

Example - API in PHP

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

The following is an example of how you can use the Barracuda PhishLine 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;
// Change these items. Note: "phishline_example" is not a valid instance.
You will need to replace it with your instance name.
const API_URL = 'https://api.phishline.com/phishline_example/rest/';
const AUTH_NAME = 'MyTestUser';
const AUTH_PW = 'adsfafdf**Zx3&';
const AUTH_API_KEY = '82aac828-abcd-1234-defg-abcdabcd12345678';

// Do not change these items.
const AUTH_ENDPOINT = 'authenticate';
const CAMPAIGN_ENDPOINT = 'campaigns';
const CAMPAIGN_RESULTS_ENDPOINT = 'campaignresults';
const CAMPAIGN_RESULTSTATS_ENDPOINT = 'campaignresultstats';

// 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
```

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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 computed/summary campaign stats for a single
campaign.\n");
    $single_campaign_summary_stats =
ApiUseExample::getCampaignResultStats($access_token, $campaign_id);
    print_r($single_campaign_summary_stats);
    print("Step 6. get the first page of raw results for a single
campaign.\n");
    $after_id=0;
    $single_campaign_raw_stats =
ApiUseExample::getCampaignResults($access_token, $campaign_id, $after_id);
    // This can return up to 5,000 lines at a time lets just show summary
data and first and last id's from each query
    $totalRowCount = $single_campaign_raw_stats['totalRowCount'];
    print("Total Row Count: $totalRowCount\n");
    $pageRowCount = $single_campaign_raw_stats['pageRowCount'];
    print("Page Row Count: $pageRowCount\n");
    $remainingRowCount = $single_campaign_raw_stats['remainingRowCount'];
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    print("Remaining Row Count: $remainingRowCount\n");
    $maxIdReturned = $single_campaign_row_stats['maxIdReturned'];
    print("Max Outbound Id Returned: $maxIdReturned\n");
    print("Actual Row Count: " .
count($single_campaign_row_stats['data']) . "\n");
    print("First Outbound id: " .
$single_campaign_row_stats['data'][0]['outboundid'] . " ... ");
    print("Last Outbound id: " .
$single_campaign_row_stats['data'][$single_campaign_row_stats['pageRowCount']
-1]['outboundid'] );
    print(", TotalRowCount: $totalRowCount, PageRowCount: $pageRowCount,
RemainingRowCount: $remainingRowCount\n");
    // Loop through until all the records are retrieved (remainingRowCount
equals zero)
    while ($remainingRowCount) {
        $single_campaign_row_stats =
ApiUseExample::getCampaignResults($access_token, $campaign_id,
$maxIdReturned);
        $pageRowCount = $single_campaign_row_stats['pageRowCount'];
        $remainingRowCount = $single_campaign_row_stats['remainingRowCount'];
        $maxIdReturned = $single_campaign_row_stats['maxIdReturned'];
        print("First Outbound id: " .
$single_campaign_row_stats['data'][0]['outboundid'] . " ... ");
        print("Last Outbound id: " .
$single_campaign_row_stats['data'][$single_campaign_row_stats['pageRowCount']
-1]['outboundid'] );
        print(", TotalRowCount: $totalRowCount, PageRowCount: $pageRowCount,
RemainingRowCount: $remainingRowCount\n");
    }
// This will dump all the id and is an example of how to access each element
of the record
// for ($i=0; $i<$single_campaign_row_stats['pageRowCount']; $i++) {
//     print("Outbound id: " .
$single_campaign_row_stats['data'][$i]['outboundid'] . "\n");
//     print("Recipient Email Address: " .
$single_campaign_row_stats['data'][$i]['to'] . "\n");
//     ...
// }
// Raw Dump all the results. WARNING: This could be a lot of data
// print_r($single_campaign_row_stats);
// print("\n\nExample complete!\n\n");
} // End function go
/**
 * getAccessToken - get an access token from the authenticate endpoint.
 *
 * @static

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* @access public
* @return string the access token
*/
public static function getAccessToken() {
    $ch = curl_init();
    curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, FALSE);
    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
    ];
    $body = json_encode($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.
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    * @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, FALSE);
    // 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.'/'.$intval($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
/**
 * getCampaignResultStats
 *
 * @param string $access_token (required) The access token acquired from
the authenticate endpoint.
 * @param int $campaign_id (required) The campaign ID.

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* @static
* @access public
* @return array results transformed to an associative array
*/
public static function getCampaignResultStats($access_token, $campaign_id)
{
    $ch = curl_init();
    curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, FALSE);
    curl_setopt($ch, CURLOPT_URL,
API_URL.CAMPAIGN_RESULTSTATS_ENDPOINT.'/'.$intval($campaign_id));
    curl_setopt($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($vals['data'][0])) {
        print("Campaign Result Stats found. This is a summary of results.\n");
        curl_close($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 getCampaignResultStats
/**
 * 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,
$after_id) {
    $ch = curl_init();

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    curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, FALSE);
    curl_setopt($ch, CURLOPT_URL,
API_URL.CAMPAIGN_RESULTS_ENDPOINT.'/'.$intval($campaign_id)..'/'.$intval($after_
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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