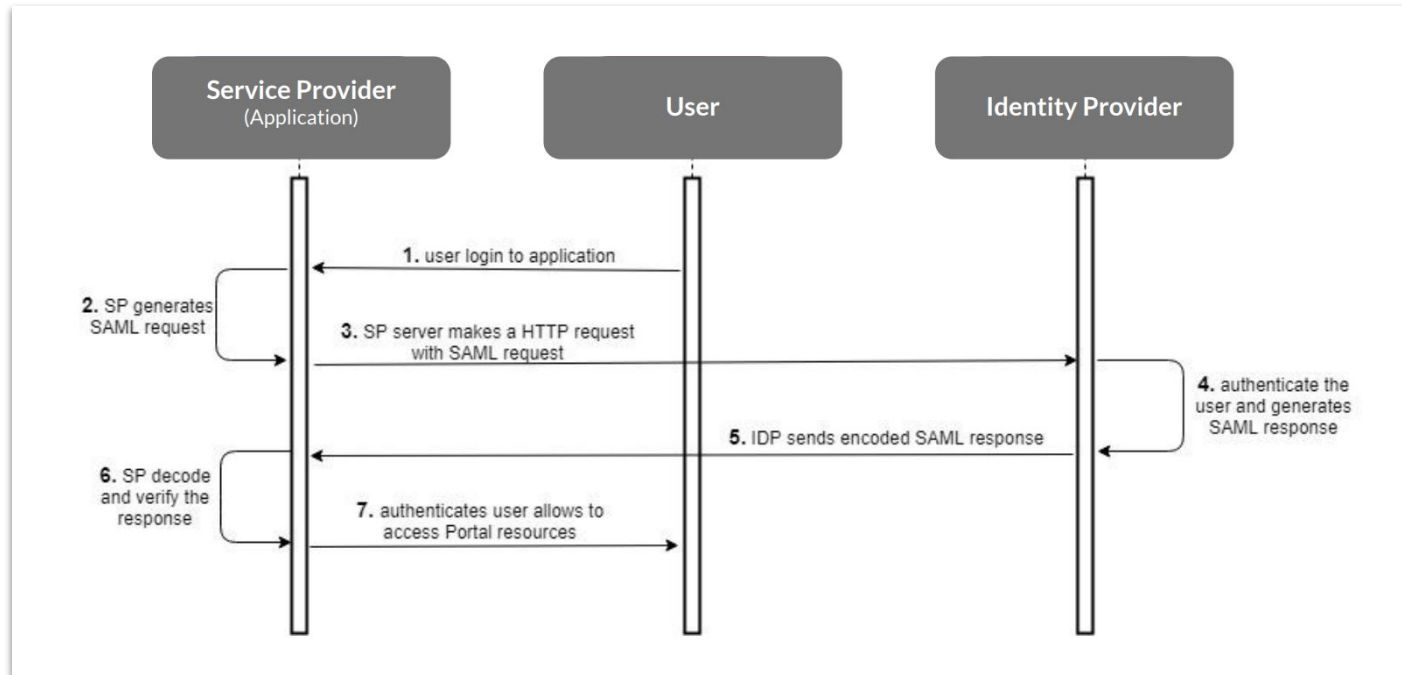
The SAML consumer that provides the service for users



HOW SAML WORKS



STEPS INVOLVED IN SAML



REQUIREMENTS

- SimpleSAMLphp Library
- Drupal 8 instances
- SimpleSAMLphp_auth Drupal module



SETTING UP SP AND IDP

- Two Drupal instances
- One instance as SP
- Other instance as IdP



SERVICE PROVIDER CONFIGURATIONS

- Set up a SimpleSAMLphp library inside the docroot of the Drupal
- Create a symlink and update the .htaccess file
- Configure config.php
- Generate certificates (Run this command inside cert folder)

```
openssl req -new -x509 -days 3652 -nodes -out saml.crt -keyout saml.pem
```



SimpleSAMLphp installation page

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Welcome

Configuration

Authentication

Federation

Congratulations, you have successfully installed SimpleSAMLphp. This is the start page of your installation, where you will [Login as administrator](#) find links to test examples, diagnostics, metadata and even links to relevant documentation.

- [Documentation](#)

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IDP CONFIGURATIONS

- Set up SimpleSAMLphp library inside the docroot of the Drupal
- Create a symlink and update the .htaccess file
- Update config.php

```
'enable.saml20-idp' => true
```

- Enable exampleauth module

```
cd modules/exampleauth
```

```
touch enable
```

- Configure authsources.php



SimpleSAMLphp installation page

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Welcome

Configuration

Authentication

Federation

- [Test configured authentication sources](#)

[Login as administrator](#)

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VERIFYING THE IDP

- Generate certificates (Run this command inside cert folder)

```
cd cert
```

```
openssl req -newkey rsa:3072 -new -x509 -days 3652 -nodes -out server.crt -keyout  
server.pem
```

- SAML 2.0 IdP needs to be configured by the metadata stored in

```
metadata/saml20-idp-hosted.php
```

```
metadata/saml20-idp-hosted.php
```



SimpleSAMLphp installation page

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Welcome

Configuration

Authentication

Federation

SAML 2.0 SP Metadata

[Login as administrator](#)

Entity ID: <http://localhost:8888/drupal-8-ip/simplesaml/module.php/saml/sp/metadata.php/default-sp>

default-sp

[[Show metadata](#)]

SAML 2.0 IdP Metadata

Entity ID: <http://localhost:8888/drupal-8-ip/simplesaml/saml2/idp/metadata.php>

Index: [__DYNAMIC:1__](#)

[[Show metadata](#)]

Tools

- [Delete my choices of IdP in the IdP discovery services](#)
- [XML to SimpleSAMLphp metadata converter](#)

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METADATA

- Copy IdP metadata to the
metadata/saml20-idp-remote.php file of the SP
- Copy SP metadata to the
metadata/saml20-sp-remote.php file of the IdP
- Configure Service Provider with the IdP name




TEST CONFIGURED AUTHENTICATION RESOURCES


Enter your username and password

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Enter your username and password

A service has requested you to authenticate yourself. Please enter your username and password in the form below.

 Username


 Password

Login

Help! I don't remember my password.

Without your username and password you cannot authenticate yourself for access to the service. There may be someone that can help you. Consult the help desk at your organization!

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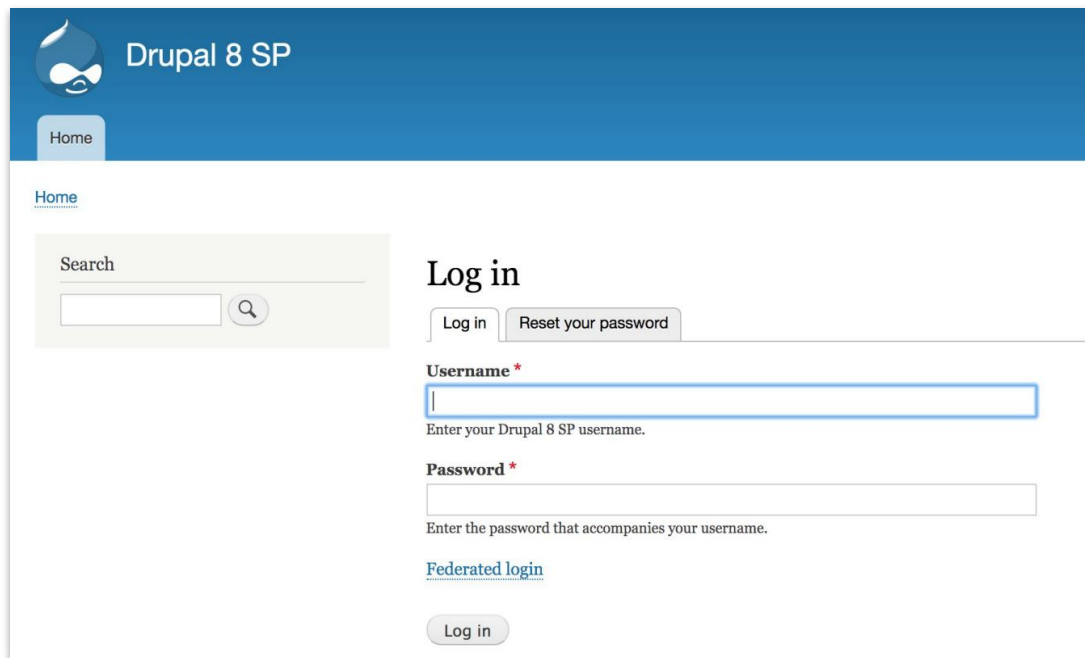


SIMPLESAMLPHP_AUTH MODULE

- Download and install the module
- Check 'Activate authenticate via SimpleSAMLphp' (Basic settings)
- Change 'User info and Syncing'
 - uid as the unique identifier for the user
 - uid as the username for the user
 - email as the email address for the user



FEDERATED LOGIN



The screenshot shows the Drupal 8 SP login interface. At the top, there is a blue header with the Drupal logo and the text "Drupal 8 SP". Below the header, there is a "Home" button. On the left side, there is a search bar with the label "Search" and a magnifying glass icon. On the right side, there is a "Log in" section. It features a "Log in" button and a "Reset your password" button. Below these buttons, there are two input fields: "Username*" and "Password*". The "Username*" field has a blue border and a small blue icon. Below the "Username*" field, there is a hint: "Enter your Drupal 8 SP username." Below the "Password*" field, there is a hint: "Enter the password that accompanies your username." At the bottom of the "Log in" section, there is a "Federated login" link and a "Log in" button.

Drupal 8 SP

Home

Search

Log in Reset your password

Username*

Enter your Drupal 8 SP username.

Password*

Enter the password that accompanies your username.

[Federated login](#)

Log in



OPEN SOURCE SSO

- Aerobase
- CAS
- Keycloak
- Shibboleth
- WSO2 Identity Server



CONNECT WITH WSO2 IDENTITY SERVER

- Download WSO2 Identity Server
- Run/bin/wso2server.sh on terminal
- Open <https://localhost:9443/carbon/> in web browser
- Login to the system
 - Username: admin
 - Password: admin





SSO

SINGLE SIGN ON ACROSS DRUPAL 8

DEMONSTRATION

RESOURCES

- <https://medium.com/@iwantha/single-sign-on-across-drupal-8-e42db6a2e7f>
- <https://medium.com/@iwantha/wso2-identity-server-sso-with-drupal-8-4bb8ae915c20>
- <https://github.com/simplesamlphp/simplesamlphp>
- https://www.drupal.org/project/simplesamlphp_auth
- <https://wso2.com/identity-and-access-management>



THANK YOU



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