

Example - API in PHP

<https://campus.barracuda.com/doc/79464623/>

The following is an example of how you can use the Security Awareness Training API written in PHP.

```
<?php
/*
 * This script shows how to authenticate and get an access token, then use
the access token to retrieve a campaign, and that campaign's results.
 *
 * This program assumes that you will have results for your first campaign to
show. If not, you should modify to use a campaign ID for a campaign that
does have results/stats to display.
 * You will need to adjust the values for the following constants:
 *
 *      API_URL - change 'phishline_example' to the value for your instance.
Usually, this is 'phishline_yourcompanyname'.
 *      AUTH_NAME - This will be the user account which has been given API
access.
 *      AUTH_PW - The password for AUTH_NAME.
 *      AUTH_API_KEY - the API key will be created by your administrator in
from 'System' -> 'API Keys' menu item.
 *
 */
namespace Barracuda\PhishLine\API;
if (file_exists('.example.env.php')) {
    print("Loading authentication constants from .example.env.php...\n");
    // set the 4 required constants from .example.env.php.
    require_once('.example.env.php');
} else {
    print("Loading default authentication constants...\n");
    // Otherwise, change the constants here.
    define('API_URL',
'https://api.phishline.com/phishline_example/rest/');
    define('AUTH_NAME', 'MyTestUser');
    define('AUTH_PW', 'MyTestPassword');
    define('AUTH_SSO_TYPE', '');
    define('AUTH_SSO_CONFIG_ID', '');
    define('AUTH_API_KEY', 'example-abcd-1234-defg-abcdabcd12345678');
}
// Do not change these items.
const AUTH_ENDPOINT = 'authenticate';
const CAMPAIGN_ENDPOINT = 'campaigns';
const CAMPAIGN_RESULTS_ENDPOINT = 'campaignresults';
// Begin the API calls, and print retrieved data to screen.
```

```
ApiUseExample::go();

// exit the program.
exit;

/***
 * ApiUseExample - example for authentication and usage of campaign related
 * stat endpoints for PhishLine API.
 *
 */
class ApiUseExample {

    /**
     * go - run the example to retrieve an access token, all campaigns, a
     * single campaign, stats and results from a single campaign.
     *
     * @static
     * @access public
     * @return void
     */
    public static function go() {
        print ("Step 1: get an access token.\n");
        $access_token = ApiUseExample::getAccessToken();
        print("Step 2: get all the campaigns.\n");
        $all_campaigns = ApiUseExample::getCampaigns($access_token);
        print_r($all_campaigns);
        print("Step 3: Get a single campaign ID from the previous call.\n");
        $campaign_id = $all_campaigns['data'][0]['id'];
        print("\tExample campaign ID is: ".$campaign_id."\n");
        print("Step 4. get a single campaign by id. For example purposes only.
              \t You could just use the campaign_id from Step 3, and skip right to
              step 5.

              \t This is just an example of using the endpoint to retrieve a single
              result if you know the campaign ID you want.\n");
        $single_campaign = ApiUseExample::getCampaigns($access_token,
$campaign_id);
        print_r($single_campaign);
        print("Step 5. get all raw results for a single campaign.\n");
        $single_campaign_raw_stats =
ApiUseExample::getCampaignResults($access_token, $campaign_id);
        print_r($single_campaign_raw_stats);
        print("\n\nExample complete!\n\n");
    } // End function go
/***
 * getAccessToken - get an access token from the authenticate endpoint.
 *
```

```
* @static
* @access public
* @return string the access token
*/
public static function getAccessToken() {
    $ch = curl_init();
    curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 0);
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 0);
    curl_setopt($ch, CURLOPT_URL, API_URL.AUTH_ENDPOINT);
    curl_setopt($ch, CURLOPT_CUSTOMREQUEST, 'POST');
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
    curl_setopt($ch, CURLOPT_HTTPHEADER, [
        'Content-Type: application/json; charset=utf-8',
    ]);
    $json_array = [
        'api_key' => AUTH_API_KEY,
        'bof_ticket_pw' => AUTH_PW,
        'bof_ticket_user' => AUTH_NAME,
        'sso' => AUTH_SSO_TYPE,
        'bof_sso_config_id' => AUTH_SSO_CONFIG_ID,
    ];
    $body = json_encode($json_array);
    curl_setopt($ch, CURLOPT_POST, 1);
    curl_setopt($ch, CURLOPT_POSTFIELDS, $body);
    $response = curl_exec($ch);
    if (!$response) {
        die('Error: "' . curl_error($ch) . '" - Code: ' . curl_errno($ch));
    }

    $vals = json_decode($response, TRUE);
    if (isset($vals['data']['access_token'])) {
        print("Access token created successfully: ".
$vals['data']['access_token'] . "\n");
        curl_close($ch);
        return $vals['data']['access_token'];
    } else {
        echo 'HTTP Status Code: ' . curl_getinfo($ch, CURLINFO_HTTP_CODE) .
PHP_EOL;
        echo 'Response Body: ' . $response . PHP_EOL;
        print("ERROR: Something went wrong in ".__FUNCTION__. ". Response was:
\n");
        curl_close($ch);
        die;
    }
}

} // End function getAccessToken
```

```
/**  
 * getCampaigns - get all campaigns in your instance, or a single campaign  
if campaign_id is passed.  
 *  
 * @param string $access_token (required) The access token acquired from  
the authenticate endpoint.  
 * @param int $campaign_id (optional) The campaign ID. If no campaign ID  
is passed, all results are retrieved.  
 * @static  
 * @access public  
 * @return array results transformed to an associative array  
*/  
public static function getCampaigns($access_token, $campaign_id=NULL) {  
    $ch = curl_init();  
    curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 0);  
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 0);  
    // add the campaign_id to the endpoint if present. If not, we retrieve  
all campaigns.  
    if ($campaign_id != NULL) {  
        curl_setopt($ch, CURLOPT_URL,  
API_URL.CAMPAIGN_ENDPOINT.'/'.$campaign_id));  
    } else {  
        curl_setopt($ch, CURLOPT_URL, API_URL.CAMPAIGN_ENDPOINT);  
    }  
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);  
    curl_setopt($ch, CURLOPT_HTTPHEADER, [  
        'Content-Type: application/json; charset=utf-8',  
        'Authorization: Bearer '.$access_token,  
    ]);  
    $response = curl_exec($ch);  
    if (!$response) {  
        die('Error: "' . curl_error($ch) . '" - Code: ' . curl_errno($ch));  
    }  
  
    $vals = json_decode($response, TRUE);  
    if (isset($vals['data'][0]['id'])) {  
        print("Campaigns found. Returning all campaigns.\n");  
        curl_close($ch);  
        return $vals;  
    } else {  
        echo 'HTTP Status Code: ' . curl_getinfo($ch, CURLINFO_HTTP_CODE) .  
PHP_EOL;  
        echo 'Response Body: ' . $response . PHP_EOL;  
        print("ERROR: Something went wrong in ".__FUNCTION__. "\n");  
        curl_close($ch);  
        die;  
    }  
}
```

```
        }
    } // End function getCampaigns
/**
 * getCampaignResults - get raw results of your campaign.
 *
 * @param string $access_token (required) The access token acquired from
the authenticate endpoint.
 * @param int $campaign_id (required) The campaign ID.
 * @static
 * @access public
 * @return array results transformed to an associative array
 */
public static function getCampaignResults($access_token, $campaign_id) {
    $ch = curl_init();
    curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 0);
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 0);
    curl_setopt($ch, CURLOPT_URL,
API_URL.CAMPAIGN_RESULTS_ENDPOINT.'/'.$campaign_id));
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
    curl_setopt($ch, CURLOPT_HTTPHEADER, [
        'Content-Type: application/json; charset=utf-8',
        'Authorization: Bearer '.$access_token,
    ]);
    $response = curl_exec($ch);
    if (!$response) {
        die('Error: "' . curl_error($ch) . '" - Code: ' . curl_errno($ch));
    }

    $vals = json_decode($response, TRUE);
    if (isset($vals['data'][0])) {
        print("Campaign Results found. This is all raw results.\n");
        curl_close($ch);
        return $vals;
    } else {
        echo 'HTTP Status Code: ' . curl_getinfo($ch, CURLINFO_HTTP_CODE) .
PHP_EOL;
        echo 'Response Body: ' . $response . PHP_EOL;
        print("ERROR: Something went wrong in ".__FUNCTION__. "\n");
        curl_close($ch);
        die;
    }
} // End function getCampaignResults

} // End class ApiUseExample
```

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