

Server-Side Request Forgery (SSRF) in chocoboxxx/peertube



Reported on Dec 30th 2021

Description

There is an SSRF vulnerability in PeerTube, registered users outside of the external network can issue GET requests into the internal network via the Import With URL option.

Proof of Concept

Setting a Python3 server on 8080

```
python3 -m http.server 8080
```

And importing this URL

```
http://127.0.0.1:8080
```

Will cause a request to be issued to localhost

```
gitpod /workspace/PeerTube $ python3 -m http.server 8080
Serving HTTP on 0.0.0.0 port 8080 (http://0.0.0.0:8080/) ...
127.0.0.1 - - [30/Dec/2021 10:03:31] "HEAD / HTTP/1.1" 200 -
127.0.0.1 - - [30/Dec/2021 10:03:31] "GET / HTTP/1.1" 200 -
```

Impact

External attackers can port scan and map the internal network. They can also escalate the impact of SSRF to disclose videos stored on web servers on the internal network. For example, if a sensitive file is stored in another server `http://192.168.0.1/video.mp4`, the URL to reveal the video present.

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Recommended Fix

The <https://www.npmjs.com/package/ipaddr.js/v/1.1.0> package can be used to determine if an IP address is public or private instead of trying to catch all possible private IP addresses.

```
var ipAddr = require('ipaddr.js')

// BAD
console.log(ipAddr.parse("127.0.0.1").range())
console.log(ipAddr.parse("192.168.0.1").range())
console.log(ipAddr.parse("::ffff:7f00:2").range())
console.log(ipAddr.parse("fd12:3456:789a:1::1").range())

// GOOD
console.log(ipAddr.parse("142.251.12.138").range())
```

unicast = good.

```
loopback
private
ipv4Mapped
uniqueLocal
unicast
```

Occurrences

TS import.ts L132L138

References

- [Details on SSRF](#)

CVE
CVE-2022-0132
(Published)

Vulnerability Type
CVE-2019: Server Side Request Forgery (SSRF)

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CWE-918: Server-Side Request Forgery (SSRF)

Severity

Medium (4.8)

Visibility

Public

Status

Fixed

Found by



haxatron

@haxatron

pro ▼

Fixed by



chocobozzz

@chocobozzz

unranked ▼

This report was seen 401 times.

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

haxatron modified the report a year ago

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Researcher

Found a improper access control bug here <https://huntr.dev/bounties/80aabdc1-89fe-47b8-87ca-9d68107fc0b4/>

We have contacted a member of the **chocobozzz/peertube** team and are waiting to hear back
a year ago

We have sent a follow up to the **chocobozzz/peertube** team. We will try again in 7 days.
a year ago

chocobozzz validated this vulnerability a year ago

haxatron has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

chocobozzz marked this as fixed in **Not released yet** with commit **7b54a8** a year ago

chocobozzz has been awarded the fix bounty ✓

This vulnerability will not receive a CVE ✗

import.ts#L132L138 has been validated ✓

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