# System Requirements

* **Linux server** (Debian 9 or later, Ubuntu 18.04+, or CentOS 7+)
* **Apache 2.4+** with **PHP 7.0+**
* **MySQL/MariaDB 5.7+**
* **Internet connectivity** for downloading dependencies
* **Existing Keycloak server** with administrator access

# Basic Knowledge

* Basic understanding of Linux commands (cd, ls, nano/vim, systemctl)
* Familiarity with editing configuration files in PHP
* Admin access to your server and Keycloak

# Required PHP Extensions

Install the required PHP extensions:

sudo apt-get update  
sudo apt-get install php php-mysql php-curl php-json php-mbstring php-xml php-zip

# Composer Installation

Download and install Composer:

# Download and install Composer  
curl -sS https://getcomposer.org/installer | php  
sudo mv composer.phar /usr/local/bin/composer  
sudo chmod +x /usr/local/bin/composer  
  
# Verify installation  
composer --version

# SSO Deployment & Keycloak Configuration Guide

## 1. Download SSO Package

* Download the SSO zip file containing all necessary files from your storage (S3, OneDrive, etc.).

## 2. Copy to Dejavu Engine Server

* Transfer the downloaded zip file to your Dejavu engine server.

## 3. Unzip the Package

* Unzip the file in your desired directory:
* unzip sso\_package.zip

## 4. Copy Files to Decoify Application

* Navigate to the unzipped folder and run:
* cp composer.json loginView.php logout.php oidc\_login.php .env /var/www/html/Decoify/  
  cp -r vendor/ /var/www/html/Decoify/  
  cp main-sidebar.php /var/www/html/Decoify/template/

## 5. Restart Apache

* Restart the Apache server to apply changes:
* systemctl restart apache2

## 6. Configure SSO in .env

* Check the .env file:
  + If SSO\_ENABLE=false, the SSO button will not be shown.
  + For testing, set SSO\_ENABLE=true and restart Apache. The SSO button will appear.
* Update necessary Keycloak configuration values in .env (see Keycloak section below).
* Restart Apache after any .env changes.

## 7. Keycloak Server Configuration

**Note:** You need admin access to your Keycloak server.

### 1. Access Keycloak Admin Console

* Open: http://your-keycloak-server:8080
* Login with admin credentials.

### 2. Create a New Realm

* Click “Master” dropdown (top-left).
* Click “Create Realm”.
* Realm name: decoify-realm (or your preferred name).
* Click “Create”.
* **Note:** Save the realm name for later.

### 3. Create a Client

* Go to Clients → Create client.
* Fill in:
  + Client ID: decoify-client
  + Client Type: OpenID Connect
  + Client authentication: ON
* Click “Next”.
* Capability settings:
  + Standard flow: ON
  + Direct access grants: ON
  + Implicit flow: OFF
* Click “Next”.
* Login settings:
  + Valid redirect URIs: http://your-server-ip/Decoify/oidc\_login.php
  + Valid post logout redirect URIs: http://your-server-ip/Decoify/loginView.php
  + Web origins: http://your-server-ip
* Click “Save”.

### 4. Get Client Secret

* Go to Clients → decoify-client → Credentials tab.
* Copy the Client Secret (needed for .env).
* **Important:** Keep this secret secure.

### 5. Create Test Users

* Go to Users → Create new user.
* Fill in:
  + Username: test.user@company.com
  + Email: test.user@company.com
  + First name: Test
  + Last name: User
  + Email verified: ON
* Click “Create”.
* Go to Credentials tab → Set password.
* Set password, Temporary: OFF.
* Click “Save”.

### 6. Configure User Attributes (Optional)

* Go to Users → Select user → Attributes tab.
* Add custom attributes:
  + department: IT
  + role: admin
  + company: YourCompany

### 7. Configure Client Scopes (Optional)

* Go to Client scopes.
* Create custom scopes for additional user attributes.
* Assign scopes to your client under Clients → decoify-client → Client scopes.

**After completing these steps, your SSO system should be ready for use and integrated with Keycloak.**