

Tutorial: Integrating Cloudflare Turnstile with Sngine

This tutorial will guide you through integrating **Cloudflare Turnstile** into your Sngine platform while keeping Google reCAPTCHA. Turnstile will be added to both the **Contact Form** and the **Sign-Up Form** for enhanced security.

1. Upload the files (If you don't want to do the manual work)

Skip step 3 if you just uploaded all the files, if you don't want to overwrite the file because you have a modified theme, continue to step 2

Download the zip and upload to your root, pay attention that this files will be overwritten

`/includes/ajax/admin/settings.php`

`/includes/class-user.php`

`/content/themes/default/templates/admin.settings.tpl`

`/content/themes/default/templates/contact.tpl`

`/content/themes/default/templates/_sign_form.tpl`

2. Add the Database

Add new options for Cloudflare Turnstile in the database.

Use the file included visit yoursite.com/installCloud.php and run the script

Or do it manually as it show bellow

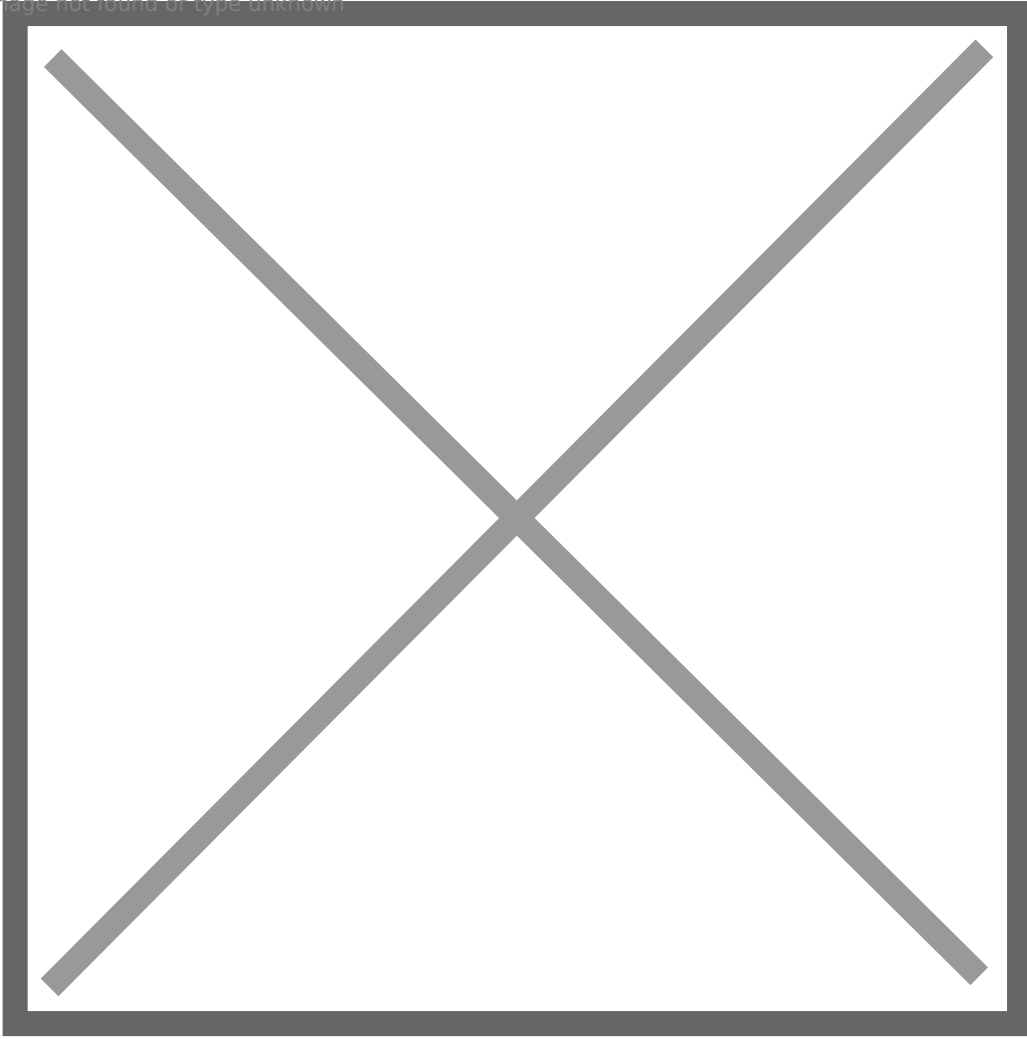
Run the following SQL queries:

```
CREATE TABLE IF NOT EXISTS `system_options` (  
  `option_name` VARCHAR(255) NOT NULL,  
  `option_value` TEXT NOT NULL,  
  PRIMARY KEY (`option_name`)  
);  
  
INSERT INTO `system_options` (`option_name`, `option_value`) VALUES ('turnstile_enabled', '0');  
INSERT INTO `system_options` (`option_name`, `option_value`) VALUES ('turnstile_site_key', '');  
INSERT INTO `system_options` (`option_name`, `option_value`) VALUES ('turnstile_secret_key', '');
```

You are done if you have uploaded all the files

Now visit yoursite.com/admincp/settings/security and look for and add you key

Image not found or type unknown



3. Or Edit the code manually

2. Admin Panel Settings

Add Turnstile Settings in Admin Settings:

Open `/content/themes/default/templates/admin.settings.tpl`

Look For

```

<div class="row form-group">
  <label class="col-md-3 form-label">
    {__("reCAPTCHA Site Key")}
  </label>
  <div class="col-md-9">
    {if !$user->_data['user_demo']}
      <input type="text" class="form-control" name="reCAPTCHA_site_key" value="{$_system['reCAPTCHA_site_key']}" />
    {else}
      <input type="password" class="form-control" value="*****" />
    {/if}
  </div>
</div>

<div class="row form-group">
  <label class="col-md-3 form-label">
    {__("reCAPTCHA Secret Key")}
  </label>
  <div class="col-md-9">
    {if !$user->_data['user_demo']}
      <input type="text" class="form-control" name="reCAPTCHA_secret_key" value="{$_system['reCAPTCHA_secret_key']}" />
    {else}
      <input type="password" class="form-control" value="*****" />
    {/if}
  </div>
</div>

<!-- success -->

```

And after this add

```

<!-- Cloudflare Turnstile Enabled -->
<div class="form-table-row">
  <div class="avatar">
    {include file='__svg_icons.tpl' icon="shield" width="40px" height="40px"}
  </div>
  <div>
    <div class="form-label h6">{__("Cloudflare Turnstile Enabled")}</div>
    <div class="form-text d-none d-sm-block">{__("Enable or disable Cloudflare Turnstile security.")}</div>
  </div>
  <div class="text-end">
    <label class="switch" for="turnstile_enabled">
      <input type="checkbox" name="turnstile_enabled" id="turnstile_enabled" {if
$_system['turnstile_enabled']}checked{/if}>
      <span class="slider round"></span>
    </label>
  </div>
</div>

```

```
<!-- Turnstile Site Key -->
<div class="row form-group">
    <label class="col-md-3 form-label">__("Turnstile Site Key")</label>
    <div class="col-md-9">
        <input type="text" class="form-control" name="turnstile_site_key"
value="{{$system['turnstile_site_key']}}">
    </div>
</div>

<!-- Turnstile Secret Key -->
<div class="row form-group">
    <label class="col-md-3 form-label">__("Turnstile Secret Key")</label>
    <div class="col-md-9">
        <input type="text" class="form-control" name="turnstile_secret_key"
value="{{$system['turnstile_secret_key']}}">
    </div>
</div>
```

3. Save Turnstile Settings

In `includes/ajax/admin/settings.php`, under the **security** case, add:

```
case 'security':
    $_POST['turnstile_enabled'] = (isset($_POST['turnstile_enabled'])) ? '1' : '0';

    update_system_options([
        'turnstile_enabled' => secure($_POST['turnstile_enabled']),
        'turnstile_site_key' => secure($_POST['turnstile_site_key']),
        'turnstile_secret_key' => secure($_POST['turnstile_secret_key']),
    ]);
    break;
```

4. Add Turnstile to Forms (I added after the Recaptcha code)

Contact Form (contact.tpl)

```
{if $system['turnstile_enabled']}  
  <div class="form-group">  
    <script src="https://challenges.cloudflare.com/turnstile/v0/api.js" async defer></script>  
    <div class="cf-turnstile" data-sitekey="{ $system['turnstile_site_key']}"></div>  
  </div>  
{/if}
```

Sign-Up Form (_sign_form.tpl)

```
{if $system['turnstile_enabled']}  
  <div class="form-group">  
    <script src="https://challenges.cloudflare.com/turnstile/v0/api.js" async defer></script>  
    <div class="cf-turnstile" data-sitekey="{ $system['turnstile_site_key']}"></div>  
  </div>  
{/if}
```

5. Verify Turnstile on Submission

In `class-user.php`, update the verification logic:

Look For

```
$custom_fields = $this->set_custom_fields($args);

/* check reCAPTCHA */

if ($system['reCAPTCHA_enabled'] && $args['from_web']) {

    $recaptcha = new \ReCaptcha\ReCaptcha($system['reCAPTCHA_secret_key'], new \ReCaptcha\RequestMethod

    $resp = $recaptcha->verify($args['g-recaptcha-response'], get_user_ip());

    if (!$resp->isSuccess()) {

        throw new ValidationException(__("The security check is incorrect. Please try again"));

    }

}
```

And after that add

```
/* Check Cloudflare Turnstile */
if ($system['turnstile_enabled'] && $from_web) {
    if (empty($_POST['cf-turnstile-response'])) {
        throw new ValidationException(__("Please complete the Cloudflare security check."));
    }

    $verify_url = "https://challenges.cloudflare.com/turnstile/v0/siteverify";
    $data = [
        'secret' => $system['turnstile_secret_key'],
        'response' => $_POST['cf-turnstile-response'],
        'remoteip' => get_user_ip(),
    ];

    $options = [
        'http' => [
            'header' => "Content-type: application/x-www-form-urlencoded\r\n",
            'method' => 'POST',
            'content' => http_build_query($data),
        ]
    ];

    $context = stream_context_create($options);
    $response = file_get_contents($verify_url, false, $context);
```

```
$result = json_decode($response);
```

```
if (!$result->success) {
```

```
    throw new ValidationException(__("The Cloudflare Turnstile check failed. Please try again."));
```

```
}
```

```
}
```

🎉 Congrats

You've successfully integrated **Cloudflare Turnstile** into your Sngine platform alongside **Google reCAPTCHA**. Now your platform is doubly protected against spam and bot attacks!

Need Help? Visit the [community forums](#).

Revision #2

Created 14 January 2025 15:30:43 by SimplyJane

Updated 14 January 2025 15:32:03 by SimplyJane