

# Documentation POWER CAPTCHA Vtiger integration

The following example shows how POWER CAPTCHA can be integrated into the PHP application Vtiger.

## POWER CAPTCHA integration frontend

In the Vtiger CRM software, the front end is mapped using Smarty templates. In order to secure the login interface for this example, the login template should first be divided into a default and a custom variant, so that the original login form can be easily reused. The files then look like this:

```
layouts/v7/modules/Users/Login.tpl  
layouts/v7/modules/Users/Login.Default.tpl  
layouts/v7/modules/Users/Login.Custom.tpl
```

The content from Login.tpl should be copied accordingly into the Login.Default.tpl and Login.Custom.tpl files and the content from Login.tpl replaced with the following:

```
{assign var="_DefaultLoginTemplate" value=vtemplate_path('Login.Default.tpl', 'Users')}  
{assign var="_CustomLoginTemplate" value=vtemplate_path('Login.Custom.tpl', 'Users')}  
{assign var="_CustomLoginTemplateFullPath" value="layouts/v7/${_CustomLoginTemplate}"}  
  
{if file_exists(${_CustomLoginTemplateFullPath})}  
    {include file=${_CustomLoginTemplate}}  
{else}  
    {include file=${_DefaultLoginTemplate}}  
{/if}
```

If available, the Login.Custom.tpl file will be used to display the login. To include POWER CAPTCHA in the login, you need to add the following code to the login form in Login.Custom.tpl:

```
<div id="loginFormDiv">  
<form class="form-horizontal" method="POST" action="index.php">  
//...  
{assign var="clientUid" value=hash('sha256', $_SERVER['REMOTE_ADDR'])}  
<div class="group" style="margin-bottom: 10px;"  
    data-pc-sitekey=<API-KEY>  
    data-pc-client-uid="{$clientUid}">  
</div>  
//...  
</form>  
</div>
```

Finally, you need to replace <API-KEY> with a valid API key.

## POWER CAPTCHA integration backend

In order to verify the POWER CAPTCHA token, the verification now needs to be integrated into the backend. To do this, you need to adapt the following file:

```
modules/Users/actions/Login.php
```

There, the validation can simply be mapped in a preProcess function that is executed before the actual login. For this, you need to add the following code:

```
function preprocess(Vtiger_Request $request) {
    if(isset($request->get('pc-token')) && !empty($request->get('pc-token'))) {
        $curl = curl_init('https://api.power-captcha.com/pcu/v1/verify');
        curl_setopt($curl, CURLOPT_RETURNTRANSFER, TRUE);
        curl_setopt($curl, CURLOPT_POST, TRUE);

        curl_setopt($curl, CURLOPT_HTTPHEADER, array(
            'X-API-Key: <API-KEY>',
            'Content-Type: application/json'
        ));

        curl_setopt($curl, CURLOPT_POSTFIELDS, json_encode(array(
            'secret' => '<SECRET>',
            'token' => $request->get('pc-token'),
            'clientUid' => hash('sha256', $_SERVER['REMOTE_ADDR'])
        )));
    }

    $response = json_decode(curl_exec($curl));
    curl_close($curl);

    if($response->success) {
        error_log("Token was successfully verified.");
        return true;
    } else {
        error_log("Error: Token verification failed.");
        return false;
    }
} else {
    error_log("Error: Token was missing in POST request");
    return false;
}
```

Finally, you need to replace <API-KEY> and <SECRET> with valid values.