



Single Sign-on Implementation in Wordpress

Keycloak Implementation



By Srikanth V. Mattihalli



1. Introduction to Single Sign-On (SSO)

- Definition: Single Sign-On allows users to authenticate once and gain access to multiple applications seamlessly.
- Benefits:
 - Improved user experience with fewer logins.
 - Centralized authentication for better security.
 - Easier user management and reduced password fatigue.



SSO Providers

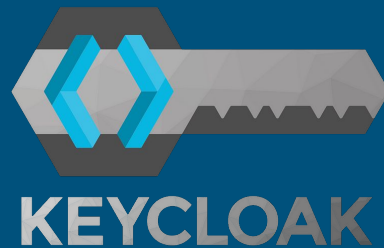
- onelogin
- Okta
- Keycloak
- auth0
- ping Identity etc.

2. Overview of Keycloak

Keycloak is an open-source Identity and Access Management (IAM) solution.

Features:

- Supports **SAML**, **OAuth 2.0**, and **OpenID Connect** (OIDC).
- Offers user federation, identity brokering, and social login.
- Comes with an admin console for managing users and configurations.



3. WordPress as a Service Provider (SP)

- WordPress supports integrating with external Identity Providers (IdPs) for SSO.
- Plugins can extend WordPress functionality to act as an SP using protocols like SAML or OAuth.



3. Setting Up Keycloak with WordPress

Step 1: Install Keycloak

- Download and set up Keycloak. (Using Docker / custom)
- Create a new Realm and Client for WordPress.

Step 2: Configure Keycloak as an IdP

- For SAML:
 - Enable SAML support in Keycloak for the client.
 - Configure the SP metadata for WordPress.
- For OAuth:
 - Use Keycloak's OpenID Connect support.
 - Define client credentials, redirect URLs, and roles.

4. Configuring WordPress

Use WordPress plugins like:

- For SAML: *WordPress SAML Single Sign-On Plugin*.
- For OAuth: *OAuth Single Sign-On Plugin*.
- For OpenID: *OpenID Generic Connect*.

Configuration:

- Provide Keycloak endpoints and client details in the plugin settings.
- Map user roles and attributes from Keycloak to WordPress.

miniOrange



OpenID Connect
Generic Client
by daggerhart

5. Best practices for SSO Implementation

- Use HTTPS to secure communication between WordPress and Keycloak.
- Keep Keycloak updated for the latest security patches.
- Configure proper roles and permissions in both Keycloak and WordPress.
- Implement session timeout and automatic token revocation for security.

DEMO

Questions?



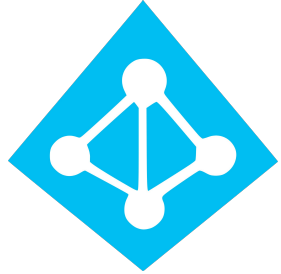
Other SSO



Auth0



okta



onelogin

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That's All Folks!

