

HOW TO USE WEB SERVICE IN FALCON

The core of using Web Services in Falcon is through the PHP BL. How the web services will be used, and what codes or libraries will be used are based on the user's itself. In the examples below, we'll be using PHP cURL as a function to request for web service (client):

Web Service Client

Using GET parameter:

```
//sample using GET
$service_url = 'http://www.webservice.net/country.asmx/GetCountryByCountryCode?CountryCode=MY';
$curl = curl_init($service_url);
curl_setopt($curl, CURLOPT_RETURNTRANSFER, true);

$curl_response = curl_exec($curl);
curl_close($curl);

echo $curl_response;
```

Using POST parameter:

```
//sample using POST
$service_url = 'http://www.webservice.net/country.asmx/GetCountryByCountryCode?CountryCode=MY';
$curl = curl_init($service_url);
curl_setopt($curl, CURLOPT_RETURNTRANSFER, true);
curl_setopt($curl, CURLOPT_POST, true);
curl_setopt($curl, CURLOPT_POSTFIELDS, 'CountryCode=MY');

$curl_response = curl_exec($curl);
curl_close($curl);

echo $curl_response;
```

***Note:** Since the example is using PHP's cURL function, you'll have to enable the php_curl extension in PHP.ini. [Click here](#) for details of the function.

Web Service Server

If by any chance you would like to create a web service server, and you would like to do it in Falcon, you can also use the PHP BL. Below is an example of creating web service's server in Falcon:

Sample PHP BL:

```
/* soak in the passed variable or set our own */
$format = strtolower($_GET['format']) == 'json' ? 'json' : 'xml'; //xml is the default

$posts[0]['post']['post_title'] = 'SSLmatic SSL Certificate Giveaway Winners';
$posts[0]['post']['guid'] = 'http://davidwalsh.name/?p=2304';
$posts[1]['post']['post_title'] = 'MooTools FileManager';
$posts[1]['post']['guid'] = 'http://davidwalsh.name/?p=2288';
$posts[2]['post']['post_title'] = 'PHPTVDB: Using PHP to Retrieve TV Show Information';
$posts[2]['post']['guid'] = 'http://davidwalsh.name/?p=2266';

/* output in necessary format */
if($format == 'json') {
    header('Content-type: application/json');
    echo json_encode(array('posts'=>$posts));
}
else {
    header('Content-type: text/xml');
    echo '<posts>';
    foreach($posts as $index => $post) {
        if(is_array($post)) {
            foreach($post as $key => $value) {
                echo '<',$key,'>';
                if(is_array($value)) {
                    foreach($value as $tag => $val) {
                        echo '<',$tag,'>',htmlentities($val),'</',$tag,'>';
                    }
                }
                echo '</',$key,'>';
            }
        }
    }
    echo '</posts>';
}
```

URL (1):

http://your.domain.com/bl_generator.php?blname=YOUR_BL_NAME

URL (2):

http://your.domain.com/bl_generator.php?blname=YOUR_BL_NAME&format=json

Full Example

This example show how to send XML data through Web Service and viewing back the sent data:

1. Create a Web Service client using PHP BL (CURL_XML), with the following code:

```
$xml_data = '<INFO>
    <name>John Conner</name>
    <age>25</age>
    <address>Malaysia</address>
</INFO>';

$URL = "https://localhost/corrad/bl_generator.php?blname=CURL_VIEW";

$ch = curl_init($URL);
curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 0);
curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 0);
curl_setopt($ch, CURLOPT_POST, 1);
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type: text/xml'));
curl_setopt($ch, CURLOPT_POSTFIELDS, "$xml_data");
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
$output = curl_exec($ch);
curl_close($ch);

echo $output;
```

2. Create a Web Service server using PHP BL (CURL_VIEW), with the following code:

```
$xml_post = file_get_contents('php://input');

print_r($xml_post);
```

3. To call the Web Service, either set a trigger in page or call it directly using URL:
 - http://your.domain.com/bl_generator.php?blname=CURL_XML