

# Connecting with PHP

This guide explains how to establish a connection between a PHP application and a Keycloak identity provider using the jumbojett/openid-connect-php library. It walks through the necessary setup, configuration, and execution of a protected login route using OpenID Connect (OIDC).

## Variables

Certain parameters must be provided to integrate a PHP application with Keycloak. Below is a breakdown of each required variable, its purpose, and where to find it. Here's what each variable represents:

Variable	Description	Purpose
CLIENT_ID	Client ID from the Keycloak Admin Console	Identifies the PHP app in the Keycloak realm
CLIENT_SECRET	Secret from the Client > Credentials tab	Authenticates the PHP app with Keycloak
ISSUER	The Keycloak realm URL (e.g., https://your-domain/realms/your-realm)	Acts as the OIDC issuer and discovery endpoint
REDIRECT_URI	The URI that Keycloak will redirect to after login	Where the user will be sent after successful authentication
TOKEN_ENDPOINT	Token URL under the selected realm	Used to retrieve access/ID tokens
USERINFO_ENDPOINT	URL to fetch user profile information	Used to retrieve authenticated user details

These values can be copied from the Keycloak Admin Console under **Clients > [Your Client] > Endpoints**.

## Prerequisites

### Install PHP and Composer

Ensure PHP is installed:

```
php -v
```

Install Composer (PHP dependency manager) if not already installed:

```
composer --version
```

If not installed, visit <https://getcomposer.org> and follow the install instructions

## Install Required Package

Install the jumbojett/openid-connect-php package using Composer:

```
composer require jumbojett/openid-connect-php
```

# Code

Once all prerequisites are set up, create a file named keycloak.php and add the following code:

```
<?php
require_once __DIR__ . '/vendor/autoload.php';

use Jumbojett\OpenIDConnectClient;

$oidc = new OpenIDConnectClient(
    'https://your-keycloak-domain/realms/your-realm',
    'CLIENT_ID',
    'CLIENT_SECRET'
);

// Optional config
$oidc->setRedirectURL('http://localhost:8000/keycloak.php');
$oidc->setProviderConfigParams([
    'token_endpoint' => 'https://your-keycloak-domain/realms/your-realm/protocol/openid-connect/token',
    'userinfo_endpoint' => 'https://your-keycloak-domain/realms/your-realm/protocol/openid-connect/userinfo'
]);

// Start login flow
$oidc->authenticate();
```

```
// Show user info
$userInfo = $oidc->requestUserInfo();

echo "<h1>Welcome, " . htmlspecialchars($userInfo->preferred_username) . "</h1>";
echo "<pre>";
print_r($userInfo);
echo "</pre>";
?>
```

Replace:

- `https://your-keycloak-domain/realms/your-realm` with your actual realm URL
- `CLIENT_ID` and `CLIENT_SECRET` with credentials from the Keycloak client settings
- `http://localhost:8000/keycloak.php` with your desired callback/redirect URI

Ensure the **Valid Redirect URIs** field in Keycloak matches the above redirect URI.

# Execution

Start a PHP development server in the directory containing `keycloak.php`:

```
php -S localhost:8000
```

Open your browser and navigate to:

```
http://localhost:8000/keycloak.php
```

If the connection is successful:

1. You'll be redirected to the Keycloak login page.
2. After authentication, you'll be redirected back to the PHP script.
3. The user profile will be displayed using data returned from Keycloak.

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